

# Granite<sup>®</sup> Standard

**guarantee 10 years**  
free of chromates and heavy metals

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                            |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Properties          | <ul style="list-style-type: none"> <li>• Good corrosion resistance</li> <li>• Good formability</li> <li>• Thermosetting paint</li> <li>• Surface treatment and paint: free of hexavalent chromium and heavy metals</li> </ul>                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                            |
| Applications        | <b>Basic coating for outdoor applications (cladding, roofing and accessories, air conditioners)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                            |
| Description         | Thickness <sup>(1)</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 25 microns                                                                                                                 |
|                     | Composition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Front: 5 microns primer + 20 microns top coat<br>Back: 5, 7, 10 or 12 microns backing coat<br>Double-side finish available |
|                     | Gloss (Gardner 60°) <sup>(1)</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 30 GU<br>Other gloss levels on request                                                                                     |
|                     | Colours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Colour palette<br>Other colours on request                                                                                 |
|                     | Appearance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Smooth                                                                                                                     |
|                     | Temporary protection (optional)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Self-adhesive film or heat-sealed film                                                                                     |
|                     | Adhesion of the coating (T-bend)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ≤ 2 T                                                                                                                      |
| Performance         | Resistance to cracking on bending (T-bend)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ≤ 3 T                                                                                                                      |
|                     | Impact resistance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 18 J                                                                                                                       |
|                     | Surface "pencil" hardness                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | HB to H                                                                                                                    |
|                     | Clemen scratch resistance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ≥ 2 kg                                                                                                                     |
|                     | Corrosion resistance:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                            |
|                     | • Salt spray test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 360 hours                                                                                                                  |
|                     | • Corrosion resistance category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | RC3                                                                                                                        |
|                     | Condensation resistance (QCT)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1000 hours                                                                                                                 |
|                     | UV resistance:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                            |
|                     | • QUV (UVA + H <sub>2</sub> O) test (2000 hours)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ΔE ≤ 5; GR ≥ 30%                                                                                                           |
|                     | • UV resistance category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | RUV2                                                                                                                       |
|                     | Fire behaviour classification (EN 13501-1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | A1                                                                                                                         |
|                     | Resistance to acids and bases                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Good                                                                                                                       |
| Automatic guarantee | Resistance to solvents:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                            |
|                     | • Aliphatics and alcohols                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Very good                                                                                                                  |
|                     | • Ketones                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Low                                                                                                                        |
|                     | • Aromatics                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Good to very good                                                                                                          |
|                     | Resistance to mineral oils                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Very good                                                                                                                  |
| Remarks             | Maximum continuous operating temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 100°C                                                                                                                      |
|                     | • Non-perforation of the sheet metal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ≤ 10 years, depending on the external environment                                                                          |
|                     | • Non-delamination of the paint                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ≤ 10 years, depending on the external environment                                                                          |
|                     | • Aesthetic appearance (ΔE ≤ 5; Gloss retention ≥ 30%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ≤ 5 years, depending on the geographic location and the paint colour category                                              |
|                     | <p>These performance characteristics refer specifically to metallic coating Z225 and Optigal<sup>®</sup> ZM100 (guaranteed minimum).<br/>If any product (film, oil, foam, glue, paint etc) is to be applied after coil delivery, compatibility with the coating needs to be checked first.<br/>Although we take great care to reproduce the same aesthetic aspect on each coil, ArcelorMittal cannot guarantee the visual consistency from one single order item to another. Consequently, you need to consider placing one single order for one building; standard samples can only serve as a guide.</p> |                                                                                                                            |

(1) Nominal value, tolerance according to EN 10169

# Granite<sup>®</sup> HD

**guarantee 10 years**  
free of chromates and heavy metals

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                            |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Properties          | <ul style="list-style-type: none"> <li>• Good UV resistance</li> <li>• Good corrosion resistance</li> <li>• Good formability</li> <li>• Thermosetting paint</li> <li>• Surface treatment and paint: free of hexavalent chromium and heavy metals</li> </ul>                                                                                                                                                                                                                                                                                                                                                |                                                                                                                            |
| Applications        | <b>External uses: construction (cladding, roofing and accessories, insulated panels)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                            |
| Description         | Thickness <sup>(1)</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 25 microns                                                                                                                 |
|                     | Composition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Front: 5 microns primer + 20 microns top coat<br>Back: 5, 7, 10 or 12 microns backing coat<br>Double-side finish available |
|                     | Gloss (Gardner 60°) <sup>(1)</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 30 GU<br>Other gloss levels on request                                                                                     |
|                     | Colours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Colour palette<br>Other colours on request                                                                                 |
|                     | Appearance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Smooth, grained                                                                                                            |
|                     | Temporary protection (optional)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Self-adhesive film or heat-sealed film on smooth coating                                                                   |
|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                            |
| Performance         | Adhesion of the coating (T-bend)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ≤ 1 T                                                                                                                      |
|                     | Resistance to cracking on bending (T-bend)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ≤ 2 T                                                                                                                      |
|                     | Impact resistance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 18 J                                                                                                                       |
|                     | Surface "pencil" hardness                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | HB to H                                                                                                                    |
|                     | Clemen scratch resistance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ≥ 2 kg                                                                                                                     |
|                     | Corrosion resistance:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                            |
|                     | • Salt spray test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 360 hours                                                                                                                  |
|                     | • Corrosion resistance category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | RC3                                                                                                                        |
|                     | Condensation resistance (QCT)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1000 hours                                                                                                                 |
|                     | UV resistance:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                            |
|                     | • QUV (UVA + H <sub>2</sub> O) test (2000 hours)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ΔE ≤ 3; GR ≥ 60%                                                                                                           |
|                     | • UV resistance category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | RUV3                                                                                                                       |
|                     | Fire behaviour classification (EN 13501-1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | A1                                                                                                                         |
|                     | Resistance to acids and bases                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Good to very good                                                                                                          |
|                     | Resistance to solvents:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                            |
|                     | • Aliphatics and alcohols                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Very good                                                                                                                  |
|                     | • Ketones                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Low                                                                                                                        |
|                     | • Aromatics                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Good to very good                                                                                                          |
|                     | Resistance to mineral oils                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Very good                                                                                                                  |
|                     | Maximum continuous operating temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 100°C                                                                                                                      |
| Automatic guarantee | <ul style="list-style-type: none"> <li>• Non-perforation of the sheet metal ≤ 10 years, depending on the external environment</li> <li>• Non-delamination of the paint ≤ 10 years, depending on the external environment</li> <li>• Aesthetic appearance (ΔE ≤ 3; Gloss retention ≥ 50%) ≤ 5 years, depending on the geographic location and the paint colour category</li> </ul>                                                                                                                                                                                                                          |                                                                                                                            |
| Remarks             | <p>These performance characteristics refer specifically to metallic coating Z225 and Optigal<sup>®</sup> ZM100 (guaranteed minimum).<br/>If any product (film, oil, foam, glue, paint etc) is to be applied after coil delivery, compatibility with the coating needs to be checked first.<br/>Although we take great care to reproduce the same aesthetic aspect on each coil, ArcelorMittal cannot guarantee the visual consistency from one single order item to another. Consequently, you need to consider placing one single order for one building; standard samples can only serve as a guide.</p> |                                                                                                                            |

*(1) Nominal value, tolerance according to EN 10169*

# Granite<sup>®</sup> HDS

**guarantee 20 years**  
 free of chromates and heavy metals

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                             |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Properties          | <ul style="list-style-type: none"> <li>• Very good UV resistance</li> <li>• Very good corrosion resistance</li> <li>• Very good formability</li> <li>• Thermosetting paint</li> <li>• Surface treatment and paint: free of hexavalent chromium and heavy metals</li> </ul>                                                                                                                                                                                                                                                                                                                                |                                                                                                                             |
| Applications        | <b>External uses: construction (cladding, roofing and accessories)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                             |
| Description         | Thickness <sup>(1)</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 35 microns                                                                                                                  |
|                     | Composition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Front: 15 microns primer + 20 microns top coat<br>Back: 5, 7, 10 or 12 microns backing coat<br>Double-side finish available |
|                     | Gloss (Gardner 60°) <sup>(1)</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 30 GU<br>Other gloss levels on request                                                                                      |
|                     | Colours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Colour palette<br>Other colours on request                                                                                  |
|                     | Appearance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Smooth, grained                                                                                                             |
|                     | Temporary protection (optional)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Self-adhesive film or heat-sealed film on smooth coating                                                                    |
|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                             |
| Performance         | Adhesion of the coating (T-bend)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ≤ 1 T                                                                                                                       |
|                     | Resistance to cracking on bending (T-bend)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ≤ 2 T                                                                                                                       |
|                     | Impact resistance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 18 J                                                                                                                        |
|                     | Surface "pencil" hardness                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | HB to H                                                                                                                     |
|                     | Clemen scratch resistance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ≥ 2.2 kg                                                                                                                    |
|                     | Corrosion resistance:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                             |
|                     | • Salt spray test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 500 hours                                                                                                                   |
|                     | • Corrosion resistance category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | RC4                                                                                                                         |
|                     | Condensation resistance (QCT)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1500 hours                                                                                                                  |
|                     | UV resistance:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                             |
|                     | • QUV (UVA + H <sub>2</sub> O) test (2000 hours)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ΔE ≤ 2; GR ≥ 80%                                                                                                            |
|                     | • UV resistance category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | RUV4                                                                                                                        |
|                     | Fire behaviour classification (EN 13501-1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | A1                                                                                                                          |
|                     | Resistance to acids and bases                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Good to very good                                                                                                           |
|                     | Resistance to solvents:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                             |
|                     | • Aliphatics and alcohols                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Very good                                                                                                                   |
|                     | • Ketones                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Low                                                                                                                         |
|                     | • Aromatics                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Good to very good                                                                                                           |
|                     | Resistance to mineral oils                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Very good                                                                                                                   |
|                     | Maximum continuous operating temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 100°C                                                                                                                       |
| Automatic guarantee | <ul style="list-style-type: none"> <li>• Non-perforation of the sheet metal ≤ 20 years, depending on the external environment</li> <li>• Non-delamination of the paint ≤ 20 years, depending on the external environment</li> <li>• Aesthetic appearance (ΔE ≤ 3; Gloss retention ≥ 80%) ≤ 5 years, depending on the geographic location and the paint colour category</li> </ul>                                                                                                                                                                                                                         |                                                                                                                             |
| Remarks             | <p>These performance characteristics refer specifically to metallic coating Z225 and Optigal<sup>®</sup> ZM120 (guaranteed minimum).</p> <p>If any product (film, oil, foam, glue, paint etc) is to be applied after coil delivery, compatibility with the coating needs to be checked first. Although we take great care to reproduce the same aesthetic aspect on each coil, ArcelorMittal cannot guarantee the visual consistency from one single order item to another. Consequently, you need to consider placing one single order for one building; standard samples can only serve as a guide.</p> |                                                                                                                             |

*(1) Nominal value, tolerance according to EN 10169*

# Granite<sup>®</sup> HDX

guarantee **35** years  
 free of chromates and heavy metals

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Properties                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <ul style="list-style-type: none"> <li>• Very good UV resistance</li> <li>• Excellent corrosion resistance</li> <li>• Very good formability</li> <li>• Robust coating</li> <li>• Thermosetting paint</li> <li>• Surface treatment and paint: free of hexavalent chromium and heavy metals</li> </ul> |                                                                                                                                                                             |
| Applications                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>External uses in severe environments: profiles, sandwich panels for roofing and cladding, building materials (tiles, guttering etc).</b><br><b>Internal uses in aggressive indoor environments (swimming pools, industrial buildings etc)</b>                                                     |                                                                                                                                                                             |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Thickness <sup>(1)</sup>                                                                                                                                                                                                                                                                             | 55 microns                                                                                                                                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Composition                                                                                                                                                                                                                                                                                          | Front: 25 microns primer + 30 microns top coat<br>Back: 10 or 12 microns backing coat recommended<br>25 microns backing coat also available<br>Double-side finish available |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Gloss (Gardner 60°) <sup>(1)</sup>                                                                                                                                                                                                                                                                   | 30 GU<br>Other gloss levels on request                                                                                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Colours                                                                                                                                                                                                                                                                                              | Colour palette<br>Other colours on request                                                                                                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Appearance                                                                                                                                                                                                                                                                                           | Grained                                                                                                                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Temporary protection (optional)                                                                                                                                                                                                                                                                      | Not applicable                                                                                                                                                              |
| Performance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Adhesion of the coating (T-bend)                                                                                                                                                                                                                                                                     | ≤ 1 T                                                                                                                                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Resistance to cracking on bending (T-bend)                                                                                                                                                                                                                                                           | ≤ 1.5 T                                                                                                                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Impact resistance                                                                                                                                                                                                                                                                                    | 18 J                                                                                                                                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Clemen scratch resistance                                                                                                                                                                                                                                                                            | ≥ 3 kg                                                                                                                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Corrosion resistance:                                                                                                                                                                                                                                                                                |                                                                                                                                                                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | • Salt spray test                                                                                                                                                                                                                                                                                    | 700 hours                                                                                                                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | • Corrosion resistance category                                                                                                                                                                                                                                                                      | RC5+ for colour categories 1 to 4, RC5 for colour category 5                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Condensation resistance:                                                                                                                                                                                                                                                                             |                                                                                                                                                                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | • QCT test                                                                                                                                                                                                                                                                                           | 1500 hours                                                                                                                                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | • Corrosion protection (interior) category                                                                                                                                                                                                                                                           | CPI4                                                                                                                                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | UV resistance:                                                                                                                                                                                                                                                                                       |                                                                                                                                                                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | • QUV (UVA + H <sub>2</sub> O) test (2000 hours)                                                                                                                                                                                                                                                     | ΔE ≤ 2; GR ≥ 80%                                                                                                                                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | • UV resistance category                                                                                                                                                                                                                                                                             | RUV4                                                                                                                                                                        |
| Automatic guarantee                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Fire behaviour classification (EN 13501-1)                                                                                                                                                                                                                                                           | A1                                                                                                                                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Resistance to acids and bases                                                                                                                                                                                                                                                                        | Good to very good                                                                                                                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Resistance to solvents:                                                                                                                                                                                                                                                                              |                                                                                                                                                                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | • Aliphatics and alcohols                                                                                                                                                                                                                                                                            | Very good                                                                                                                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | • Ketones                                                                                                                                                                                                                                                                                            | Low                                                                                                                                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | • Aromatics                                                                                                                                                                                                                                                                                          | Good to very good                                                                                                                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Resistance to mineral oils                                                                                                                                                                                                                                                                           | Very good                                                                                                                                                                   |
| Remarks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Maximum continuous operating temperature                                                                                                                                                                                                                                                             | 100°C                                                                                                                                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | • Non-perforation of the sheet metal                                                                                                                                                                                                                                                                 | ≤ 35 years, depending on the external environment                                                                                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | • Non-delamination of the paint                                                                                                                                                                                                                                                                      | ≤ 35 years, depending on the external environment                                                                                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | • Aesthetic appearance (ΔE ≤ 3; Gloss retention ≥ 80%)                                                                                                                                                                                                                                               | ≤ 5 years, depending on the geographic location and the paint colour category                                                                                               |
| These performance characteristics refer specifically to metallic coating Z225 (guaranteed minimum).<br>If any product (film, oil, foam, glue, paint etc) is to be applied after coil delivery, compatibility with the coating needs to be checked first.<br>Although we take great care to reproduce the same aesthetic aspect on each coil, ArcelorMittal cannot guarantee the visual consistency from one single order item to another. Consequently, you need to consider placing one single order for one building; standard samples can only serve as a guide. |                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                             |

(1) Nominal value, tolerance according to EN 10169

# Granite<sup>®</sup> HFX Cool

**guarantee 20 years**  
after prior agreement  
free of chromates and heavy metals

|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                       |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Properties   | <ul style="list-style-type: none"> <li>• Good formability at low temperature down to -10°C</li> <li>• Excellent corrosion resistance</li> <li>• Very good UV resistance</li> <li>• Scratch-resistant surface</li> <li>• Thermosetting paint</li> <li>• Surface treatment and paint: free of hexavalent chromium and heavy metals</li> </ul>                                                                                                                                                                                                                              |                                                                                                                       |
| Applications | <b>Granite<sup>®</sup> HFX Cool is recommended for use at low temperature in the cold environments encountered in Northern and Eastern Europe. Its main applications are for constructing standing seam roofs and accessories.</b>                                                                                                                                                                                                                                                                                                                                       |                                                                                                                       |
| Description  | Thickness <sup>(1)</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Satin: 55 microns                                                                                                     |
|              | Composition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Front: Satin: 25 microns primer + 30 microns top coat<br>Back: 7, 10 or 12 microns backing coat<br>Single-side finish |
|              | Gloss (Gardner 60°) <sup>(1)</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Satin: 40 GU<br>Other gloss levels on request                                                                         |
|              | Colours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Specific colour palette                                                                                               |
|              | Appearance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Grained                                                                                                               |
|              | Temporary protection (optional)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Not applicable                                                                                                        |
|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                       |
| Performance  | Adhesion of the coating (T-bend):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                       |
|              | • 20°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ≤ 1 T                                                                                                                 |
|              | • 10°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ≤ 1 T                                                                                                                 |
|              | • 0°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ≤ 1.5 T                                                                                                               |
|              | Resistance to cracking on bending (T-bend):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                       |
|              | • 20°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ≤ 1 T                                                                                                                 |
|              | • 10°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ≤ 3.5 T                                                                                                               |
|              | • 0°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ≤ 3.5 T                                                                                                               |
|              | Impact resistance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 18 J                                                                                                                  |
|              | Clemen scratch resistance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ≥ 3 kg                                                                                                                |
|              | Corrosion resistance:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                       |
|              | • Salt spray test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 700 hours                                                                                                             |
|              | • Corrosion resistance category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | RC5                                                                                                                   |
|              | Condensation resistance (QCT)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1500 hours                                                                                                            |
|              | UV resistance:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                       |
|              | • QUV (UVA + H <sub>2</sub> O) test (2000 hours)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ΔE ≤ 3; Gloss retention ≥ 60%                                                                                         |
|              | • UV resistance category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | RUV3                                                                                                                  |
|              | Fire behaviour classification (EN 13501-1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | A1                                                                                                                    |
|              | Resistance to acids and bases                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Good to very good                                                                                                     |
|              | Resistance to solvents:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                       |
|              | • Aliphatics and alcohols                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Very good                                                                                                             |
|              | • Ketones                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Low                                                                                                                   |
|              | • Aromatics                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Good to very good                                                                                                     |
|              | Resistance to mineral oils                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Very good                                                                                                             |
|              | Maximum continuous operating temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 100°C                                                                                                                 |
| Remarks      | <p>These performance characteristics refer specifically to metallic coating Z275 (guaranteed minimum).<br/>If any product (film, oil, foam, glue, paint etc) is to be applied after coil delivery, compatibility with the coating needs to be checked first. Although we take great care to reproduce the same aesthetic aspect on each coil, ArcelorMittal cannot guarantee the visual consistency from one single order item to another. Consequently, you need to consider placing one single order for one building; standard samples can only serve as a guide.</p> |                                                                                                                       |

*(1) Nominal value, tolerance according to EN 10169*

# Granite® PVDF 25 microns

guarantee **15** years  
 free of chromates and heavy metals

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                               |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| Properties          | <ul style="list-style-type: none"> <li>• Very good colour and appearance stability</li> <li>• Good corrosion resistance</li> <li>• Very good chemical resistance</li> <li>• Thermoplastic paint</li> <li>• Surface treatment and paint: free of hexavalent chromium and heavy metals</li> </ul>                                                                                                                                                                                                                                                                             |                                                                               |
| Applications        | <b>External uses: buildings in aggressive environments</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                               |
| Description         | Thickness <sup>(1)</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 25 microns                                                                    |
|                     | Gloss (Gardner 60°) <sup>(1)</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 30 GU<br>Other gloss levels on request                                        |
|                     | Colours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Specific colours on request                                                   |
|                     | Appearance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Smooth                                                                        |
|                     | Temporary protection (optional)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Self-adhesive film or heat-sealed film                                        |
| Performance         | Adhesion of the coating (T-bend)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ≤ 1 T                                                                         |
|                     | Resistance to cracking on bending (T-bend)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ≤ 2 T                                                                         |
|                     | Impact resistance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 18 J                                                                          |
|                     | Surface "pencil" hardness                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | HB to H                                                                       |
|                     | Corrosion resistance: <ul style="list-style-type: none"> <li>• Salt spray test</li> <li>• Corrosion resistance category</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                          | 360 hours<br>RC3                                                              |
|                     | Condensation resistance: <ul style="list-style-type: none"> <li>• QCT test</li> <li>• Corrosion protection (interior) category</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1000 hours<br>CPI3                                                            |
|                     | UV resistance: <ul style="list-style-type: none"> <li>• QUV (UVA + H<sub>2</sub>O) test (2000 hours)</li> <li>• UV resistance category</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                           | ΔE ≤ 2; GR ≥ 80%<br>RUV4                                                      |
|                     | Fire behaviour classification (EN 13501-1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | A1                                                                            |
|                     | Resistance to acids and bases                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Good to very good                                                             |
|                     | Resistance to solvents: <ul style="list-style-type: none"> <li>• Aliphatics and alcohols</li> <li>• Ketones</li> <li>• Aromatics</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                 | Very good<br>Good<br>Good to very good                                        |
|                     | Resistance to mineral oils                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Very good                                                                     |
|                     | Maximum continuous operating temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 100°C                                                                         |
| Automatic guarantee | Non-perforation of the sheet metal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ≤ 15 years, depending on the external environment                             |
|                     | Non-delamination of the paint                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ≤ 15 years, depending on the external environment                             |
|                     | Aesthetic appearance (ΔE ≤ 3; Gloss retention ≥ 80%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ≤ 5 years, depending on the geographic location and the paint colour category |
| Remarks             | <p>These performance characteristics refer specifically to metallic coating Z225 (guaranteed minimum).</p> <p>If any product (film, oil, foam, glue, paint etc) is to be applied after coil delivery, compatibility with the coating needs to be checked first. Although we take great care to reproduce the same aesthetic aspect on each coil, ArcelorMittal cannot guarantee the visual consistency from one single order item to another. Consequently, you need to consider placing one single order for one building; standard samples can only serve as a guide.</p> |                                                                               |

*(1) Nominal value, tolerance according to EN 10169*

# Granite<sup>®</sup> PVDF 35 microns

**guarantee 20 years**  
 free of chromates and heavy metals

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                 |                                                                                                                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Properties                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <ul style="list-style-type: none"> <li>• Excellent colour and appearance stability</li> <li>• Good corrosion resistance</li> <li>• Excellent chemical resistance</li> <li>• Thermoplastic paint</li> <li>• Surface treatment and paint: free of hexavalent chromium and heavy metals</li> </ul> |                                                                                                                             |
| Applications                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>External uses: architectural buildings, buildings in aggressive environments</b>                                                                                                                                                                                                             |                                                                                                                             |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Thickness <sup>(1)</sup>                                                                                                                                                                                                                                                                        | 35 microns                                                                                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Composition                                                                                                                                                                                                                                                                                     | Front: 15 microns primer + 20 microns top coat<br>Back: 5, 7, 10 or 12 microns backing coat<br>Double-side finish available |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Gloss (Gardner 60°) <sup>(1)</sup>                                                                                                                                                                                                                                                              | 30 GU<br>Other gloss levels on request                                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Colours                                                                                                                                                                                                                                                                                         | Specific colours on request                                                                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Appearance                                                                                                                                                                                                                                                                                      | Smooth                                                                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Temporary protection (optional)                                                                                                                                                                                                                                                                 | Self-adhesive film or heat-sealed film                                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                 |                                                                                                                             |
| Performance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Adhesion of the coating (T-bend)                                                                                                                                                                                                                                                                | ≤ 1 T                                                                                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Resistance to cracking on bending (T-bend)                                                                                                                                                                                                                                                      | ≤ 2 T                                                                                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Impact resistance                                                                                                                                                                                                                                                                               | 18 J                                                                                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Surface "pencil" hardness                                                                                                                                                                                                                                                                       | HB to H                                                                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Clemen scratch resistance                                                                                                                                                                                                                                                                       | ≥ 2 kg                                                                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Corrosion resistance:                                                                                                                                                                                                                                                                           |                                                                                                                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | • Salt spray test                                                                                                                                                                                                                                                                               | 500 hours                                                                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | • Corrosion resistance category                                                                                                                                                                                                                                                                 | RC4                                                                                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Condensation resistance:                                                                                                                                                                                                                                                                        |                                                                                                                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | • QCT test                                                                                                                                                                                                                                                                                      | 1500 hours                                                                                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | • Corrosion protection (interior) category                                                                                                                                                                                                                                                      | CPI4                                                                                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | UV resistance:                                                                                                                                                                                                                                                                                  |                                                                                                                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | • QUV (UVA + H <sub>2</sub> O) test (2000 hours)                                                                                                                                                                                                                                                | ΔE ≤ 2; GR ≥ 80%                                                                                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | • UV resistance category                                                                                                                                                                                                                                                                        | RUV4                                                                                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Fire behaviour classification (EN 13501-1)                                                                                                                                                                                                                                                      | A1                                                                                                                          |
| Automatic guarantee                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Resistance to acids and bases                                                                                                                                                                                                                                                                   | Very good                                                                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Resistance to solvents:                                                                                                                                                                                                                                                                         |                                                                                                                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | • Aliphatics and alcohols                                                                                                                                                                                                                                                                       | Excellent                                                                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | • Ketones                                                                                                                                                                                                                                                                                       | Very good                                                                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | • Aromatics                                                                                                                                                                                                                                                                                     | Very good                                                                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Resistance to mineral oils                                                                                                                                                                                                                                                                      | Excellent                                                                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Maximum continuous operating temperature                                                                                                                                                                                                                                                        | 100°C                                                                                                                       |
| Remarks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | • Non-perforation of the sheet metal                                                                                                                                                                                                                                                            | ≤ 20 years, depending on the external environment                                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | • Non-delamination of the paint                                                                                                                                                                                                                                                                 | ≤ 20 years, depending on the external environment                                                                           |
| • Aesthetic appearance (ΔE ≤ 3; Gloss retention ≥ 80%) ≤ 5 years, depending on the geographic location and the paint colour category                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                 |                                                                                                                             |
| These performance characteristics refer specifically to metallic coating Z225 (guaranteed minimum).<br>If any product (film, oil, foam, glue, paint etc) is to be applied after coil delivery, compatibility with the coating needs to be checked first.<br>Although we take great care to reproduce the same aesthetic aspect on each coil, ArcelorMittal cannot guarantee the visual consistency from one single order item to another. Consequently, you need to consider placing one single order for one building; standard samples can only serve as a guide. |                                                                                                                                                                                                                                                                                                 |                                                                                                                             |

*(1) Nominal value, tolerance according to EN 10169*

# Granite® PVDF 45 microns

**guarantee 20 years**  
free of chromates and heavy metals

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                               |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| Properties          | <ul style="list-style-type: none"> <li>• Excellent colour and appearance stability</li> <li>• Very good corrosion resistance</li> <li>• Very good chemical resistance</li> <li>• High aesthetic appeal</li> <li>• Thermoplastic paint</li> <li>• Surface treatment and paint: free of hexavalent chromium and heavy metals</li> </ul>                                                                                                                                                                                                                                       |                                                                               |
| Applications        | <b>External uses: architectural buildings, buildings in aggressive environments</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                               |
| Description         | Thickness <sup>(1)</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 40 to 45 microns                                                              |
|                     | Gloss (Gardner 60°) <sup>(1)</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 30 GU<br>Other gloss levels on request                                        |
|                     | Colours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Specific colours on request                                                   |
|                     | Appearance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Smooth                                                                        |
|                     | Temporary protection (optional)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Self-adhesive film or heat-sealed film                                        |
| Performance         | Adhesion of the coating (T-bend)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ≤ 1 T                                                                         |
|                     | Resistance to cracking on bending (T-bend)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ≤ 2 T                                                                         |
|                     | Impact resistance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 18 J                                                                          |
|                     | Surface "pencil" hardness                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | HB to H                                                                       |
|                     | Corrosion resistance:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                               |
|                     | • Salt spray test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 500 hours                                                                     |
|                     | • Corrosion resistance category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | RC4                                                                           |
|                     | Condensation resistance (QCT)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1500 hours                                                                    |
|                     | UV resistance:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                               |
|                     | • QUV (UVA + H <sub>2</sub> O) test (2000 hours)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ΔE ≤ 2; GR ≥ 80%                                                              |
|                     | • UV resistance category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | RUV5                                                                          |
|                     | Resistance to acids and bases                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Very good                                                                     |
| Automatic guarantee | Resistance to solvents:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                               |
|                     | • Aliphatics and alcohols                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Excellent                                                                     |
|                     | • Ketones                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Very good                                                                     |
|                     | • Aromatics                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Very good                                                                     |
|                     | Resistance to mineral oils                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Excellent                                                                     |
| Automatic guarantee | Maximum continuous operating temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 100°C                                                                         |
|                     | • Non-perforation of the sheet metal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ≤ 20 years, depending on the external environment                             |
|                     | • Non-delamination of the paint                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ≤ 20 years, depending on the external environment                             |
| Automatic guarantee | • Aesthetic appearance (ΔE ≤ 3; Gloss retention ≥ 80%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ≤ 5 years, depending on the geographic location and the paint colour category |
| Remarks             | <p>These performance characteristics refer specifically to metallic coating Z225 (guaranteed minimum).</p> <p>If any product (film, oil, foam, glue, paint etc) is to be applied after coil delivery, compatibility with the coating needs to be checked first. Although we take great care to reproduce the same aesthetic aspect on each coil, ArcelorMittal cannot guarantee the visual consistency from one single order item to another. Consequently, you need to consider placing one single order for one building; standard samples can only serve as a guide.</p> |                                                                               |

(1) Nominal value, tolerance according to EN 10169



# Granite® PVDF 60 microns

**guarantee 20 years**  
free of chromates and heavy metals

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                               |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| Properties          | <ul style="list-style-type: none"> <li>• Excellent colour and appearance stability</li> <li>• Very good corrosion resistance</li> <li>• Very good chemical resistance</li> <li>• High aesthetic appeal</li> <li>• Thermoplastic paint</li> <li>• Surface treatment and paint: free of hexavalent chromium and heavy metals</li> </ul>                                                                                                                                                                                                                                       |                                                                               |
| Applications        | <b>External uses: architectural buildings, buildings in aggressive environments</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                               |
| Description         | Thickness <sup>(1)</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 55 to 80 microns                                                              |
|                     | Gloss (Gardner 60°) <sup>(1)</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 30 GU<br>Other gloss levels on request                                        |
|                     | Colours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Specific colours on request                                                   |
|                     | Appearance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Smooth                                                                        |
|                     | Temporary protection (optional)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Self-adhesive film or heat-sealed film                                        |
| Performance         | Adhesion of the coating (T-bend)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ≤ 1 T                                                                         |
|                     | Resistance to cracking on bending (T-bend)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ≤ 2 T                                                                         |
|                     | Impact resistance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 18 J                                                                          |
|                     | Surface "pencil" hardness                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | HB to H                                                                       |
|                     | Corrosion resistance:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                               |
|                     | • Salt spray test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 500 hours                                                                     |
|                     | • Corrosion resistance category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | RC4                                                                           |
|                     | Condensation resistance (QCT)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1500 hours                                                                    |
|                     | UV resistance:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                               |
|                     | • QUV (UVA + H <sub>2</sub> O) test (2000 hours)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ΔE ≤ 2; GR ≥ 80%                                                              |
|                     | • UV resistance category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | RUV5                                                                          |
|                     | Resistance to acids and bases                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Very good                                                                     |
| Automatic guarantee | Resistance to solvents:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                               |
|                     | • Aliphatics and alcohols                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Excellent                                                                     |
|                     | • Ketones                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Very good                                                                     |
|                     | • Aromatics                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Very good                                                                     |
|                     | Resistance to mineral oils                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Excellent                                                                     |
| Automatic guarantee | Maximum continuous operating temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 100°C                                                                         |
|                     | • Non-perforation of the sheet metal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ≤ 20 years, depending on the external environment                             |
|                     | • Non-delamination of the paint                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ≤ 20 years, depending on the external environment                             |
| Automatic guarantee | • Aesthetic appearance (ΔE ≤ 3; Gloss retention ≥ 80%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ≤ 5 years, depending on the geographic location and the paint colour category |
| Remarks             | <p>These performance characteristics refer specifically to metallic coating Z225 (guaranteed minimum).</p> <p>If any product (film, oil, foam, glue, paint etc) is to be applied after coil delivery, compatibility with the coating needs to be checked first. Although we take great care to reproduce the same aesthetic aspect on each coil, ArcelorMittal cannot guarantee the visual consistency from one single order item to another. Consequently, you need to consider placing one single order for one building; standard samples can only serve as a guide.</p> |                                                                               |

*(1) Nominal value, tolerance according to EN 10169*

# Granite<sup>®</sup> Silky Shine 50 microns

**guarantee 20 years**  
 free of chromates and heavy metals

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                          |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Properties          | <ul style="list-style-type: none"> <li>• Good formability</li> <li>• Good UV resistance</li> <li>• RC4 corrosion resistance</li> <li>• Surface treatment and paint: free of hexavalent chromium and heavy metals</li> </ul>                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                          |
| Applications        | <b>Attractive top-of-the-range coating for outdoor applications: corrugated profiles, sandwich panels, cassettes etc</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                          |
| Description         | Thickness <sup>(1)</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 50 microns                                                                                                               |
|                     | Composition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Front: 15 microns primer + 35 microns top coat<br>Back: minimum 10 microns high-gloss backing coat<br>Single-side finish |
|                     | Gloss (Gardner 60°) <sup>(1)</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | > 80 GU                                                                                                                  |
|                     | Colours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Dedicated colour palette of attractive colours                                                                           |
|                     | Appearance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Smooth and shiny                                                                                                         |
|                     | Temporary protection (recommended)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Self-adhesive film                                                                                                       |
|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                          |
| Performance         | Adhesion of the coating (T-bend)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ≤ 1 T                                                                                                                    |
|                     | Resistance to cracking on bending (T-bend)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ≤ 3 T                                                                                                                    |
|                     | Impact resistance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 18 J                                                                                                                     |
|                     | Clemen scratch resistance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ≥ 2.5 kg                                                                                                                 |
|                     | Corrosion resistance:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                          |
|                     | • Salt spray test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 500 hours                                                                                                                |
|                     | • Corrosion resistance category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | RC4                                                                                                                      |
|                     | Condensation resistance (QCT)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1500 hours                                                                                                               |
|                     | UV resistance:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                          |
|                     | • QUV (UVA + H <sub>2</sub> O) test (4000 hours)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ΔE ≤ 2; GR ≥ 80%                                                                                                         |
|                     | • UV resistance category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | RUV5                                                                                                                     |
|                     | Resistance to acids and bases                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Very good                                                                                                                |
|                     | Resistance to detergents                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Very good                                                                                                                |
|                     | Resistance to solvents                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Very good                                                                                                                |
|                     | Maximum continuous operating temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 100°C                                                                                                                    |
| Automatic guarantee | • Non-perforation of the sheet metal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ≤ 20 years, depending on the external environment                                                                        |
|                     | • Non-delamination of the paint                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ≤ 20 years, depending on the external environment                                                                        |
|                     | • Aesthetic appearance (ΔE ≤ 3; Gloss retention ≥ 80%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ≤ 5 years, depending on the geographical location and the paint colour category                                          |
| Remarks             | <p>These performance characteristics refer specifically to metallic coating Z225 (guaranteed minimum).<br/>         If any product (film, oil, foam, glue, paint etc) is to be applied after coil delivery, compatibility with the coating needs to be checked first.<br/>         Although we take great care to reproduce the same aesthetic aspect on each coil, ArcelorMittal cannot guarantee the visual consistency from one single order item to another. Consequently, you need to consider placing one single order for one building; standard samples can only serve as a guide.</p> |                                                                                                                          |

(1) Nominal value, tolerance according to EN 10169

# Granite<sup>®</sup> Impression Cloudy

guarantee **15** years  
 free of chromates and heavy metals

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                      |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Properties          | <ul style="list-style-type: none"> <li>• Very good formability during deep drawing and profiling</li> <li>• Good corrosion resistance</li> <li>• Thermosetting paint</li> <li>• Surface treatment and paint: free of hexavalent chromium and heavy metals</li> </ul>                                                                                                                                               |                                                                                      |
| Applications        | <b>External use: coating specifically designed for roof tiles</b>                                                                                                                                                                                                                                                                                                                                                  |                                                                                      |
| Description         | Thickness <sup>(1)</sup>                                                                                                                                                                                                                                                                                                                                                                                           | Usual: 35 microns                                                                    |
|                     | Composition                                                                                                                                                                                                                                                                                                                                                                                                        | Front: 35 microns<br>Back: 5, 7, 10 or 12 microns backing coat<br>Single-side finish |
|                     | Colours / Gloss (Gardner 60°) <sup>(1)</sup>                                                                                                                                                                                                                                                                                                                                                                       | 5 GU                                                                                 |
|                     | Appearance                                                                                                                                                                                                                                                                                                                                                                                                         | Cloudy effect                                                                        |
|                     | Temporary protection (optional)                                                                                                                                                                                                                                                                                                                                                                                    | Self-adhesive film; please contact us                                                |
|                     |                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                      |
| Performance         | Adhesion of the coating (T-bend)                                                                                                                                                                                                                                                                                                                                                                                   | ≤ 0.5 T                                                                              |
|                     | Resistance to cracking on bending (T-bend)                                                                                                                                                                                                                                                                                                                                                                         | ≤ 1 T                                                                                |
|                     | Impact resistance                                                                                                                                                                                                                                                                                                                                                                                                  | 18 J                                                                                 |
|                     | Clemen scratch resistance                                                                                                                                                                                                                                                                                                                                                                                          | ≥ 2 kg                                                                               |
|                     | Resistance on deformed parts: Marciniak test                                                                                                                                                                                                                                                                                                                                                                       | ≤ 1C1                                                                                |
|                     | Surface "pencil" hardness                                                                                                                                                                                                                                                                                                                                                                                          | F                                                                                    |
|                     | Corrosion resistance:                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                      |
|                     | • Salt spray test                                                                                                                                                                                                                                                                                                                                                                                                  | 500 hours                                                                            |
|                     | • Corrosion resistance category                                                                                                                                                                                                                                                                                                                                                                                    | RC4                                                                                  |
|                     | Condensation resistance (QCT)                                                                                                                                                                                                                                                                                                                                                                                      | 1000 hours                                                                           |
|                     | UV resistance category                                                                                                                                                                                                                                                                                                                                                                                             | RUV4                                                                                 |
|                     | Fire behaviour classification (EN 13501-1)                                                                                                                                                                                                                                                                                                                                                                         | A1                                                                                   |
|                     | Resistance to acids and bases                                                                                                                                                                                                                                                                                                                                                                                      | Good to very good                                                                    |
|                     | Resistance to solvents:                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                      |
| Automatic guarantee | • Aliphatics and alcohols                                                                                                                                                                                                                                                                                                                                                                                          | Very good                                                                            |
|                     | • Ketones                                                                                                                                                                                                                                                                                                                                                                                                          | Low                                                                                  |
|                     | • Aromatics                                                                                                                                                                                                                                                                                                                                                                                                        | Good to very good                                                                    |
|                     | Resistance to mineral oils                                                                                                                                                                                                                                                                                                                                                                                         | Very good                                                                            |
| Automatic guarantee | Maximum continuous operating temperature                                                                                                                                                                                                                                                                                                                                                                           | 100°C                                                                                |
|                     | • Non-perforation of the sheet metal                                                                                                                                                                                                                                                                                                                                                                               | ≤ 15 years, depending on the external environment                                    |
|                     | • Non-delamination of the paint                                                                                                                                                                                                                                                                                                                                                                                    | ≤ 15 years, depending on the external environment                                    |
| Automatic guarantee | • Aesthetic appearance (ΔE ≤ 3; Gloss retention ≥ 80%)                                                                                                                                                                                                                                                                                                                                                             | ≤ 5 years, depending on the geographic location and the paint colour category        |
| Remarks             | <p>These performance characteristics refer specifically to metallic coating Z225 (guaranteed minimum). Although we take great care to reproduce the same aesthetic aspect on each coil, ArcelorMittal cannot guarantee the visual consistency from one single order item to another. Consequently, you need to consider placing one single order for one building; standard samples can only serve as a guide.</p> |                                                                                      |
|                     | <i>(1) Nominal value, tolerance according to EN 10169</i>                                                                                                                                                                                                                                                                                                                                                          |                                                                                      |

# Granite<sup>®</sup> Impression Wood

guarantee **15** years  
free of chromates and heavy metals

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                               |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Properties          | <ul style="list-style-type: none"> <li>• Good colour and stability of appearance</li> <li>• Good corrosion resistance</li> <li>• Thermosetting paint</li> <li>• Surface treatment and paint: free of hexavalent chromium and heavy metals</li> </ul>                                                                                                                                                               |                                                                                               |
| Applications        | <b>External uses: construction (cladding)</b>                                                                                                                                                                                                                                                                                                                                                                      |                                                                                               |
| Description         | Thickness <sup>(1)</sup>                                                                                                                                                                                                                                                                                                                                                                                           | 35 microns                                                                                    |
|                     | Composition                                                                                                                                                                                                                                                                                                                                                                                                        | Front: 35 microns<br>Back: 5, 7, 10 or 12 microns backing coat<br>Single-side finish          |
|                     | Colours                                                                                                                                                                                                                                                                                                                                                                                                            | Specific colour palette                                                                       |
|                     | Gloss (Gardner 60°) <sup>(1)</sup>                                                                                                                                                                                                                                                                                                                                                                                 | 5, 20 or 30 GU depending on the colour                                                        |
|                     | Wood printed pattern                                                                                                                                                                                                                                                                                                                                                                                               | Palisander<br>Noce<br>Alder                                                                   |
|                     | Appearance                                                                                                                                                                                                                                                                                                                                                                                                         | Smooth (grained appearance possible only for some colours & patterns)<br>With a rough wrinkle |
|                     | Temporary protection (optional)                                                                                                                                                                                                                                                                                                                                                                                    | Self-adhesive film; please contact us                                                         |
| Performance         | Adhesion of the coating (T-bend)                                                                                                                                                                                                                                                                                                                                                                                   | ≤ 1 T                                                                                         |
|                     | Resistance to cracking on bending (T-bend)                                                                                                                                                                                                                                                                                                                                                                         | ≤ 2 T                                                                                         |
|                     | Impact resistance                                                                                                                                                                                                                                                                                                                                                                                                  | 18 J                                                                                          |
|                     | Surface "pencil" hardness                                                                                                                                                                                                                                                                                                                                                                                          | F                                                                                             |
|                     | Clemen scratch resistance                                                                                                                                                                                                                                                                                                                                                                                          | ≥ 2 kg                                                                                        |
|                     | Corrosion resistance:                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                               |
|                     | • Salt spray test                                                                                                                                                                                                                                                                                                                                                                                                  | 500 hours                                                                                     |
|                     | • Corrosion resistance category                                                                                                                                                                                                                                                                                                                                                                                    | RC4                                                                                           |
|                     | Condensation resistance (QCT)                                                                                                                                                                                                                                                                                                                                                                                      | 1000 hours                                                                                    |
|                     | UV resistance category                                                                                                                                                                                                                                                                                                                                                                                             | RUV4                                                                                          |
|                     | Fire behaviour classification (EN 13501-1)                                                                                                                                                                                                                                                                                                                                                                         | A1                                                                                            |
|                     | Resistance to acids and bases                                                                                                                                                                                                                                                                                                                                                                                      | Good to very good                                                                             |
|                     | Resistance to solvents:                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                               |
|                     | • Aliphatics and alcohols                                                                                                                                                                                                                                                                                                                                                                                          | Very good                                                                                     |
| Automatic guarantee | • Ketones                                                                                                                                                                                                                                                                                                                                                                                                          | Low                                                                                           |
|                     | • Aromatics                                                                                                                                                                                                                                                                                                                                                                                                        | Good to very good                                                                             |
|                     | Resistance to mineral oils                                                                                                                                                                                                                                                                                                                                                                                         | Very good                                                                                     |
|                     | Maximum continuous operating temperature                                                                                                                                                                                                                                                                                                                                                                           | 100°C                                                                                         |
| Automatic guarantee | • Non-perforation of the sheet metal                                                                                                                                                                                                                                                                                                                                                                               | ≤ 15 years, depending on the external environment                                             |
|                     | • Non-delamination of the paint                                                                                                                                                                                                                                                                                                                                                                                    | ≤ 15 years, depending on the external environment                                             |
|                     | • Aesthetic appearance ( $\Delta E \leq 3$ ; Gloss retention $\geq 80\%$ )                                                                                                                                                                                                                                                                                                                                         | ≤ 5 years, depending on the geographic location and on the paint colour category              |
| Remarks             | <p>These performance characteristics refer specifically to metallic coating Z225 (guaranteed minimum). Although we take great care to reproduce the same aesthetic aspect on each coil, ArcelorMittal cannot guarantee the visual consistency from one single order item to another. Consequently, you need to consider placing one single order for one building; standard samples can only serve as a guide.</p> |                                                                                               |

*(1) Nominal value, tolerance according to EN 10169*

# Granite<sup>®</sup> Impression Agate

guarantee **15** years  
 free of chromates and heavy metals

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                               |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Properties          | <ul style="list-style-type: none"> <li>• Very good formability during deep drawing and profiling</li> <li>• Good corrosion resistance</li> <li>• Thermosetting paint</li> <li>• Surface treatment and paint: free of hexavalent chromium and heavy metals</li> </ul>                                                                                                                                               |                                                                                                                                                               |
| Applications        | External cladding for buildings                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                               |
| Description         | Thickness <sup>(1)</sup>                                                                                                                                                                                                                                                                                                                                                                                           | 35 microns                                                                                                                                                    |
|                     | Composition                                                                                                                                                                                                                                                                                                                                                                                                        | Front: 35 microns (10 microns primer + 15 microns base coat + ink + 10 microns clear coat)<br>Back: 5, 7, 10 or 12 microns backing coat<br>Single-side finish |
|                     | Gloss (Gardner 60°) <sup>(1)</sup>                                                                                                                                                                                                                                                                                                                                                                                 | Maximum 30 GU                                                                                                                                                 |
|                     | Colours                                                                                                                                                                                                                                                                                                                                                                                                            | Specific colour palette                                                                                                                                       |
|                     | Appearance                                                                                                                                                                                                                                                                                                                                                                                                         | Printed effect                                                                                                                                                |
|                     | Temporary protection (optional)                                                                                                                                                                                                                                                                                                                                                                                    | Self-adhesive film; please contact us                                                                                                                         |
|                     |                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                               |
| Performance         | Adhesion of the coating (T-bend)                                                                                                                                                                                                                                                                                                                                                                                   | ≤ 1 T                                                                                                                                                         |
|                     | Resistance to cracking on bending (T-bend)                                                                                                                                                                                                                                                                                                                                                                         | ≤ 2 T                                                                                                                                                         |
|                     | Impact resistance                                                                                                                                                                                                                                                                                                                                                                                                  | 18 J                                                                                                                                                          |
|                     | Clemen scratch resistance                                                                                                                                                                                                                                                                                                                                                                                          | ≥ 2 kg                                                                                                                                                        |
|                     | Resistance on deformed parts: Marciniak test                                                                                                                                                                                                                                                                                                                                                                       | < 1C1                                                                                                                                                         |
|                     | Corrosion resistance:                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                               |
|                     | • Salt spray test                                                                                                                                                                                                                                                                                                                                                                                                  | 500 hours                                                                                                                                                     |
|                     | • Corrosion resistance category                                                                                                                                                                                                                                                                                                                                                                                    | RC4                                                                                                                                                           |
|                     | Condensation resistance (QCT)                                                                                                                                                                                                                                                                                                                                                                                      | 1500 hours                                                                                                                                                    |
|                     | UV resistance category                                                                                                                                                                                                                                                                                                                                                                                             | RUV4                                                                                                                                                          |
|                     | Resistance to acids and bases                                                                                                                                                                                                                                                                                                                                                                                      | Good to very good                                                                                                                                             |
|                     | Resistance to solvents:                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                               |
|                     | • Aliphatics and alcohols                                                                                                                                                                                                                                                                                                                                                                                          | Very good                                                                                                                                                     |
| Automatic guarantee | • Ketones                                                                                                                                                                                                                                                                                                                                                                                                          | Low                                                                                                                                                           |
|                     | • Aromatics                                                                                                                                                                                                                                                                                                                                                                                                        | Good to very good                                                                                                                                             |
|                     | Resistance to mineral oils                                                                                                                                                                                                                                                                                                                                                                                         | Very good                                                                                                                                                     |
|                     | Maximum continuous operating temperature                                                                                                                                                                                                                                                                                                                                                                           | 100°C                                                                                                                                                         |
|                     |                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                               |
| Automatic guarantee | • Non-perforation of the sheet metal                                                                                                                                                                                                                                                                                                                                                                               | ≤ 15 years, depending on the external environment                                                                                                             |
|                     | • Non-delamination of the paint                                                                                                                                                                                                                                                                                                                                                                                    | ≤ 15 years, depending on the external environment                                                                                                             |
|                     | • Aesthetic appearance ( $\Delta E \leq 3$ ; Gloss retention $\geq 80\%$ )                                                                                                                                                                                                                                                                                                                                         | ≤ 5 years, depending on the geographic location and the paint colour category                                                                                 |
| Remarks             | <p>These performance characteristics refer specifically to metallic coating Z225 (guaranteed minimum). Although we take great care to reproduce the same aesthetic aspect on each coil, ArcelorMittal cannot guarantee the visual consistency from one single order item to another. Consequently, you need to consider placing one single order for one building; standard samples can only serve as a guide.</p> |                                                                                                                                                               |

(1) Nominal value, tolerance according to EN 10169

# Granite<sup>®</sup> Quartz

**guarantee 20 years**  
free of chromates and heavy metals

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                              |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| Properties          | <ul style="list-style-type: none"> <li>Mineral textured finish</li> <li>Very good formability</li> <li>Very good UV resistance</li> <li>Very good corrosion resistance</li> <li>Thermosetting paint</li> <li>Surface treatment and paint: free of hexavalent chromium and heavy metals</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                              |
| Applications        | <b>External building and general industry applications: roofing tiles, cladding</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                              |
| Description         | Thickness                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 45 microns                                                                                                   |
|                     | Composition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Front: 15 microns primer + 30* microns top coat<br>Back: 10 or 12 microns backing coat<br>Single-side finish |
|                     | Gloss (Gardner 60°)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Maximum 6 GU                                                                                                 |
|                     | Colours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2 specific colour palettes: Classic and Modern                                                               |
|                     | Appearance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Quartz wrinkled                                                                                              |
|                     | Temporary protection (optional)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Strippable films are usually not suitable for wrinkled surfaces                                              |
|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                              |
| Performance         | Adhesion of the coating (T-bend)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ≤ 1 T                                                                                                        |
|                     | Resistance to cracking on bending (T-bend)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ≤ 2 T                                                                                                        |
|                     | Impact resistance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 18 J                                                                                                         |
|                     | Resistance on deformed parts: Marciniak test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ≤ 1C1                                                                                                        |
|                     | Clemen scratch resistance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ≥ 2 kg                                                                                                       |
|                     | Corrosion resistance:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                              |
|                     | • Salt spray test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 360 hours                                                                                                    |
|                     | • Corrosion resistance category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | RC4                                                                                                          |
|                     | Condensation resistance (QCT)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1500 hours                                                                                                   |
|                     | UV resistance:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                              |
|                     | • QUV (UVA + H <sub>2</sub> O) test (2000 hours)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ΔE ≤ 2; GR ≥ 80%                                                                                             |
|                     | • UV resistance category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | RUV4                                                                                                         |
|                     | Fire behaviour classification (EN 13501-1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | A1                                                                                                           |
|                     | Resistance to acids and bases                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Good                                                                                                         |
| Automatic guarantee | Resistance to solvents:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                              |
|                     | • Aliphatics and alcohols                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Very good                                                                                                    |
|                     | • Ketones                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Low                                                                                                          |
|                     | • Aromatics                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Good to very good                                                                                            |
|                     | Maximum continuous operating temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 100°C                                                                                                        |
| Automatic guarantee | • Non-perforation of the sheet metal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ≤ 20 years, depending on the external environment                                                            |
|                     | • Non-delamination of the paint                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ≤ 20 years, depending on the external environment                                                            |
|                     | • Aesthetic appearance (ΔE ≤ 3; Gloss retention ≥ 80%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ≤ 5 years, depending on the geographical location and the paint colour category                              |
| Remarks             | <p>These performance characteristics refer specifically to metallic coating Z275 (guaranteed minimum).</p> <p>If any product (film, oil, foam, glue, paint etc) is to be applied after coil delivery, compatibility with the coating needs to be checked first.</p> <p>(*) Nominal thickness is an average value. Given the specific texture, thickness tolerances according to EN 10169 do not apply.</p> <p>Although we take great care to reproduce the same aesthetic aspect on each coil, ArcelorMittal cannot guarantee the visual consistency from one single order item to another. Consequently, you need to consider placing one single order for one building; standard samples can only serve as a guide.</p> |                                                                                                              |

# Granite<sup>®</sup> Storm

guarantee **35** years  
free of chromates and heavy metals

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                 |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Properties          | <ul style="list-style-type: none"> <li>Nice aesthetic appearance: matt and wrinkled</li> <li>Very good formability</li> <li>Excellent corrosion resistance</li> <li>Thermosetting paint</li> <li>Surface treatment and paint: free of hexavalent chromium and heavy metals</li> </ul>                                                                                                                                                                                                                                                                                       |                                                                                                                                 |
| Applications        | External building and general industry applications: tiles, cladding etc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                 |
| Description         | Thickness <sup>(1)</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 50 microns                                                                                                                      |
|                     | Composition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Front: 25 microns primer + 25 microns top coat<br>Back: 10 or 12 microns backing coat<br>25 microns backing coat also available |
|                     | Gloss (Gardner 60°) <sup>(1)</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Maximum 5 GU                                                                                                                    |
|                     | Colours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Specific colour palette                                                                                                         |
|                     | Appearance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | With a fine or rough wrinkle                                                                                                    |
|                     | Temporary protection (optional)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Strippable films are usually not suitable for wrinkled surfaces                                                                 |
|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                 |
| Performance         | Adhesion of the coating (T-bend)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ≤ 1 T                                                                                                                           |
|                     | Resistance to cracking on bending (T-bend)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ≤ 2 T                                                                                                                           |
|                     | Impact resistance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 18 J                                                                                                                            |
|                     | Resistance on deformed parts: Marciniak test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ≤ 1C1                                                                                                                           |
|                     | Clemen scratch resistance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ≥ 2.5 kg                                                                                                                        |
|                     | Corrosion resistance:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                 |
|                     | • Salt spray test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 700 hours                                                                                                                       |
|                     | • Corrosion resistance category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | RC5+                                                                                                                            |
|                     | Condensation resistance (QCT)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1500 hours                                                                                                                      |
|                     | UV resistance:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                 |
|                     | • QUV (UVA + H <sub>2</sub> O) test (2000 hours)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ΔE ≤ 2; GR ≥ 80%                                                                                                                |
|                     | • UV resistance category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | RUV5                                                                                                                            |
|                     | Fire behaviour classification (EN 13501-1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | A1                                                                                                                              |
| Automatic guarantee | Resistance to acids and bases                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Good                                                                                                                            |
|                     | Resistance to solvents:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                 |
|                     | • Aliphatics and alcohols                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Very good                                                                                                                       |
|                     | • Ketones                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Low                                                                                                                             |
|                     | • Aromatics                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Good to very good                                                                                                               |
| Automatic guarantee | Maximum continuous operating temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 100°C                                                                                                                           |
|                     | • Non-perforation of the sheet metal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ≤ 35 years, depending on the external environment                                                                               |
|                     | • Non-delamination of the paint                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ≤ 35 years, depending on the external environment                                                                               |
| Automatic guarantee | • Aesthetic appearance (ΔE ≤ 3; Gloss retention ≥ 50%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ≤ 5 years, depending on the geographic location and the paint colour category                                                   |
| Remarks             | <p>These performance characteristics refer specifically to metallic coating Z275 (guaranteed minimum).</p> <p>If any product (film, oil, foam, glue, paint etc) is to be applied after coil delivery, compatibility with the coating needs to be checked first. Although we take great care to reproduce the same aesthetic aspect on each coil, ArcelorMittal cannot guarantee the visual consistency from one single order item to another. Consequently, you need to consider placing one single order for one building; standard samples can only serve as a guide.</p> |                                                                                                                                 |
|                     | (1) Nominal value, tolerance according to EN 10169                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                 |

# Granite<sup>®</sup> Farm 35 microns

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Properties                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <ul style="list-style-type: none"> <li>• Very good chemical resistance</li> <li>• Good corrosion resistance</li> <li>• Good formability</li> <li>• Thermosetting paint</li> <li>• Surface treatment and paint: free of hexavalent chromium and heavy metals</li> </ul> |                                                                                                                                                                                                                                                                                |
| Applications                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Inner side of cladding, roofing (single sheets or sandwich panels), to be used in the aggressive environment of livestock and farm buildings                                                                                                                           |                                                                                                                                                                                                                                                                                |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Thickness <sup>(1)</sup>                                                                                                                                                                                                                                               | 35 microns                                                                                                                                                                                                                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Composition                                                                                                                                                                                                                                                            | Front (inner side of the building): 15 microns primer + 20 microns top coat<br>Back (outer side of the building): Granite <sup>®</sup> HD, Granite <sup>®</sup> HDS, Granite <sup>®</sup> HDX for double-sided finish; 12 microns backing coat recommended for sandwich panels |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Gloss (Gardner 60°) <sup>(1)</sup>                                                                                                                                                                                                                                     | 30 GU<br>Other gloss levels on request                                                                                                                                                                                                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Colours                                                                                                                                                                                                                                                                | Various shades of white                                                                                                                                                                                                                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Appearance                                                                                                                                                                                                                                                             | Smooth                                                                                                                                                                                                                                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Temporary protection (optional)                                                                                                                                                                                                                                        | Self-adhesive film or heat-sealed film                                                                                                                                                                                                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                |
| Performance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Adhesion of the coating (T-bend)                                                                                                                                                                                                                                       | ≤ 1 T                                                                                                                                                                                                                                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Resistance to cracking on bending (T-bend)                                                                                                                                                                                                                             | ≤ 2 T                                                                                                                                                                                                                                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Impact resistance                                                                                                                                                                                                                                                      | 18 J                                                                                                                                                                                                                                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Surface "pencil" hardness                                                                                                                                                                                                                                              | HB to H                                                                                                                                                                                                                                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Clemen scratch resistance                                                                                                                                                                                                                                              | ≥ 2 kg                                                                                                                                                                                                                                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Corrosion resistance:                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | • Salt spray test                                                                                                                                                                                                                                                      | 360 hours                                                                                                                                                                                                                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Condensation resistance:                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | • QCT test                                                                                                                                                                                                                                                             | 1500 hours                                                                                                                                                                                                                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | • Corrosion protection (interior) category                                                                                                                                                                                                                             | CPI4                                                                                                                                                                                                                                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Fire behaviour classification (EN 13501-1)                                                                                                                                                                                                                             | A1                                                                                                                                                                                                                                                                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Resistance to acids and bases                                                                                                                                                                                                                                          | Good to very good                                                                                                                                                                                                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Resistance to ammonia                                                                                                                                                                                                                                                  | Very good                                                                                                                                                                                                                                                                      |
| Remarks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Resistance to solvents:                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | • Aliphatics and alcohols                                                                                                                                                                                                                                              | Very good                                                                                                                                                                                                                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | • Ketones                                                                                                                                                                                                                                                              | Very good                                                                                                                                                                                                                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | • Aromatics                                                                                                                                                                                                                                                            | Very good                                                                                                                                                                                                                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Resistance to mineral oils                                                                                                                                                                                                                                             | Very good                                                                                                                                                                                                                                                                      |
| <p>These performance characteristics refer specifically to metallic coating Z275 (guaranteed minimum).<br/>                     If any product (film, oil, foam, glue, paint etc) is to be applied after coil delivery, compatibility with the coating needs to be checked first.<br/>                     Although we take great care to reproduce the same aesthetic aspect on each coil, ArcelorMittal cannot guarantee the visual consistency from one single order item to another. Consequently, you need to consider placing one single order for one building; standard samples can only serve as a guide.</p> |                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                |

*(1) Nominal value, tolerance according to EN 10169*



# Granite<sup>®</sup> Tex

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Properties                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <ul style="list-style-type: none"> <li>• Very good resistance to abrasion</li> <li>• Very good compromise hardness/flexibility</li> <li>• Very good formability</li> <li>• Good corrosion resistance</li> <li>• Thermosetting paint</li> <li>• Surface treatment and paint: free of hexavalent chromium and heavy metals</li> </ul> |                                                                                                                                                    |
| Applications                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Use of textured products for external applications: electrical cabinets, air conditioners, urban furnishings                                                                                                                                                                                                                        |                                                                                                                                                    |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Thickness <sup>(1)</sup>                                                                                                                                                                                                                                                                                                            | 35 microns                                                                                                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Composition                                                                                                                                                                                                                                                                                                                         | Front: 20 microns coloured base coat<br>+ 15 microns textured varnish<br>Back: 5, 7, 10 or 12 microns backing coat<br>Double-side finish available |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Gloss (Gardner 60°) <sup>(1)</sup>                                                                                                                                                                                                                                                                                                  | Usual: 30–50 GU                                                                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Colours                                                                                                                                                                                                                                                                                                                             | Specific colours on request                                                                                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Appearance                                                                                                                                                                                                                                                                                                                          | Textured                                                                                                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Temporary protection                                                                                                                                                                                                                                                                                                                | Not applicable                                                                                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Adhesion of the coating (T-bend)                                                                                                                                                                                                                                                                                                    | ≤ 0.5 T                                                                                                                                            |
| Performance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Resistance to cracking on bending (T-bend)                                                                                                                                                                                                                                                                                          | ≤ 1 T                                                                                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Impact resistance                                                                                                                                                                                                                                                                                                                   | 18 J                                                                                                                                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Clemen scratch resistance                                                                                                                                                                                                                                                                                                           | ≥ 2.5 kg                                                                                                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Taber abrasion resistance                                                                                                                                                                                                                                                                                                           | 25–30 mg                                                                                                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Corrosion resistance:                                                                                                                                                                                                                                                                                                               |                                                                                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | • Salt spray test                                                                                                                                                                                                                                                                                                                   | 360 hours                                                                                                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | • Corrosion resistance category                                                                                                                                                                                                                                                                                                     | RC3                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Condensation resistance (QCT)                                                                                                                                                                                                                                                                                                       | 1000 hours                                                                                                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | UV resistance:                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | • QUV (UVA + H <sub>2</sub> O) test (2000 hours)                                                                                                                                                                                                                                                                                    | ΔE ≤ 3; GR ≥ 60%                                                                                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | • UV resistance category                                                                                                                                                                                                                                                                                                            | RUV3                                                                                                                                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Resistance to acids and bases                                                                                                                                                                                                                                                                                                       | Good to very good                                                                                                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Resistance to solvents:                                                                                                                                                                                                                                                                                                             |                                                                                                                                                    |
| Remarks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | • Aliphatics and alcohols                                                                                                                                                                                                                                                                                                           | Very good                                                                                                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | • Ketones                                                                                                                                                                                                                                                                                                                           | Low                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | • Aromatics                                                                                                                                                                                                                                                                                                                         | Good                                                                                                                                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Resistance to mineral oils                                                                                                                                                                                                                                                                                                          | Very good                                                                                                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Maximum continuous operating temperature                                                                                                                                                                                                                                                                                            | 100°C                                                                                                                                              |
| These performance characteristics refer specifically to metallic coating Z225 (guaranteed minimum).<br>If any product (film, oil, foam, glue, paint etc) is to be applied after coil delivery, compatibility with the coating needs to be checked first.<br>Although we take great care to reproduce the same aesthetic aspect on each coil, ArcelorMittal cannot guarantee the visual consistency from one single order item to another. Consequently, you need to consider placing one single order for one building; standard samples can only serve as a guide. |                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                    |

*(1) Nominal value, tolerance according to EN 10169*

# Granite<sup>®</sup> Shutter

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                      |                             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| Properties                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <ul style="list-style-type: none"> <li>• Good compromise hardness/flexibility</li> <li>• Good formability</li> <li>• Good sliding and abrasive properties</li> <li>• Good corrosion and UV resistance</li> <li>• Thermosetting paint</li> <li>• Surface treatment and paint: free of hexavalent chromium and heavy metals</li> </ul> |                             |
| Applications                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>External uses: roller shutters etc</b>                                                                                                                                                                                                                                                                                            |                             |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Thickness <sup>(1)</sup>                                                                                                                                                                                                                                                                                                             | 35 microns                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Gloss (Gardner 60°) <sup>(1)</sup>                                                                                                                                                                                                                                                                                                   | 30 to 50 GU                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Colours                                                                                                                                                                                                                                                                                                                              | Specific colours on request |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Appearance                                                                                                                                                                                                                                                                                                                           | Textured                    |
| Performance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Adhesion of the coating (T-bend)                                                                                                                                                                                                                                                                                                     | ≤ 0.5 T                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Resistance to cracking on bending (T-bend)                                                                                                                                                                                                                                                                                           | ≤ 1 T                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Impact resistance                                                                                                                                                                                                                                                                                                                    | 18 J                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Clemen scratch resistance                                                                                                                                                                                                                                                                                                            | ≥ 3 kg                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Corrosion resistance:                                                                                                                                                                                                                                                                                                                |                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | • Salt spray test                                                                                                                                                                                                                                                                                                                    | 360 hours                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | • Corrosion resistance category                                                                                                                                                                                                                                                                                                      | RC3                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Condensation resistance (QCT)                                                                                                                                                                                                                                                                                                        | 1000 hours                  |
| Remarks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | UV resistance:                                                                                                                                                                                                                                                                                                                       |                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | • QUV (UVA + H <sub>2</sub> O) test (2000 hours)                                                                                                                                                                                                                                                                                     | ΔE ≤ 3; GR ≥ 60%            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | • UV resistance category                                                                                                                                                                                                                                                                                                             | RUV3                        |
| <p>These performance characteristics refer specifically to metallic coating Z225 (guaranteed minimum).<br/>                     If any product (film, oil, foam, glue, paint etc) is to be applied after coil delivery, compatibility with the coating needs to be checked first.<br/>                     Although we take great care to reproduce the same aesthetic aspect on each coil, ArcelorMittal cannot guarantee the visual consistency from one single order item to another. Consequently, you need to consider placing one single order for one building; standard samples can only serve as a guide.</p> |                                                                                                                                                                                                                                                                                                                                      |                             |

*(1) Nominal value, tolerance according to EN 10169*

# Granite<sup>®</sup> Flex 25 microns

guarantee **15** years  
free of chromates and heavy metals

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                            |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Properties          | <ul style="list-style-type: none"> <li>• Very good formability and profiling</li> <li>• Thermosetting paint</li> <li>• Surface treatment and paint: free of hexavalent chromium and heavy metals</li> </ul>                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                            |
| Applications        | <b>External building and general industry applications that require high flexibility during deformation: tiles, HVAC, purlins etc</b>                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                            |
| Description         | Thickness <sup>(1)</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 25 microns                                                                                                                 |
|                     | Composition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Front: 5 microns primer + 20 microns top coat<br>Back: 5, 7, 10 or 12 microns backing coat<br>Double-side finish available |
|                     | Gloss (Gardner 60°) <sup>(1)</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Usual: 30 GU<br>Other gloss levels on request                                                                              |
|                     | Colours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Specific colours on request                                                                                                |
|                     | Appearance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Smooth, grained                                                                                                            |
|                     | Temporary protection (optional)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Self-adhesive film or heat-sealed film on smooth coating                                                                   |
|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                            |
| Performance         | Adhesion of the coating (T-bend)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ≤ 0.5 T for steel thicknesses ≤ 1.5 mm                                                                                     |
|                     | Resistance to cracking on bending (T-bend)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ≤ 1 T for steel thicknesses ≤ 1.5 mm<br>≤ 1.5 T for steel thicknesses > 1.5 mm (conic bend)                                |
|                     | Impact resistance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 18 J for steel thicknesses ≤ 1.5 mm                                                                                        |
|                     | Resistance on deformed parts: Marciniak test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ≤ 1C1 for steel thicknesses ≤ 1.5 mm                                                                                       |
|                     | Clemen scratch resistance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ≥ 2 kg                                                                                                                     |
|                     | Corrosion resistance:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                            |
|                     | • Salt spray test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 360 hours                                                                                                                  |
|                     | • Corrosion resistance category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | RC3                                                                                                                        |
|                     | Condensation resistance (QCT)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1000 hours                                                                                                                 |
|                     | UV resistance:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                            |
|                     | • QUV (UVA + H <sub>2</sub> O) test (2000 hours)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ΔE ≤ 5; GR ≥ 30%                                                                                                           |
|                     | • UV resistance category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | RUV2                                                                                                                       |
| Automatic guarantee | Resistance to acids and bases                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Good to very good                                                                                                          |
|                     | Resistance to solvents:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                            |
|                     | • Aliphatics and alcohols                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Very good                                                                                                                  |
|                     | • Ketones                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Low                                                                                                                        |
|                     | • Aromatics                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Good                                                                                                                       |
| Automatic guarantee | Resistance to mineral oils                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Very good                                                                                                                  |
|                     | • Non-perforation of the sheet metal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ≤ 15 years, depending on the external environment                                                                          |
|                     | • Non-delamination of the paint                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ≤ 15 years, depending on the external environment                                                                          |
| Automatic guarantee | • Aesthetic appearance (ΔE ≤ 5; Gloss retention ≥ 30%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ≤ 5 years, depending on the geographic location and the paint colour category                                              |
| Remarks             | <p>These performance characteristics refer specifically to metallic coating Z225 (guaranteed minimum) or equivalent. If any product (film, oil, foam, glue, paint etc) is to be applied after coil delivery, compatibility with the coating needs to be checked first. Although we take great care to reproduce the same aesthetic aspect on each coil, ArcelorMittal cannot guarantee the visual consistency from one single order item to another. Consequently, you need to consider placing one single order for one building; standard samples can only serve as a guide.</p> |                                                                                                                            |

(1) Nominal value, tolerance according to EN 10169

# Granite<sup>®</sup> Deep Mat 35 microns

guarantee **15** years  
free of chromates and heavy metals

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                             |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Properties          | <ul style="list-style-type: none"> <li>Nice aesthetic appearance: matt and wrinkled</li> <li>Very good formability</li> <li>Good corrosion resistance</li> <li>Thermosetting paint</li> <li>Surface treatment and paint: free of hexavalent chromium and heavy metals</li> </ul>                                                                                                                                                                                                                                                                                            |                                                                                                                             |
| Applications        | External building and general industry applications: tiles, cladding etc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                             |
| Description         | Thickness <sup>(1)</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 35 microns                                                                                                                  |
|                     | Composition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Front: 10 microns primer + 25 microns top coat<br>Back: 5, 7, 10 or 12 microns backing coat<br>Double-side finish available |
|                     | Gloss (Gardner 60°) <sup>(1)</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Maximum 5 GU                                                                                                                |
|                     | Colours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Specific colour palette                                                                                                     |
|                     | Appearance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | With a fine or rough wrinkle                                                                                                |
|                     | Temporary protection (optional)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Strippable films are usually not suitable for wrinkled surfaces                                                             |
|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                             |
| Performance         | Adhesion of the coating (T-bend)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ≤ 1 T                                                                                                                       |
|                     | Resistance to cracking on bending (T-bend)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ≤ 2 T                                                                                                                       |
|                     | Impact resistance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 18 J                                                                                                                        |
|                     | Resistance on deformed parts: Marciniak test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ≤ 1C1                                                                                                                       |
|                     | Clemen scratch resistance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ≥ 1.5 kg                                                                                                                    |
|                     | Corrosion resistance:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                             |
|                     | • Salt spray test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 360 hours                                                                                                                   |
|                     | • Corrosion resistance category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | RC3                                                                                                                         |
|                     | Condensation resistance (QCT)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1000 hours                                                                                                                  |
|                     | UV resistance:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                             |
|                     | • QUV (UVA + H <sub>2</sub> O) test (2000 hours)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ΔE ≤ 3; GR ≥ 60%                                                                                                            |
|                     | • UV resistance category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | RUV3                                                                                                                        |
|                     | Fire behaviour classification (EN 13501-1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | A1                                                                                                                          |
| Automatic guarantee | Resistance to acids and bases                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Good                                                                                                                        |
|                     | Resistance to solvents:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                             |
|                     | • Aliphatics and alcohols                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Very good                                                                                                                   |
|                     | • Ketones                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Low                                                                                                                         |
|                     | • Aromatics                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Good to very good                                                                                                           |
| Automatic guarantee | Maximum continuous operating temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 100°C                                                                                                                       |
|                     | • Non-perforation of the sheet metal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ≤ 15 years, depending on the external environment                                                                           |
|                     | • Non-delamination of the paint                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ≤ 15 years, depending on the external environment                                                                           |
| Automatic guarantee | • Aesthetic appearance (ΔE ≤ 3; Gloss retention ≥ 50%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ≤ 5 years, depending on the geographic location and the paint colour category                                               |
|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                             |
| Remarks             | <p>These performance characteristics refer specifically to metallic coating Z225 (guaranteed minimum).</p> <p>If any product (film, oil, foam, glue, paint etc) is to be applied after coil delivery, compatibility with the coating needs to be checked first. Although we take great care to reproduce the same aesthetic aspect on each coil, ArcelorMittal cannot guarantee the visual consistency from one single order item to another. Consequently, you need to consider placing one single order for one building; standard samples can only serve as a guide.</p> |                                                                                                                             |
|                     | (1) Nominal value, tolerance according to EN 10169                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                             |

# Granite<sup>®</sup> Deep Mat 40 microns

**guarantee 20 years**  
free of chromates and heavy metals

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                            |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Properties          | <ul style="list-style-type: none"> <li>Nice aesthetic appearance: matt and wrinkled</li> <li>Very good formability</li> <li>Very good corrosion resistance</li> <li>Thermosetting paint</li> <li>Surface treatment and paint: free of hexavalent chromium and heavy metals</li> </ul>                                                                                                                                                                                                                                                                                       |                                                                                                                            |
| Applications        | <b>External building and general industry applications: tiles, cladding etc</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                            |
| Description         | Thickness <sup>(1)</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 40 microns                                                                                                                 |
|                     | Composition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Front 15 microns primer + 25 microns top coat<br>Back: 5, 7, 10 or 12 microns backing coat<br>Double-side finish available |
|                     | Gloss (Gardner 60°) <sup>(1)</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Maximum 5 GU                                                                                                               |
|                     | Colours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Specific colour palette                                                                                                    |
|                     | Appearance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | With a fine or rough wrinkle                                                                                               |
|                     | Temporary protection (optional)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Strippable films are usually not suitable for wrinkled surfaces                                                            |
|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                            |
| Performance         | Adhesion of the coating (T-bend)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ≤ 1 T                                                                                                                      |
|                     | Resistance to cracking on bending (T-bend)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ≤ 2 T                                                                                                                      |
|                     | Impact resistance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 18 J                                                                                                                       |
|                     | Resistance on deformed parts: Marciniak test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ≤ 1C1                                                                                                                      |
|                     | Clemen scratch resistance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ≥ 1.5 kg                                                                                                                   |
|                     | Corrosion resistance:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                            |
|                     | • Salt spray test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 500 hours                                                                                                                  |
|                     | • Corrosion resistance category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | RC4                                                                                                                        |
|                     | Condensation resistance (QCT)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1500 hours                                                                                                                 |
|                     | UV resistance:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                            |
|                     | • QUV (UVA + H <sub>2</sub> O) test (2000 hours)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ΔE ≤ 3; GR ≥ 60%                                                                                                           |
|                     | • UV resistance category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | RUV3                                                                                                                       |
| Automatic guarantee | Resistance to acids and bases                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Good                                                                                                                       |
|                     | Resistance to solvents:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                            |
|                     | • Aliphatics and alcohols                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Very good                                                                                                                  |
|                     | • Ketones                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Low                                                                                                                        |
|                     | • Aromatics                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Good to very good                                                                                                          |
|                     | Maximum continuous operating temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 100°C                                                                                                                      |
| Automatic guarantee | • Non-perforation of the sheet metal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ≤ 20 years, depending on the external environment                                                                          |
|                     | • Non-delamination of the paint                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ≤ 20 years, depending on the external environment                                                                          |
|                     | • Aesthetic appearance (ΔE ≤ 3; Gloss retention ≥ 50%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ≤ 5 years, depending on the geographic location and the paint colour category                                              |
| Remarks             | <p>These performance characteristics refer specifically to metallic coating Z225 (guaranteed minimum).</p> <p>If any product (film, oil, foam, glue, paint etc) is to be applied after coil delivery, compatibility with the coating needs to be checked first. Although we take great care to reproduce the same aesthetic aspect on each coil, ArcelorMittal cannot guarantee the visual consistency from one single order item to another. Consequently, you need to consider placing one single order for one building; standard samples can only serve as a guide.</p> |                                                                                                                            |

*(1) Nominal value, tolerance according to EN 10169*

# Granite<sup>®</sup> Ultramat

**guarantee 20 years**  
free of chromates and heavy metals

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                             |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Properties          | <ul style="list-style-type: none"> <li>• Matt and wrinkled aesthetic appearance</li> <li>• Good formability at low temperature down to 10°C and after cold storage</li> <li>• Scratch-resistant surface</li> <li>• Improved fretting resistance for transportation of ready-made products</li> <li>• Thermosetting paint</li> <li>• Surface treatment and paint: free of hexavalent chromium and heavy metals</li> </ul>                                                                                                                                                    |                                                                                                                             |
| Applications        | <b>External building and general industry applications: tiles, cladding etc</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                             |
| Description         | Thickness <sup>(1)</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 35 microns                                                                                                                  |
|                     | Composition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Front: 10 microns primer + 25 microns top coat<br>Back: 5, 7, 10 or 12 microns backing coat<br>Double-side finish available |
|                     | Gloss (Gardner 60°) <sup>(1)</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Maximum 5 GU                                                                                                                |
|                     | Colours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Specific colour palette                                                                                                     |
|                     | Appearance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | With a rough wrinkle                                                                                                        |
|                     | Temporary protection (optional)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Strippable films are usually not suitable for wrinkled surfaces                                                             |
|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                             |
| Performance         | Adhesion of the coating (T-bend):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                             |
|                     | • 20°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ≤ 1 T                                                                                                                       |
|                     | • 10°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ≤ 1 T                                                                                                                       |
|                     | Resistance to cracking on bending (T-bend):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                             |
|                     | • 20°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ≤ 2 T                                                                                                                       |
|                     | • 10°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ≤ 2 T                                                                                                                       |
|                     | Resistance to cracking (T-bend) after 60 days at -15°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2 T                                                                                                                         |
|                     | Impact resistance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 18 J                                                                                                                        |
|                     | Clemen scratch resistance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ≥ 2 kg                                                                                                                      |
|                     | Corrosion resistance:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                             |
|                     | • Salt spray test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 360 hours                                                                                                                   |
|                     | • Corrosion resistance category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | RC4                                                                                                                         |
|                     | Condensation resistance (QCT)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1000 hours                                                                                                                  |
|                     | UV resistance:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                             |
|                     | • QUV (UVA + H <sub>2</sub> O) test (2000 hours)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ΔE ≤ 2; GR ≥ 80%                                                                                                            |
|                     | • UV resistance category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | RUV4                                                                                                                        |
|                     | Fire behaviour classification (EN 13501-1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | A1                                                                                                                          |
|                     | Resistance to acids and bases                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Good                                                                                                                        |
|                     | Resistance to solvents:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                             |
|                     | • Aliphatics and alcohols                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Very good                                                                                                                   |
|                     | • Ketones                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Low                                                                                                                         |
|                     | • Aromatics                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Good to very good                                                                                                           |
|                     | Maximum continuous operating temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 100°C                                                                                                                       |
| Automatic guarantee | • Non-perforation of the sheet metal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ≤ 20 years, depending on the external environment                                                                           |
|                     | • Non-delamination of the paint                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ≤ 15 years, depending on the external environment                                                                           |
|                     | • Aesthetic appearance (ΔE ≤ 3; Gloss retention ≥ 60%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Maximum 10 years on colour retention, depending on the geographic location and the paint colour category                    |
| Remarks             | <p>These performance characteristics refer specifically to metallic coating Z225 (guaranteed minimum).</p> <p>If any product (film, oil, foam, glue, paint etc) is to be applied after coil delivery, compatibility with the coating needs to be checked first. Although we take great care to reproduce the same aesthetic aspect on each coil, ArcelorMittal cannot guarantee the visual consistency from one single order item to another. Consequently, you need to consider placing one single order for one building; standard samples can only serve as a guide.</p> |                                                                                                                             |

*(1) Nominal value, tolerance according to EN 10169*

# Granite<sup>®</sup> Rain HDS

guarantee **10** years  
 free of chromates and heavy metals

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                      |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| Properties          | <ul style="list-style-type: none"> <li>• Very good formability</li> <li>• Very good corrosion resistance</li> <li>• Very good UV resistance</li> <li>• Thermosetting paint</li> <li>• Surface treatment and paint: free of hexavalent chromium and heavy metals</li> </ul>                                                                                                                                                                                                                                                                                                                                             |                                                                      |
| Applications        | <b>Rainwater systems (gutters, drainpipes and accessories)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                      |
| Description         | Thickness <sup>(1)</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 35 microns                                                           |
|                     | Composition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Front: 15 microns primer + 20 microns top coat<br>Double-side finish |
|                     | Gloss (Gardner 60°) <sup>(1)</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 30 or 40 GU depending on the colour<br>Other gloss levels on request |
|                     | Colours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Colour palette<br>Other colours on request                           |
|                     | Appearance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Grained                                                              |
|                     | Temporary protection (optional)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Not applicable                                                       |
|                     | Adhesion of the coating (T-bend)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ≤ 1 T                                                                |
| Performance         | Resistance to cracking on bending (T-bend)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ≤ 2 T                                                                |
|                     | Impact resistance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 18 J                                                                 |
|                     | Clemen scratch resistance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ≥ 2 kg                                                               |
|                     | Corrosion resistance:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                      |
|                     | • Salt spray test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 500 hours                                                            |
|                     | • Corrosion resistance category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | RC4                                                                  |
|                     | Condensation resistance (QCT)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1500 hours                                                           |
|                     | UV resistance:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                      |
|                     | • QUV (UVA + H <sub>2</sub> O) tests (2000 hours)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ΔE ≤ 2; Gloss retention ≥ 80%                                        |
|                     | • UV resistance category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | RUV4                                                                 |
|                     | Fire behaviour classification (EN 13501-1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | A1                                                                   |
|                     | Resistance to acids and bases                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Good to very good                                                    |
| Automatic guarantee | Resistance to solvents:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                      |
|                     | • Aliphatics and alcohols                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Very good                                                            |
|                     | • Ketones                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Low                                                                  |
|                     | • Aromatics                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Good to very good                                                    |
|                     | Resistance to mineral oils                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Very good                                                            |
|                     | Non-perforation of the sheet metal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 10 years                                                             |
| Remarks             | Aesthetic appearance (ΔE ≤ 3; Gloss retention ≥ 80%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ≤ 5 years, depending on the paint colour category                    |
|                     | <p>These performance characteristics refer specifically to metallic coating Z275 (guaranteed minimum).<br/>                     If any product (film, oil, foam, glue, paint etc) is to be applied after coil delivery, compatibility with the coating needs to be checked first.<br/>                     Although we take great care to reproduce the same aesthetic aspect on each coil, ArcelorMittal cannot guarantee the visual consistency from one single order item to another. Consequently, you need to consider placing one single order for one building; standard samples can only serve as a guide.</p> |                                                                      |

*(1) Nominal value, tolerance according to EN 10169*

# Granite<sup>®</sup> Rain HDX

guarantee **15** years  
free of chromates and heavy metals

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                      |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| Properties          | <ul style="list-style-type: none"> <li>Formable at low temperature</li> <li>Very good formability</li> <li>Excellent corrosion resistance</li> <li>Very good UV resistance</li> <li>Scratch-resistant surface</li> <li>Thermosetting paint</li> <li>Surface treatment and paint: free of hexavalent chromium and heavy metals</li> </ul>                                                                                                                                                                                                                                     |                                                                      |
| Applications        | <b>Rainwater systems (gutters, drainpipes and accessories)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                      |
| Description         | Thickness <sup>(1)</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 55 microns                                                           |
|                     | Composition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Front: 25 microns primer + 30 microns top coat<br>Double-side finish |
|                     | Gloss (Gardner 60°) <sup>(1)</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 30 or 40 GU depending on the colour<br>Other gloss levels on request |
|                     | Colours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Colour palette<br>Other colours on request                           |
|                     | Appearance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Grained                                                              |
|                     | Temporary protection (optional)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Not applicable                                                       |
|                     | Adhesion of the coating (T-bend)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ≤ 1 T                                                                |
| Performance         | Resistance to cracking on bending (T-bend)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ≤ 1.5 T                                                              |
|                     | Impact resistance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 18 J                                                                 |
|                     | Clemen scratch resistance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ≥ 3 kg                                                               |
|                     | Corrosion resistance:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                      |
|                     | • Salt spray test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 700 hours                                                            |
|                     | • Corrosion resistance category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | RC5                                                                  |
|                     | Condensation resistance (QCT)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1500 hours                                                           |
|                     | UV resistance:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                      |
|                     | • QUV (UVA + H <sub>2</sub> O) tests (2000 hours)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ΔE ≤ 2; Gloss retention ≥ 80%                                        |
|                     | • UV resistance category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | RUV4                                                                 |
|                     | Fire behaviour classification (EN 13501-1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | A1                                                                   |
|                     | Resistance to acids and bases                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Good to very good                                                    |
| Automatic guarantee | • Non-perforation of the sheet metal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 15 years                                                             |
|                     | • Aesthetic appearance (ΔE ≤ 3; Gloss retention ≥ 80%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ≤ 5 years, depending on the paint colour category                    |
| Remarks             | <p>These performance characteristics refer specifically to metallic coating Z275 (guaranteed minimum).<br/>If any product (film, oil, foam, glue, paint etc) is to be applied after coil delivery, compatibility with the coating needs to be checked first.<br/>Although we take great care to reproduce the same aesthetic aspect on each coil, ArcelorMittal cannot guarantee the visual consistency from one single order item to another. Consequently, you need to consider placing one single order for one building; standard samples can only serve as a guide.</p> |                                                                      |
|                     | <i>(1) Nominal value, tolerance according to EN 10169</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                      |



# Granite<sup>®</sup> Comfort

|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                            |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Properties   | <ul style="list-style-type: none"> <li>• High solar reflectance performance</li> <li>• Very good resistance to solar radiation</li> <li>• Good corrosion resistance</li> <li>• Good formability</li> <li>• Thermosetting paint</li> <li>• Surface treatment and paint: free of hexavalent chromium and heavy metals</li> </ul>                                                                                                                                                                                                                                                                     |                                                                                                                            |
| Applications | <b>External building and general industry: sandwich panels, insulated systems, single profiles</b><br><b>Building projects with low energy consumption requirement</b>                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                            |
| Description  | Thickness <sup>(1)</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 25 microns                                                                                                                 |
|              | Composition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Front: 5 microns primer + 20 microns top coat<br>Back: 5, 7, 10 or 12 microns backing coat<br>Double-side finish available |
|              | Gloss (Gardner 60°) <sup>(1)</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Usual: 30 GU<br>Other gloss levels on request                                                                              |
|              | Colours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Colour palette, specific colours on request                                                                                |
|              | Total Solar Reflectance (ASTM E903-96)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ≥ 25%                                                                                                                      |
|              | Appearance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Smooth<br>Grained and wrinkled on request                                                                                  |
|              | Temporary protection (optional)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Self-adhesive film or heat-sealed film on smooth coating                                                                   |
| Performance  | Adhesion of the coating (T-bend)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ≤ 1 T                                                                                                                      |
|              | Resistance to cracking on bending (T-bend)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ≤ 2 T                                                                                                                      |
|              | Impact resistance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 18 J                                                                                                                       |
|              | Surface "pencil" hardness                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | HB to H                                                                                                                    |
|              | Clemen scratch resistance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ≥ 2 kg                                                                                                                     |
|              | Corrosion resistance:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                            |
|              | • Salt spray test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 360 hours                                                                                                                  |
|              | • Corrosion resistance category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | RC3                                                                                                                        |
|              | Condensation resistance (QCT)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1000 hours                                                                                                                 |
|              | UV resistance:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                            |
|              | • QUV (UVA + H <sub>2</sub> O) test (2000 hours)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ΔE ≤ 3; GR ≥ 60%                                                                                                           |
|              | • UV resistance category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | RUV3                                                                                                                       |
|              | Fire behaviour classification (EN 13501-1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | A1                                                                                                                         |
|              | Resistance to acids and bases                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Good to very good                                                                                                          |
|              | Resistance to solvents:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                            |
|              | • Aliphatics and alcohols                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Very good                                                                                                                  |
|              | • Ketones                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Low                                                                                                                        |
|              | • Aromatics                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Good to very good                                                                                                          |
|              | Resistance to mineral oils                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Very good                                                                                                                  |
|              | Maximum continuous operating temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 100°C                                                                                                                      |
| Guarantee    | <ul style="list-style-type: none"> <li>• Non-perforation of the sheet metal ≤ 10 years, depending on the external environment</li> <li>• Non-delamination of the paint ≤ 10 years, depending on the external environment</li> <li>• Aesthetic appearance (ΔE ≤ 3; Gloss retention ≥ 50%) ≤ 5 years, depending on the geographic location and the paint colour category</li> </ul>                                                                                                                                                                                                                  |                                                                                                                            |
| Remarks      | These performance characteristics refer specifically to metallic coating Z225 and Optigal <sup>®</sup> ZM100 (guaranteed minimum).<br>If any product (film, oil, foam, glue, paint etc) is to be applied after coil delivery, compatibility with the coating needs to be checked first.<br>Although we take great care to reproduce the same aesthetic aspect on each coil, ArcelorMittal cannot guarantee the visual consistency from one single order item to another. Consequently, you need to consider placing one single order for one building; standard samples can only serve as a guide. |                                                                                                                            |

(1) Nominal value, tolerance according to EN 10169

# Base coat for post-painting 5 microns (BCPP5)

|                                                    |                                                                                                                                                                                                                                                                                                                  |                                                                                     |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Properties                                         | <ul style="list-style-type: none"><li>• Corrosion protection</li><li>• Good adhesion of finishing coating</li><li>• Surface treatment and paint: free of hexavalent chromium and heavy metals</li></ul>                                                                                                          |                                                                                     |
| Applications                                       | Tiles, garage doors, facade components etc                                                                                                                                                                                                                                                                       |                                                                                     |
| Description                                        | Thickness <sup>(1)</sup>                                                                                                                                                                                                                                                                                         | 5 microns                                                                           |
|                                                    | Colours                                                                                                                                                                                                                                                                                                          | B7016, B7032 & B9002. No guarantee on colour consistency. Other colours on request. |
|                                                    | Gloss (Gardner 60°) <sup>(1)</sup>                                                                                                                                                                                                                                                                               | > 20 GU                                                                             |
| Performance                                        | Adhesion of the coating (T-bend)                                                                                                                                                                                                                                                                                 | ≤ 1 T                                                                               |
|                                                    | Flexibility (T-bend)                                                                                                                                                                                                                                                                                             | ≤ 3 T                                                                               |
|                                                    | Surface “pencil” hardness                                                                                                                                                                                                                                                                                        | F to H                                                                              |
|                                                    | Corrosion resistance: <ul style="list-style-type: none"><li>• Salt spray test</li><li>• Condensation resistance</li></ul>                                                                                                                                                                                        | <div>150 hours</div> <div>500 hours</div>                                           |
| Remarks                                            | These performance characteristics refer specifically to metallic coating Z275 and Optigal® ZM120 (guaranteed minimum).<br>If any product (temporary protection film, oil, foam, glue, paint etc) is to be applied after coil delivery, compatibility with the coating needs to be checked first by the customer. |                                                                                     |
| (1) Nominal value, tolerance according to EN 10169 |                                                                                                                                                                                                                                                                                                                  |                                                                                     |

# Base coat for post-painting 10 microns (BCPP10)

|                                                    |                                                                                                                                                                                                                                                                                                                  |                                                                                     |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Properties                                         | <ul style="list-style-type: none"><li>• Corrosion protection</li><li>• Good adhesion of finishing coating</li><li>• Surface treatment and paint: free of hexavalent chromium and heavy metals</li></ul>                                                                                                          |                                                                                     |
| Applications                                       | Tiles, garage doors, facade components etc                                                                                                                                                                                                                                                                       |                                                                                     |
| Description                                        | Thickness <sup>(1)</sup>                                                                                                                                                                                                                                                                                         | 10 microns                                                                          |
|                                                    | Colours                                                                                                                                                                                                                                                                                                          | B7016, B7032 & B9002. No guarantee on colour consistency. Other colours on request. |
|                                                    | Gloss (Gardner 60°) <sup>(1)</sup>                                                                                                                                                                                                                                                                               | > 20 GU                                                                             |
| Performance                                        | Adhesion of the coating (T-bend)                                                                                                                                                                                                                                                                                 | ≤ 1 T                                                                               |
|                                                    | Flexibility (T-bend)                                                                                                                                                                                                                                                                                             | ≤ 3 T                                                                               |
|                                                    | Surface “pencil” hardness                                                                                                                                                                                                                                                                                        | F to H                                                                              |
|                                                    | Corrosion resistance:                                                                                                                                                                                                                                                                                            |                                                                                     |
|                                                    | <ul style="list-style-type: none"><li>• Salt spray test</li><li>• Condensation resistance</li></ul>                                                                                                                                                                                                              | <div>240 hours</div> <div>500 hours</div>                                           |
| Remarks                                            | These performance characteristics refer specifically to metallic coating Z275 and Optigal® ZM120 (guaranteed minimum).<br>If any product (temporary protection film, oil, foam, glue, paint etc) is to be applied after coil delivery, compatibility with the coating needs to be checked first by the customer. |                                                                                     |
| (1) Nominal value, tolerance according to EN 10169 |                                                                                                                                                                                                                                                                                                                  |                                                                                     |

# Base coat for post-painting 25 microns (BCPP25)

|                                                    |                                                                                                                                                                                                                                                                                                                  |                                                                                     |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Properties                                         | <ul style="list-style-type: none"><li>• Very good corrosion protection</li><li>• Good adhesion of finishing coating</li><li>• Surface treatment and paint: free of hexavalent chromium and heavy metals</li></ul>                                                                                                |                                                                                     |
| Applications                                       | Tiles, garage doors, facade components etc                                                                                                                                                                                                                                                                       |                                                                                     |
| Description                                        | Thickness <sup>(1)</sup>                                                                                                                                                                                                                                                                                         | 25 microns                                                                          |
|                                                    | Colours                                                                                                                                                                                                                                                                                                          | B7016, B7032 & B9002. No guarantee on colour consistency. Other colours on request. |
|                                                    | Gloss (Gardner 60°) <sup>(1)</sup>                                                                                                                                                                                                                                                                               | > 40 GU                                                                             |
| Performance                                        | Adhesion of the coating (T-bend)                                                                                                                                                                                                                                                                                 | ≤ 1 T                                                                               |
|                                                    | Flexibility (T-bend)                                                                                                                                                                                                                                                                                             | ≤ 3 T                                                                               |
|                                                    | Surface “pencil” hardness                                                                                                                                                                                                                                                                                        | F to H                                                                              |
|                                                    | Corrosion resistance: <ul style="list-style-type: none"><li>• Salt spray test</li><li>• Condensation resistance</li></ul>                                                                                                                                                                                        | 500 hours<br>1000 hours                                                             |
| Remarks                                            | These performance characteristics refer specifically to metallic coating Z275 and Optigal® ZM120 (guaranteed minimum).<br>If any product (temporary protection film, oil, foam, glue, paint etc) is to be applied after coil delivery, compatibility with the coating needs to be checked first by the customer. |                                                                                     |
| (1) Nominal value, tolerance according to EN 10169 |                                                                                                                                                                                                                                                                                                                  |                                                                                     |

# Estetic<sup>®</sup> Access

|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                         |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| Properties   | <ul style="list-style-type: none"> <li>Thermosetting paint</li> <li>Surface treatment and paint: free of hexavalent chromium and heavy metals</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                         |
| Applications | <b>Liners, furniture, indoor building applications</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                         |
| Description  | Thickness <sup>(1)</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 15 microns                                                                                              |
|              | Composition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Front: 15 microns top coat<br>Back: 5, 7, 10 or 12 microns backing coat<br>Double-side finish available |
|              | Gloss <sup>(1)</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 30 GU<br>Other gloss levels on request                                                                  |
|              | Colour                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | A9002, A9010, A9881<br>Other colours on request                                                         |
|              | Appearance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Smooth                                                                                                  |
|              | Temporary protection (optional)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Self-adhesive film or heat-sealed film                                                                  |
|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                         |
| Performance  | Adhesion of the coating (T-bend)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ≤ 2 T                                                                                                   |
|              | Resistance to cracking on bending (T-bend)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ≤ 3 T                                                                                                   |
|              | Impact resistance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 15 J                                                                                                    |
|              | Clemen scratch resistance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ≥ 1 kg                                                                                                  |
|              | Surface "pencil" hardness                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | HB to H                                                                                                 |
|              | Condensation resistance:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                         |
|              | <ul style="list-style-type: none"> <li>QCT test</li> <li>Corrosion protection category</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 500 hours<br>CPI2                                                                                       |
|              | Salt spray test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 150 hours                                                                                               |
|              | Fire behaviour classification (EN 13501-1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | A1                                                                                                      |
| Remarks      | <p>These performance characteristics refer specifically to metallic coating Z100 and Optigal<sup>®</sup> ZM60 (guaranteed minimum).<br/>                     If any product (film, oil, foam, glue, paint etc) is to be applied after coil delivery, compatibility with the coating needs to be checked first.<br/>                     Although we take great care to reproduce the same aesthetic aspect on each coil, ArcelorMittal cannot guarantee the visual consistency from one single order item to another. Consequently, you need to consider placing one single order for one building; standard samples can only serve as a guide.</p> |                                                                                                         |

(1) Nominal value, tolerance according to EN 10169

# Estetic<sup>®</sup> Standard

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                               |                                                                                            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Properties                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <ul style="list-style-type: none"> <li>• Good corrosion resistance</li> <li>• Good formability</li> <li>• Thermosetting paint</li> <li>• Surface treatment and paint: free of hexavalent chromium and heavy metals</li> </ul> |                                                                                            |
| Applications                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>Basic coating for indoor applications: shelves, radiators, casings</b>                                                                                                                                                     |                                                                                            |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Thickness <sup>(1)</sup>                                                                                                                                                                                                      | 25 microns                                                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Composition                                                                                                                                                                                                                   | Front: 5 microns primer + 20 microns top coat<br>Back: 5, 7, 10 or 12 microns backing coat |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Gloss (Gardner 60°) <sup>(1)</sup>                                                                                                                                                                                            | 30 GU<br>Other gloss levels on request                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Colours                                                                                                                                                                                                                       | Colour palette<br>Other colours on request                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Appearance                                                                                                                                                                                                                    | Smooth                                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Temporary protection (optional)                                                                                                                                                                                               | Self-adhesive film or heat-sealed film                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                               |                                                                                            |
| Performance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Adhesion of the coating (T-bend)                                                                                                                                                                                              | ≤ 2 T                                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Resistance to cracking on bending (T-bend)                                                                                                                                                                                    | ≤ 3 T                                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Impact resistance                                                                                                                                                                                                             | 18 J                                                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Surface "pencil" hardness                                                                                                                                                                                                     | HB to H                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Condensation resistance:                                                                                                                                                                                                      |                                                                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | • QCT test                                                                                                                                                                                                                    | 1000 hours                                                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | • Corrosion protection category                                                                                                                                                                                               | CPI3                                                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Salt spray test                                                                                                                                                                                                               | 240 hours                                                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Fire behaviour classification (EN 13501-1)                                                                                                                                                                                    | A1                                                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Resistance to acids and bases                                                                                                                                                                                                 | Good                                                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Resistance to solvents:                                                                                                                                                                                                       |                                                                                            |
| Remarks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | • Aliphatics and alcohols                                                                                                                                                                                                     | Very good                                                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | • Ketones                                                                                                                                                                                                                     | Low                                                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | • Aromatics                                                                                                                                                                                                                   | Good to very good                                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Resistance to mineral oils                                                                                                                                                                                                    | Very good                                                                                  |
| <p>These performance characteristics refer specifically to metallic coating Z100 and Optigal<sup>®</sup> ZM60 (guaranteed minimum).<br/>                     If any product (film, oil, foam, glue, paint etc) is to be applied after coil delivery, compatibility with the coating needs to be checked first.<br/>                     Although we take great care to reproduce the same aesthetic aspect on each coil, ArcelorMittal cannot guarantee the visual consistency from one single order item to another. Consequently, you need to consider placing one single order for one building; standard samples can only serve as a guide.</p> |                                                                                                                                                                                                                               |                                                                                            |

(1) Nominal value, tolerance according to EN 10169

# Estetic<sup>®</sup> Clean

## Properties

- Use in aggressive and very wet indoor environments
- Very good formability
- Scratch resistant
- High chemical resistance
- Food safety (inert certificate on request)
- Resistance to stains, dirt, cleaning products etc
- Colaminated coating (film + paint)
- Surface treatment and paint: free of hexavalent chromium and heavy metals

## Applications

**Panels for cold stores (ceilings, wall partitions, doors etc), food stores**

## Description

|                                                                                                      |                                                                                                                                                                          |
|------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Thickness <sup>(1)</sup>                                                                             | 50 microns                                                                                                                                                               |
| Composition                                                                                          | Front: 3 layers (15 microns primer, 20 microns base coat, 15 microns film)<br>Back: 5, 7, 10 or 12 microns backing coat                                                  |
| Gloss (Gardner 60°) <sup>(1)</sup>                                                                   | 17 GU                                                                                                                                                                    |
| Colours                                                                                              | Specific colours on request                                                                                                                                              |
| Appearance                                                                                           | Smooth                                                                                                                                                                   |
| Adhesion of the coating (T-bend)                                                                     | 0 T                                                                                                                                                                      |
| Resistance to cracking on bending (T-bend)                                                           | ≤ 1 T                                                                                                                                                                    |
| Impact resistance                                                                                    | 18 J                                                                                                                                                                     |
| Surface "pencil" hardness                                                                            | 2H                                                                                                                                                                       |
| Clemen scratch resistance                                                                            | ≥ 5 kg                                                                                                                                                                   |
| Salt spray test                                                                                      | 500 hours                                                                                                                                                                |
| Condensation resistance:                                                                             |                                                                                                                                                                          |
| • QCT test                                                                                           | 2000 hours                                                                                                                                                               |
| • Corrosion protection category                                                                      | CPI5                                                                                                                                                                     |
| Resistance to temperature                                                                            | -20°C to 100°C (continuous exposure)<br>After exposure to 160°C for 400 hours, no loss of gloss<br>+200°C (maximum spot temperature)<br>-40°C (minimum spot temperature) |
| Fire behaviour classification (EN 13501-1)                                                           | A1                                                                                                                                                                       |
| Food safety                                                                                          | Inert certificate (on request)                                                                                                                                           |
| Compliance with European directives 2002/95/EC and 2011/65/EC on electrical and electronic equipment | ROHS-compliant                                                                                                                                                           |
| Resistance to household products                                                                     | Very good                                                                                                                                                                |
| Resistance to acids and bases                                                                        | Very good                                                                                                                                                                |
| Resistance to solvents:                                                                              |                                                                                                                                                                          |
| • Aliphatics and alcohols                                                                            | Very good                                                                                                                                                                |
| • Ketones                                                                                            | Very good                                                                                                                                                                |
| • Aromatics                                                                                          | Very good                                                                                                                                                                |
| Resistance to mineral oils                                                                           | Very good                                                                                                                                                                |

## Remarks

These performance characteristics refer specifically to metallic coating Z225.  
 If any product (film, oil, foam, glue, paint etc) is to be applied after coil delivery, compatibility with the coating needs to be checked first.

*(1) Nominal value, tolerance according to EN 10169*

# Estetic<sup>®</sup> Flex

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                            |                                                                                                                            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Properties                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <ul style="list-style-type: none"> <li>• Very good formability</li> <li>• Very good resistance to abrasion</li> <li>• Good surface hardness</li> <li>• Thermosetting paint</li> <li>• Surface treatment and paint: free of hexavalent chromium and heavy metals</li> </ul> |                                                                                                                            |
| Applications                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Internal building and general industry applications that require high flexibility: HVAC, furniture etc                                                                                                                                                                     |                                                                                                                            |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Thickness <sup>(1)</sup>                                                                                                                                                                                                                                                   | 25 microns                                                                                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Composition                                                                                                                                                                                                                                                                | Front: 5 microns primer + 20 microns top coat<br>Back: 5, 7, 10 or 12 microns backing coat<br>Double-side finish available |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Gloss (Gardner 60°) <sup>(1)</sup>                                                                                                                                                                                                                                         | Usual: 30-80 GU                                                                                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Colours                                                                                                                                                                                                                                                                    | Specific colours on request                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Appearance                                                                                                                                                                                                                                                                 | Smooth, grained                                                                                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Temporary protection (optional)                                                                                                                                                                                                                                            | Self-adhesive film or heat-sealed film on smooth coating                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                            |                                                                                                                            |
| Performance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Adhesion of the coating (T-bend)                                                                                                                                                                                                                                           | 0 T*                                                                                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Resistance to cracking on bending (T-bend)                                                                                                                                                                                                                                 | 1 T*                                                                                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Impact resistance                                                                                                                                                                                                                                                          | 18 J                                                                                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Surface "pencil" hardness                                                                                                                                                                                                                                                  | HB to H                                                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Salt spray test                                                                                                                                                                                                                                                            | 240 hours                                                                                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Condensation resistance:                                                                                                                                                                                                                                                   |                                                                                                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | • QCT test                                                                                                                                                                                                                                                                 | 1000 hours                                                                                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | • Corrosion protection category                                                                                                                                                                                                                                            | CPI3                                                                                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Fire behaviour classification (EN 13501-1)                                                                                                                                                                                                                                 | A1                                                                                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Resistance to acids and bases                                                                                                                                                                                                                                              | Good to very good                                                                                                          |
| Remarks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Resistance to solvents:                                                                                                                                                                                                                                                    |                                                                                                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | • Aliphatics and alcohols                                                                                                                                                                                                                                                  | Very good                                                                                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | • Ketones                                                                                                                                                                                                                                                                  | Low                                                                                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | • Aromatics                                                                                                                                                                                                                                                                | Good                                                                                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Resistance to mineral oils                                                                                                                                                                                                                                                 | Very good                                                                                                                  |
| <p>These performance characteristics refer specifically to metallic coating Z100.</p> <p>If any product (film, oil, foam, glue, paint etc) is to be applied after coil delivery, compatibility with the coating needs to be checked first. Although we take great care to reproduce the same aesthetic aspect on each coil, ArcelorMittal cannot guarantee the visual consistency from one single order item to another. Consequently, you need to consider placing one single order for one building; standard samples can only serve as a guide.</p> |                                                                                                                                                                                                                                                                            |                                                                                                                            |
| (1) Nominal value, tolerance according to EN 10169                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                            |                                                                                                                            |
| * Data valid for a steel thickness ≤ 1.5 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                            |                                                                                                                            |



# Estetic<sup>®</sup> Mat

## Properties

- Good formability
- Matt appearance
- Easy to clean
- Excellent resistance to metal marking
- Thermosetting paint
- Surface treatment and paint: free of hexavalent chromium and heavy metals

## Applications

**Metal ceilings (capping, ceiling tiles, perforated panels, accessories etc), internal panels, doors**

## Description

|                                    |                                                                                            |
|------------------------------------|--------------------------------------------------------------------------------------------|
| Thickness <sup>(1)</sup>           | 25 microns                                                                                 |
| Composition                        | Front: 5 microns primer + 20 microns top coat<br>Back: 5, 7, 10 or 12 microns backing coat |
| Gloss (Gardner 60°) <sup>(1)</sup> | Usual: 15 GU<br>Possible: 5-20 GU<br>≤ 5 GU for wrinkled surfaces                          |
| Colours                            | Specific colours on request                                                                |
| Appearance                         | Smooth, with a fine or rough wrinkle                                                       |
| Temporary protection (optional)    | Self-adhesive film or heat-sealed film                                                     |

## Performance

|                                            |                   |
|--------------------------------------------|-------------------|
| Adhesion of the coating (T-bend)           | ≤ 0.5 T           |
| Resistance to cracking on bending (T-bend) | ≤ 2 T             |
| Impact resistance                          | 18 J              |
| Surface "pencil" hardness                  | HB to F           |
| Salt spray test                            | 240 hours         |
| Condensation resistance:                   |                   |
| • QCT test                                 | 1000 hours        |
| • Corrosion protection category            | CPI3              |
| Fire behaviour classification (EN 13501-1) | A1                |
| Resistance to acids and bases              | Good              |
| Resistance to solvents:                    |                   |
| • Aliphatics and alcohols                  | Good to very good |
| • Ketones                                  | Low               |
| • Aromatics                                | Good              |
| Resistance to mineral oils                 | Very good         |

## Remarks

These performance characteristics refer specifically to metallic coating Z100 and Optigal<sup>®</sup> ZM60 (guaranteed minimum). If any product (film, oil, foam, glue, paint etc) is to be applied after coil delivery, compatibility with the coating needs to be checked first. Although we take great care to reproduce the same aesthetic aspect on each coil, ArcelorMittal cannot guarantee the visual consistency from one single order item to another. Consequently, you need to consider placing one single order for one building; standard samples can only serve as a guide.

*(1) Nominal value, tolerance according to EN 10169*

# Estetic<sup>®</sup> Lighting 82

|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                            |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Properties   | <ul style="list-style-type: none"> <li>• Very high reflectance</li> <li>• Good formability</li> <li>• Thermosetting paint</li> <li>• Surface treatment and paint: free of hexavalent chromium and heavy metals</li> </ul>                                                                                                                                                                                                                                                                                                                              |                                                                                            |
| Applications | Lighting                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                            |
| Description  | Thickness <sup>(1)</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 25 microns                                                                                 |
|              | Composition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Front: 5 microns primer + 20 microns top coat<br>Back: 5, 7, 10 or 12 microns backing coat |
|              | Gloss (Gardner 60°) <sup>(1)</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Usual: 50-90 GU                                                                            |
|              | Light reflectance (Y)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ≥ 82                                                                                       |
|              | Colours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Various shades of white                                                                    |
|              | Appearance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Smooth                                                                                     |
|              | Temporary protection (optional)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Self-adhesive film or heat-sealed film                                                     |
|              | Adhesion of the coating (T-bend)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.5 T                                                                                      |
| Performance  | Resistance to cracking on bending (T-bend)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2 T                                                                                        |
|              | Impact resistance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 18 J                                                                                       |
|              | Surface "pencil" hardness                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | HB to F                                                                                    |
|              | Salt spray test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 240 hours                                                                                  |
|              | Condensation resistance:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                            |
|              | • QCT test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1000 hours                                                                                 |
|              | • Corrosion protection category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | CPI3                                                                                       |
|              | Compliance with European directives 2002/95/EC and 2011/65/EC on electrical and electronic equipment                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ROHS-compliant                                                                             |
|              | Resistance to acids and bases                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Good to very good                                                                          |
|              | Resistance to solvents:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                            |
|              | • Aliphatics and alcohols                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Good to very good                                                                          |
|              | • Ketones                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Low                                                                                        |
|              | • Aromatics                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Good to very good                                                                          |
| Remarks      | Resistance to mineral oils                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Very good                                                                                  |
|              | <p>These performance characteristics refer specifically to metallic coating Z100.</p> <p>If any product (film, oil, foam, glue, paint etc) is to be applied after coil delivery, compatibility with the coating needs to be checked first. Although we take great care to reproduce the same aesthetic aspect on each coil, ArcelorMittal cannot guarantee the visual consistency from one single order item to another. Consequently, you need to consider placing one single order for one building; standard samples can only serve as a guide.</p> |                                                                                            |

*(1) Nominal value, tolerance according to EN 10169*

# Estetic<sup>®</sup> High Tech

## Properties

- Very good resistance to press forming
- High aesthetic appeal
- Low gloss finish
- Thermosetting paint
- Surface treatment and paint: free of hexavalent chromium and heavy metals

## Applications

**Electronic goods, hifi equipment, computers etc**

## Description

|                                    |                                                                                                               |
|------------------------------------|---------------------------------------------------------------------------------------------------------------|
| Thickness <sup>(1)</sup>           | 22-25 microns                                                                                                 |
| Composition                        | Front: 5 microns primer + 20 microns top coat<br>Back: 3 microns Estetic <sup>®</sup> Conductive backing coat |
| Gloss (Gardner 60°) <sup>(1)</sup> | ≤ 10 GU                                                                                                       |
| Colours                            | Specific colours on request                                                                                   |
| Appearance                         | Smooth                                                                                                        |
| Temporary protection (optional)    | Self-adhesive film or heat-sealed film on smooth coating                                                      |

## Performance

|                                                                                                      |                   |
|------------------------------------------------------------------------------------------------------|-------------------|
| Adhesion of the coating (T-bend)                                                                     | 0 T               |
| Resistance to cracking on bending (T-bend)                                                           | 1 T               |
| Impact resistance                                                                                    | 18 J              |
| Surface "pencil" hardness                                                                            | H to 2H           |
| Salt spray test                                                                                      | 240 hours         |
| Condensation resistance:                                                                             |                   |
| • QCT test                                                                                           | 1000 hours        |
| • Corrosion protection category                                                                      | CPI3              |
| Compliance with European directives 2002/95/EC and 2011/65/EC on electrical and electronic equipment | ROHS-compliant    |
| Temperature resistance                                                                               | -20°C to 90°C     |
| Resistance to acids and bases                                                                        | Good              |
| Resistance to solvents:                                                                              |                   |
| • Aliphatics and alcohols                                                                            | Good to very good |
| • Ketones                                                                                            | Low               |
| • Aromatics                                                                                          | Very good         |
| Resistance to mineral oils                                                                           | Very good         |

## Remarks

These performance characteristics refer specifically to metallic coating EZ 25/25.  
 If any product (film, oil, foam, glue, paint etc) is to be applied after coil delivery, compatibility with the coating needs to be checked first.  
 Although we take great care to reproduce the same aesthetic aspect on each coil, ArcelorMittal cannot guarantee the visual consistency from one single order item to another. Consequently, you need to consider placing one single order for one application; standard samples can only serve as a guide.

*(1) Nominal value, tolerance according to EN 10169*

# Estetic<sup>®</sup> Conductive

|                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                      |                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Properties                                                                                                                                                                                                                                                                                                                            | <ul style="list-style-type: none"> <li>Conductive thermosetting paint with anti-fingerprint properties</li> <li>Surface treatment and paint: free of hexavalent chromium and heavy metals</li> </ul> |                                                                                     |
| Applications                                                                                                                                                                                                                                                                                                                          | <b>Teletronic goods, hifi, computers, weldable structures</b>                                                                                                                                        |                                                                                     |
| Description                                                                                                                                                                                                                                                                                                                           | Thickness <sup>(1)</sup>                                                                                                                                                                             | 3 microns                                                                           |
|                                                                                                                                                                                                                                                                                                                                       | Gloss (Gardner 60°) <sup>(1)</sup>                                                                                                                                                                   | 10 GU                                                                               |
|                                                                                                                                                                                                                                                                                                                                       | Colour                                                                                                                                                                                               | Clear coat                                                                          |
|                                                                                                                                                                                                                                                                                                                                       | Appearance                                                                                                                                                                                           | Smooth                                                                              |
|                                                                                                                                                                                                                                                                                                                                       | Temporary protection (optional)                                                                                                                                                                      | Self-adhesive film or heat-sealed film                                              |
| Performance                                                                                                                                                                                                                                                                                                                           | Adhesion of the coating (T-bend)                                                                                                                                                                     | ≤ 0.5 T                                                                             |
|                                                                                                                                                                                                                                                                                                                                       | Resistance to cracking on bending (T-bend)                                                                                                                                                           | ≤ 1 T                                                                               |
|                                                                                                                                                                                                                                                                                                                                       | Impact resistance                                                                                                                                                                                    | 18 J                                                                                |
|                                                                                                                                                                                                                                                                                                                                       | Surface "pencil" hardness                                                                                                                                                                            | HB to H                                                                             |
|                                                                                                                                                                                                                                                                                                                                       | Corrosion resistance:                                                                                                                                                                                |                                                                                     |
|                                                                                                                                                                                                                                                                                                                                       | • Salt spray test                                                                                                                                                                                    | 72 hours (< 5% red rust)                                                            |
|                                                                                                                                                                                                                                                                                                                                       | Condensation resistance:                                                                                                                                                                             |                                                                                     |
|                                                                                                                                                                                                                                                                                                                                       | • QCT test                                                                                                                                                                                           | 500 hours                                                                           |
|                                                                                                                                                                                                                                                                                                                                       | • Corrosion protection category                                                                                                                                                                      | CPI2                                                                                |
|                                                                                                                                                                                                                                                                                                                                       | Surface conductivity (Loresta test)                                                                                                                                                                  | < 1 milli-ohm                                                                       |
|                                                                                                                                                                                                                                                                                                                                       | Compliance with European directives 2002/95/EC and 2011/65/EC on electrical and electronic equipment                                                                                                 | ROHS-compliant                                                                      |
|                                                                                                                                                                                                                                                                                                                                       | Static friction coefficient                                                                                                                                                                          | 0.13                                                                                |
| Remarks                                                                                                                                                                                                                                                                                                                               | Temperature resistance                                                                                                                                                                               | No change in appearance after 1 hour at 200°C                                       |
|                                                                                                                                                                                                                                                                                                                                       | Chemical resistance                                                                                                                                                                                  | Very good resistance to alkaline solutions (ammonia 2%, NaOH 2%), ethanol, methanol |
| <p>These performance characteristics refer specifically to metallic coating EZ 25/25 (guaranteed minimum).<br/>If any product (film, oil, foam, glue, paint etc) is to be applied after coil delivery, compatibility with the coating needs to be checked first.</p> <p><i>(1) Nominal value, tolerance according to EN 10169</i></p> |                                                                                                                                                                                                      |                                                                                     |

# Estetic<sup>®</sup> Tex

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                            |                                                                                                                          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Properties                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <ul style="list-style-type: none"> <li>• Very good resistance to abrasion</li> <li>• Good formability</li> <li>• Very good surface hardness</li> <li>• Thermosetting paint</li> <li>• Surface treatment and paint: free of hexavalent chromium and heavy metals</li> </ul> |                                                                                                                          |
| Applications                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>Metal furniture, shelves and shelving units, housings of domestic appliances, air conditioners, radiators, casings etc</b>                                                                                                                                              |                                                                                                                          |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Thickness <sup>(1)</sup>                                                                                                                                                                                                                                                   | 35 microns                                                                                                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Composition                                                                                                                                                                                                                                                                | Front: 20 microns of coloured base coat<br>+ 15 microns of textured varnish<br>Back: 5, 7, 10 or 12 microns backing coat |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Gloss (Gardner 60°) <sup>(1)</sup>                                                                                                                                                                                                                                         | Usual: 30-50 GU                                                                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Colours                                                                                                                                                                                                                                                                    | Specific colours on request                                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Appearance                                                                                                                                                                                                                                                                 | Textured                                                                                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Temporary protection (optional)                                                                                                                                                                                                                                            | Not applicable                                                                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Adhesion of the coating (T-bend)                                                                                                                                                                                                                                           | ≤ 0,5 T                                                                                                                  |
| Performance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Resistance to cracking on bending (T-bend)                                                                                                                                                                                                                                 | ≤ 2 T                                                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Impact resistance                                                                                                                                                                                                                                                          | 18 J                                                                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Surface "pencil" hardness                                                                                                                                                                                                                                                  | H to 2H                                                                                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Salt spray test                                                                                                                                                                                                                                                            | 240 hours                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Condensation resistance:                                                                                                                                                                                                                                                   |                                                                                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | • QCT test                                                                                                                                                                                                                                                                 | 1000 hours                                                                                                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | • Corrosion protection category                                                                                                                                                                                                                                            | CPI3                                                                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Resistance to acids and bases                                                                                                                                                                                                                                              | Good to very good                                                                                                        |
| Remarks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Resistance to solvents:                                                                                                                                                                                                                                                    |                                                                                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | • Aliphatics and alcohols                                                                                                                                                                                                                                                  | Very good                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | • Ketones                                                                                                                                                                                                                                                                  | Low                                                                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | • Aromatics                                                                                                                                                                                                                                                                | Good                                                                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Resistance to mineral oils                                                                                                                                                                                                                                                 | Very good                                                                                                                |
| These performance characteristics refer specifically to metallic coating Z100.<br>If any product (film, oil, foam, glue, paint etc) is to be applied after coil delivery, compatibility with the coating needs to be checked first.<br>Although we take great care to reproduce the same aesthetic aspect on each coil, ArcelorMittal cannot guarantee the visual consistency from one single order item to another. Consequently, you need to consider placing one single order for one building; standard samples can only serve as a guide. |                                                                                                                                                                                                                                                                            |                                                                                                                          |

*(1) Nominal value, tolerance according to EN 10169*

# Estetic<sup>®</sup> Wipe Board

|              |                                                                                                                                                                                                                                                                                        |                                                                                                                                                                            |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Properties   | <ul style="list-style-type: none"> <li>• High-gloss finish</li> <li>• Suitable for use with dry marker pens</li> <li>• Surface treatment and paint: free of hexavalent chromium and heavy metals</li> </ul>                                                                            |                                                                                                                                                                            |
| Applications | <b>Wipe boards</b>                                                                                                                                                                                                                                                                     |                                                                                                                                                                            |
| Description  | Thickness <sup>(1)</sup>                                                                                                                                                                                                                                                               | 25 microns                                                                                                                                                                 |
|              | Gloss (Gardner 60°) <sup>(1)</sup>                                                                                                                                                                                                                                                     | 80 to 90 GU                                                                                                                                                                |
|              | Colours                                                                                                                                                                                                                                                                                | Specific colours on request                                                                                                                                                |
|              | Appearance                                                                                                                                                                                                                                                                             | Smooth                                                                                                                                                                     |
|              | Temporary protection (optional)                                                                                                                                                                                                                                                        | Self-adhesive film or heat-sealed film                                                                                                                                     |
| Performance  | Adhesion of the coating (T-bend)                                                                                                                                                                                                                                                       | ≤ 3 T                                                                                                                                                                      |
|              | Surface "pencil" hardness                                                                                                                                                                                                                                                              | F to H                                                                                                                                                                     |
|              | Condensation resistance:                                                                                                                                                                                                                                                               |                                                                                                                                                                            |
|              | • QCT test                                                                                                                                                                                                                                                                             | 500 hours                                                                                                                                                                  |
|              | • Corrosion protection category                                                                                                                                                                                                                                                        | CPI2                                                                                                                                                                       |
|              | Corrosion resistance:                                                                                                                                                                                                                                                                  |                                                                                                                                                                            |
|              | • Salt spray test                                                                                                                                                                                                                                                                      | 150 hours                                                                                                                                                                  |
|              | Wipeability                                                                                                                                                                                                                                                                            | Little or no staining after 50 cycles of marking and wiping off. Marker pens recommended by ArcelorMittal, wipeability guaranteed if a marked board is wiped the same day. |
| Remarks      | These performance characteristics refer specifically to metallic coating Z100 and Optigal <sup>®</sup> ZM60 (guaranteed minimum).<br>If any product (film, oil, foam, glue, paint etc) is to be applied after coil delivery, compatibility with the coating needs to be checked first. |                                                                                                                                                                            |
|              | <i>(1) Nominal value, tolerance according to EN 10169</i>                                                                                                                                                                                                                              |                                                                                                                                                                            |

# Estetic<sup>®</sup> Chalk Board

|                                                                                                                                                                                                                                                                             |                                                                                                                                                                                          |                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| Properties                                                                                                                                                                                                                                                                  | <ul style="list-style-type: none"> <li>• Low gloss finish</li> <li>• Suitable with chalk</li> <li>• Surface treatment and paint: free of hexavalent chromium and heavy metals</li> </ul> |                   |
| Applications                                                                                                                                                                                                                                                                | <b>Chalk boards</b>                                                                                                                                                                      |                   |
| Description                                                                                                                                                                                                                                                                 | Thickness <sup>(1)</sup>                                                                                                                                                                 | 25 to 40 microns  |
|                                                                                                                                                                                                                                                                             | Gloss (Gardner 60°) <sup>(1)</sup>                                                                                                                                                       | 4 to 7 GU         |
|                                                                                                                                                                                                                                                                             | Colours                                                                                                                                                                                  | Green, black      |
|                                                                                                                                                                                                                                                                             | Appearance                                                                                                                                                                               | Smooth            |
|                                                                                                                                                                                                                                                                             | Temporary protection (optional)                                                                                                                                                          | On request        |
| Performance                                                                                                                                                                                                                                                                 | Adhesion of the coating (T-bend)                                                                                                                                                         | ≤ 2 T             |
|                                                                                                                                                                                                                                                                             | Resistance to cracking on bending (T-bend)                                                                                                                                               | ≤ 3 T             |
|                                                                                                                                                                                                                                                                             | Surface "pencil" hardness                                                                                                                                                                | 2H                |
|                                                                                                                                                                                                                                                                             | Condensation resistance:                                                                                                                                                                 |                   |
|                                                                                                                                                                                                                                                                             | <ul style="list-style-type: none"> <li>• QCT test</li> <li>• Corrosion protection category</li> </ul>                                                                                    | 500 hours<br>CPI2 |
| Remarks                                                                                                                                                                                                                                                                     | Corrosion resistance:                                                                                                                                                                    |                   |
|                                                                                                                                                                                                                                                                             | <ul style="list-style-type: none"> <li>• Salt spray test</li> </ul>                                                                                                                      | 150 hours         |
| <p>These performance characteristics refer specifically to metallic coating Z100 (guaranteed minimum).<br/>           If any product (film, oil, foam, glue, paint etc) is to be applied after coil delivery, compatibility with the coating needs to be checked first.</p> |                                                                                                                                                                                          |                   |
| (1) Nominal value, tolerance according to EN 10169                                                                                                                                                                                                                          |                                                                                                                                                                                          |                   |

# Estetic<sup>®</sup> Casa Access

|              |                                                                                                                                                                                                                                                          |                                                                   |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| Properties   | <ul style="list-style-type: none"> <li>• Entry-level product ideal for built-in appliances</li> <li>• Thermosetting paint</li> <li>• Surface treatment and paint: free of hexavalent chromium and heavy metals</li> </ul>                                |                                                                   |
| Applications | <b>Entry-level product ideal for built-in appliances</b><br><b>(refrigerators, chest freezers, microwave ovens, water heater casings etc)</b>                                                                                                            |                                                                   |
| Description  | Thickness <sup>(1)</sup>                                                                                                                                                                                                                                 | 17 microns                                                        |
|              | Composition                                                                                                                                                                                                                                              | Front: 17 microns<br>Back: 5 or 7 microns high-gloss backing coat |
|              | Gloss (Gardner 60°) <sup>(1)</sup>                                                                                                                                                                                                                       | Usual: 40-80 GU                                                   |
|              | Colours                                                                                                                                                                                                                                                  | Specific colours on request                                       |
|              | Appearance                                                                                                                                                                                                                                               | Smooth                                                            |
|              | Temporary protection (optional)                                                                                                                                                                                                                          | Self-adhesive film or heat-sealed film                            |
| Performance  | Adhesion of the coating (T-bend)                                                                                                                                                                                                                         | ≤ 2 T                                                             |
|              | Resistance to cracking on bending (T-bend)                                                                                                                                                                                                               | ≤ 2 T                                                             |
|              | Impact resistance                                                                                                                                                                                                                                        | 18 J                                                              |
|              | Surface "pencil" hardness                                                                                                                                                                                                                                | HB to H                                                           |
|              | Adherence with no cracks (Erichsen test)                                                                                                                                                                                                                 | 6 mm                                                              |
|              | Adhesion on cross-cut                                                                                                                                                                                                                                    | 100%                                                              |
|              | Salt spray test                                                                                                                                                                                                                                          | 192 hours                                                         |
|              | Condensation resistance:                                                                                                                                                                                                                                 |                                                                   |
|              | <ul style="list-style-type: none"> <li>• QCT test</li> <li>• Corrosion protection category</li> </ul>                                                                                                                                                    | 500 hours<br>CPI2                                                 |
| Remarks      | Compliance with European directives 2002/95/EC and 2011/65/EC on electrical and electronic equipment ROHS-compliant                                                                                                                                      |                                                                   |
|              | These performance characteristics refer specifically to metallic coating Z100 (guaranteed minimum).<br>If any product (film, oil, foam, glue, paint etc) is to be applied after coil delivery, compatibility with the coating needs to be checked first. |                                                                   |
|              | (1) Nominal value, tolerance according to EN 10169                                                                                                                                                                                                       |                                                                   |



# Estetic® Casa Classic

|              |                                                                                                                                                                                                                                                                                               |                                                                    |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| Properties   | <ul style="list-style-type: none"> <li>• Good compromise in terms of flexibility and surface hardness</li> <li>• Good stain resistance</li> <li>• Thermosetting paint</li> <li>• Surface treatment and paint: free of hexavalent chromium and heavy metals</li> </ul>                         |                                                                    |
| Applications | <b>Domestic appliances: front and side panels, doors, lids, covers and control panels of domestic appliances, e.g. refrigerators, chest freezers, microwave ovens, water heaters and small domestic appliances</b>                                                                            |                                                                    |
| Description  | Thickness <sup>(1)</sup>                                                                                                                                                                                                                                                                      | 25 microns                                                         |
|              | Composition                                                                                                                                                                                                                                                                                   | Front: 25 microns<br>Back: 7 or 10 microns high-gloss backing coat |
|              | Gloss (Gardner 60°) <sup>(1)</sup>                                                                                                                                                                                                                                                            | Usual: 30-90 GU                                                    |
|              | Colours                                                                                                                                                                                                                                                                                       | Specific colours on request                                        |
|              | Appearance                                                                                                                                                                                                                                                                                    | Smooth, orange peel                                                |
|              | Temporary protection (optional)                                                                                                                                                                                                                                                               | Self-adhesive film or heat-sealed film                             |
| Performance  | Adhesion of the coating (T-bend)                                                                                                                                                                                                                                                              | ≤ 1 T                                                              |
|              | Resistance to cracking on bending (T-bend)                                                                                                                                                                                                                                                    | ≤ 2 T                                                              |
|              | Impact resistance                                                                                                                                                                                                                                                                             | 18 J                                                               |
|              | Surface "pencil" hardness                                                                                                                                                                                                                                                                     | HB to H                                                            |
|              | Adherence with no cracks (Erichsen test)                                                                                                                                                                                                                                                      | 6 mm                                                               |
|              | Adhesion on cross-cut                                                                                                                                                                                                                                                                         | 100%                                                               |
|              | Salt spray test                                                                                                                                                                                                                                                                               | 240 hours                                                          |
|              | Condensation resistance:                                                                                                                                                                                                                                                                      |                                                                    |
|              | • QCT test                                                                                                                                                                                                                                                                                    | 1000 hours                                                         |
|              | • Corrosion protection category                                                                                                                                                                                                                                                               | CPI3                                                               |
|              | UV resistance                                                                                                                                                                                                                                                                                 | 120 hours                                                          |
|              | Compliance with European directives 2002/95/EC and 2011/65/EC on electrical and electronic equipment                                                                                                                                                                                          | ROHS-compliant                                                     |
|              | Resistance to household products                                                                                                                                                                                                                                                              | Good                                                               |
|              | Stain resistance                                                                                                                                                                                                                                                                              | Good                                                               |
| Remarks      | Resistance to acids and bases                                                                                                                                                                                                                                                                 | Good                                                               |
|              | Resistance to solvents:                                                                                                                                                                                                                                                                       |                                                                    |
|              | • Aliphatics and alcohols                                                                                                                                                                                                                                                                     | Good                                                               |
|              | • Ketones                                                                                                                                                                                                                                                                                     | Low                                                                |
|              | • Aromatics                                                                                                                                                                                                                                                                                   | Good                                                               |
|              | Resistance to mineral oils                                                                                                                                                                                                                                                                    | Very good                                                          |
| Remarks      | These performance characteristics refer specifically to metallic coating Z100 (guaranteed minimum).<br>Cold rolled available on request.<br>If any product (film, oil, foam, glue, paint etc) is to be applied after coil delivery, compatibility with the coating needs to be checked first. |                                                                    |
|              | (1) Nominal value, tolerance according to EN 10169                                                                                                                                                                                                                                            |                                                                    |

# Estetic® Casa Classic Flex

|                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                |                                                                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| Properties                                                                                                                                                                                                                                               | <ul style="list-style-type: none"> <li>• Very good formability</li> <li>• Good stain resistance</li> <li>• Thermosetting paint</li> <li>• Surface treatment and paint: free of hexavalent chromium and heavy metals</li> </ul> |                                                                    |
| Applications                                                                                                                                                                                                                                             | Domestic appliance parts with high deformation                                                                                                                                                                                 |                                                                    |
| Description                                                                                                                                                                                                                                              | Thickness <sup>(1)</sup>                                                                                                                                                                                                       | 25 microns                                                         |
|                                                                                                                                                                                                                                                          | Composition                                                                                                                                                                                                                    | Front: 25 microns<br>Back: 7 or 10 microns high-gloss backing coat |
|                                                                                                                                                                                                                                                          | Gloss (Gardner 60°) <sup>(1)</sup>                                                                                                                                                                                             | Usual: 30-90 GU                                                    |
|                                                                                                                                                                                                                                                          | Colours                                                                                                                                                                                                                        | Specific colours on request                                        |
|                                                                                                                                                                                                                                                          | Appearance                                                                                                                                                                                                                     | Smooth, grained, orange peel                                       |
|                                                                                                                                                                                                                                                          | Temporary protection (optional)                                                                                                                                                                                                | Self-adhesive film or heat-sealed film                             |
| Performance                                                                                                                                                                                                                                              | Adhesion of the coating (T-bend)                                                                                                                                                                                               | ≤ 0.5 T                                                            |
|                                                                                                                                                                                                                                                          | Resistance to cracking on bending (T-bend)                                                                                                                                                                                     | ≤ 1 T                                                              |
|                                                                                                                                                                                                                                                          | Impact resistance                                                                                                                                                                                                              | 18 J                                                               |
|                                                                                                                                                                                                                                                          | Surface "pencil" hardness                                                                                                                                                                                                      | F to H                                                             |
|                                                                                                                                                                                                                                                          | Adherence with no cracks (Erichsen test)                                                                                                                                                                                       | 6 mm                                                               |
|                                                                                                                                                                                                                                                          | Adhesion on cross-cut                                                                                                                                                                                                          | 100%                                                               |
|                                                                                                                                                                                                                                                          | Salt spray test                                                                                                                                                                                                                | 240 hours                                                          |
|                                                                                                                                                                                                                                                          | Condensation resistance:                                                                                                                                                                                                       |                                                                    |
|                                                                                                                                                                                                                                                          | • QCT test                                                                                                                                                                                                                     | 1000 hours                                                         |
|                                                                                                                                                                                                                                                          | • Corrosion protection category                                                                                                                                                                                                | CPI3                                                               |
|                                                                                                                                                                                                                                                          | UV resistance                                                                                                                                                                                                                  | 120 hours                                                          |
|                                                                                                                                                                                                                                                          | Compliance with European directives 2002/95/EC and 2011/65/EC on electrical and electronic equipment                                                                                                                           | ROHS-compliant                                                     |
|                                                                                                                                                                                                                                                          | Resistance to household products                                                                                                                                                                                               | Good                                                               |
|                                                                                                                                                                                                                                                          | Stain resistance                                                                                                                                                                                                               | Good                                                               |
|                                                                                                                                                                                                                                                          | Resistance to acids and bases                                                                                                                                                                                                  | Good to very good                                                  |
| Remarks                                                                                                                                                                                                                                                  | Resistance to solvents:                                                                                                                                                                                                        |                                                                    |
|                                                                                                                                                                                                                                                          | • Aliphatics and alcohols                                                                                                                                                                                                      | Good to very good                                                  |
|                                                                                                                                                                                                                                                          | • Ketones                                                                                                                                                                                                                      | Low                                                                |
|                                                                                                                                                                                                                                                          | • Aromatics                                                                                                                                                                                                                    | Good to very good                                                  |
|                                                                                                                                                                                                                                                          | Resistance to mineral oils                                                                                                                                                                                                     | Very good                                                          |
| These performance characteristics refer specifically to metallic coating Z100 (guaranteed minimum).<br>If any product (film, oil, foam, glue, paint etc) is to be applied after coil delivery, compatibility with the coating needs to be checked first. |                                                                                                                                                                                                                                |                                                                    |
| (1) Nominal value, tolerance according to EN 10169                                                                                                                                                                                                       |                                                                                                                                                                                                                                |                                                                    |

# Estetic<sup>®</sup> Casa Protect

## Properties

- Superior protection against corrosion
- Superior resistance to detergent
- Very good formability
- Thermosetting paint
- Surface treatment and paint: free of hexavalent chromium and heavy metals

## Applications

**Domestic appliance parts for superior protection against corrosion and superior resistance to detergent**

## Description

|                                    |                                                                    |
|------------------------------------|--------------------------------------------------------------------|
| Thickness <sup>(1)</sup>           | 25 microns                                                         |
| Composition                        | Front: 25 microns<br>Back: 7 or 10 microns high-gloss backing coat |
| Gloss (Gardner 60°) <sup>(1)</sup> | Usual: 30-90 GU                                                    |
| Colours                            | Specific colours on request                                        |
| Appearance                         | Smooth, orange peel                                                |
| Temporary protection (optional)    | Self-adhesive film or heat-sealed film                             |

## Performance

|                                                                                                      |                                            |
|------------------------------------------------------------------------------------------------------|--------------------------------------------|
| Adhesion of the coating (T-bend)                                                                     | ≤ 0.5 T                                    |
| Resistance to cracking on bending (T-bend)                                                           | ≤ 1 T                                      |
| Impact resistance                                                                                    | 18 J                                       |
| Surface "pencil" hardness                                                                            | HB to H                                    |
| Adherence with no cracks (Erichsen test)                                                             | 6 mm                                       |
| Adhesion on cross-cut                                                                                | 100%                                       |
| Salt spray test                                                                                      | 360 hours                                  |
| Condensation resistance:                                                                             |                                            |
| • QCT test                                                                                           | 1500 hours                                 |
| • Corrosion protection category                                                                      | CPI4                                       |
| UV resistance                                                                                        | 500 hours                                  |
| Compliance with European directives 2002/95/EC and 2011/65/EC on electrical and electronic equipment | ROHS-compliant                             |
| Resistance to detergent                                                                              | Very good with liquid and powder detergent |
| Stain resistance                                                                                     | Good                                       |
| Resistance to acids and bases                                                                        | Good to very good                          |
| Resistance to solvents:                                                                              |                                            |
| • Aliphatics and alcohols                                                                            | Good to very good                          |
| • Ketones                                                                                            | Low                                        |
| • Aromatics                                                                                          | Good to very good                          |
| Resistance to mineral oils                                                                           | Very good                                  |

## Remarks

These performance characteristics refer specifically to metallic coating Z100 (guaranteed minimum).  
 ZE or ZV metallic coating also available.  
 If any product (film, oil, foam, glue, paint etc) is to be applied after coil delivery, compatibility with the coating needs to be checked first.

*(1) Nominal value, tolerance according to EN 10169*

# Estetic® Casa Visual Mat

|              |                                                                                                                                                                                                                                                                                                                                                                   |                                                        |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| Properties   | <ul style="list-style-type: none"> <li>• Everlasting surface finish even in the toughest environment</li> <li>• Superior protection against corrosion</li> <li>• Superior resistance to detergent</li> <li>• Very good formability</li> <li>• Thermosetting paint</li> <li>• Surface treatment and paint: free of hexavalent chromium and heavy metals</li> </ul> |                                                        |
| Applications | <b>Domestic appliances: front and side panels, doors, lids, covers and control panels of domestic appliances, e.g. refrigerators, chest freezers, microwave ovens, water heaters and small domestic appliances</b>                                                                                                                                                |                                                        |
| Description  | Thickness <sup>(1)</sup>                                                                                                                                                                                                                                                                                                                                          | 25 microns                                             |
|              | Composition                                                                                                                                                                                                                                                                                                                                                       | Front: 25 microns<br>Back: 5 or 7 microns backing coat |
|              | Gloss (Gardner 60°) <sup>(1)</sup>                                                                                                                                                                                                                                                                                                                                | 5-30 GU                                                |
|              | Colours                                                                                                                                                                                                                                                                                                                                                           | Specific colours on request                            |
|              | Appearance                                                                                                                                                                                                                                                                                                                                                        | Smooth                                                 |
|              | Temporary protection (optional)                                                                                                                                                                                                                                                                                                                                   | Self-adhesive film or heat-sealed film                 |
|              | Temporary protection (optional)                                                                                                                                                                                                                                                                                                                                   | Self-adhesive film or heat-sealed film                 |
| Performance  | Adhesion of the coating (T-bend)                                                                                                                                                                                                                                                                                                                                  | 0 T                                                    |
|              | Resistance to cracking on bending (T-bend)                                                                                                                                                                                                                                                                                                                        | 1-1.5 T, depending on the gloss                        |
|              | Impact resistance                                                                                                                                                                                                                                                                                                                                                 | 18 J                                                   |
|              | Surface "pencil" hardness                                                                                                                                                                                                                                                                                                                                         | F to 2H                                                |
|              | Adherence with no cracks (Erichsen test)                                                                                                                                                                                                                                                                                                                          | 6 mm                                                   |
|              | Adhesion on cross-cut                                                                                                                                                                                                                                                                                                                                             | 100%                                                   |
|              | Salt spray test                                                                                                                                                                                                                                                                                                                                                   | 360 hours                                              |
|              | Condensation resistance:                                                                                                                                                                                                                                                                                                                                          |                                                        |
|              | • QCT test                                                                                                                                                                                                                                                                                                                                                        | 1500 hours                                             |
|              | • Corrosion protection category                                                                                                                                                                                                                                                                                                                                   | CPI4                                                   |
|              | UV resistance                                                                                                                                                                                                                                                                                                                                                     | 500 hours                                              |
|              | Compliance with European directives 2002/95/EC and 2011/65/EC on electrical and electronic equipment                                                                                                                                                                                                                                                              | ROHS-compliant                                         |
|              | Stain resistance                                                                                                                                                                                                                                                                                                                                                  | Excellent                                              |
|              | Resistance to acids and bases                                                                                                                                                                                                                                                                                                                                     | Good to very good                                      |
|              | Resistance to solvents:                                                                                                                                                                                                                                                                                                                                           |                                                        |
|              | • Aliphatics and alcohols                                                                                                                                                                                                                                                                                                                                         | Good to very good                                      |
|              | • Ketones                                                                                                                                                                                                                                                                                                                                                         | Low                                                    |
|              | • Aromatics                                                                                                                                                                                                                                                                                                                                                       | Good to very good                                      |
|              | Resistance to mineral oils                                                                                                                                                                                                                                                                                                                                        | Very good                                              |
| Remarks      | These performance characteristics refer specifically to metallic coating Z100 (guaranteed minimum).<br>If any product (film, oil, foam, glue, paint etc) is to be applied after coil delivery, compatibility with the coating needs to be checked first.                                                                                                          |                                                        |
|              | (1) Nominal value, tolerance according to EN 10169                                                                                                                                                                                                                                                                                                                |                                                        |

# Backing coat 5 microns

## Properties

- Compatible with foam
- No guarantee on colour consistency
- Thermosetting paint
- Surface treatment and paint: free of hexavalent chromium and heavy metals

## Description

|                          |                                                                                 |
|--------------------------|---------------------------------------------------------------------------------|
| Thickness <sup>(1)</sup> | 5 microns                                                                       |
| Colours                  | B 7032 & B 9002. No guarantee on colour consistency<br>Other colours on request |

## Performance

|                                  |                                                                |
|----------------------------------|----------------------------------------------------------------|
| Adhesion of the coating (T-bend) | ≤ 3 T                                                          |
| Foam adhesion                    | Needs to be checked by the end user with his specific products |

## Remarks

These performance characteristics refer specifically to metallic coating Z225 and Optigal® ZM100 (guaranteed minimum).

*(1) Nominal value, tolerance according to EN 10169*

# Backing coat 7 microns

## Properties

- Compatible with foam
- Corrosion protection
- Thermosetting paint
- Surface treatment and paint: free of hexavalent chromium and heavy metals

|             |                                                                                                                        |                                                                                 |
|-------------|------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| Description | Thickness <sup>(1)</sup>                                                                                               | 7 microns                                                                       |
|             | Colours                                                                                                                | B 7032 & B 9002. No guarantee on colour consistency<br>Other colours on request |
| Performance | Adhesion of the coating (T-bend)                                                                                       | ≤ 3 T                                                                           |
|             | Clemen scratch resistance                                                                                              | 1 kg                                                                            |
|             | Corrosion resistance category:                                                                                         |                                                                                 |
|             | • Salt spray test                                                                                                      | ≥ 100 hours                                                                     |
|             | Foam adhesion                                                                                                          | Needs to be checked by the end user with his specific products                  |
| Remarks     | These performance characteristics refer specifically to metallic coating Z225 and Optigal® ZM100 (guaranteed minimum). |                                                                                 |
|             | <i>(1) Nominal value, tolerance according to EN 10169</i>                                                              |                                                                                 |

# Backing coat 10 microns

## Properties

- Compatible with foam
- Corrosion protection
- Colours B 7032 & B 9002 defined at 10 microns
- Thermosetting paint
- Surface treatment and paint: free of hexavalent chromium and heavy metals

## Description

|                                    |                                                              |
|------------------------------------|--------------------------------------------------------------|
| Thickness <sup>(1)</sup>           | 10 microns                                                   |
| Gloss (Gardner 60°) <sup>(1)</sup> | 30 GU                                                        |
| Colours                            | B 7032 & B 9002 (colour palette)<br>Other colours on request |

## Performance

|                                  |                                                                |
|----------------------------------|----------------------------------------------------------------|
| Adhesion of the coating (T-bend) | ≤ 3 T                                                          |
| Clemen scratch resistance        | 1.5 kg                                                         |
| Salt spray test                  | 150 hours                                                      |
| Condensation resistance:         |                                                                |
| • QCT test                       | 500 hours                                                      |
| • Corrosion protection category  | CPI2                                                           |
| Foam adhesion                    | Needs to be checked by the end user with his specific products |

## Remarks

These performance characteristics refer specifically to metallic coating Z225 and Optigal® ZM100 (guaranteed minimum).

*(1) Nominal value, tolerance according to EN 10169*

# Backing coat 12 microns

## Properties

- Robust backing coat
- Very good corrosion protection
- Colour consistency
- Compatible with foam
- Thermosetting paint
- Surface treatment and paint: free of hexavalent chromium and heavy metals

## Applications

### Reinforced backing coat

## Description

|                                    |                                             |
|------------------------------------|---------------------------------------------|
| Thickness <sup>(1)</sup>           | 12 microns                                  |
| Gloss (Gardner 60°) <sup>(1)</sup> | 30 GU                                       |
| Colours                            | B 7032 & B 9002<br>Other colours on request |

## Performance

|                                           |                                                                |
|-------------------------------------------|----------------------------------------------------------------|
| Adhesion of the coating (T-bend)          | ≤ 2 T                                                          |
| Flexibility of the coating                | ≤ 3 T                                                          |
| Clemen scratch resistance                 | 1.5 kg                                                         |
| Salt spray test                           | 240 hours                                                      |
| Condensation resistance:                  |                                                                |
| • QCT test                                | 1000 hours                                                     |
| • Corrosion protection category           | CPI3                                                           |
| Storage test (6 weeks wet pack test 50°C) | < 2S2                                                          |
| Foam adhesion                             | Needs to be checked by the end user with his specific products |

## Remarks

These performance characteristics refer specifically to metallic coating Z225 and Optigal® ZM100 (guaranteed minimum).

*(1) Nominal value, tolerance according to EN 10169*



# Backing coat 25 microns

## Properties

- Robust backing coat
- Very good corrosion protection
- Colour consistency
- Compatible with foam
- Thermosetting paint
- Surface treatment and paint: free of hexavalent chromium and heavy metals

## Applications

**Reinforced backing coat, fitting for Granite® HDXtreme, Granite® HDX and Granite® Storm**

## Description

|                                    |                                             |
|------------------------------------|---------------------------------------------|
| Thickness <sup>(1)</sup>           | 25 microns                                  |
| Gloss (Gardner 60°) <sup>(1)</sup> | 30 GU                                       |
| Colours                            | B 7032 & B 9002<br>Other colours on request |

## Performance

|                                           |                                                                |
|-------------------------------------------|----------------------------------------------------------------|
| Adhesion of the coating (T-bend)          | ≤ 2 T                                                          |
| Flexibility of the coating                | ≤ 3 T                                                          |
| Clemen scratch resistance                 | 1.5 kg                                                         |
| Salt spray test                           | 500 hours                                                      |
| Condensation resistance:                  |                                                                |
| • QCT test                                | 1500 hours                                                     |
| • Corrosion protection category           | CPI4                                                           |
| Storage test (6 weeks wet pack test 50°C) | < 2S2                                                          |
| Foam adhesion                             | Needs to be checked by the end user with his specific products |

## Remarks

These performance characteristics refer specifically to metallic coating Z275 (guaranteed minimum).

*(1) Nominal value, tolerance according to EN 10169*