



Arch Steel buildings



INNOVALAND

Why arched.

- High quality materials from the best mills in Europe with a guarantee of up to 30 years.
- Easy transport and delivery of materials to the construction site.
- Quick and easy installation with a small team.
- Possibility of large openings up to 45 meters without any use of columns.
- No maintenance costs.
- Possibility of disassembly and reassembly at another location.
- High resistance to wind, snow and earthquakes.
- 85% heat reflection
- Fireproof with Euro class A1 and A1FL certificate.
- Savings of up to 50% on construction costs compared to conventional methods.
- Possibility of building energy class A premises.



industry
aviation
army
storage
sport
residence
installations
agriculture
cattle



metal arch buildings



the classic Quonset style. economical, with a range of up to 46 meters.



the last hangar. for high heights and maximum use of interior space.



unique design with a curved roof. the solution for multiple applications.



designed for tough stuff. designed for tough conditions and special missions.

What is this?

The arches that make up the buildings are made from special metal alloys with a guarantee of up to 30 years against rust.

Buildings can be constructed from alloys such as Magnelis®, Galvalume Plus®, Granite Std® and Aluzinc®. Metal alloys combine magnesium, aluminum up to 55% and zinc.

They have unique characteristics and great resistance. Arched metal buildings are used in different applications.

Their advantages are great compared to other conventional metal structures.

The ease and speed of assembly, their durability and the large opening without columns are just a few of them.

the models

6 different building models make up the Archers range.

Each model meets different needs and objectives depending on its characteristics. Below are the 4 most basic models. The most widespread and effective for large installations are Q and S.



hangars/aviation

Designed precisely for this purpose, they are naturally the best solution when it comes to aircraft hangars.

The metal arch buildings were originally created for aviation and the military. Their strengths are speed of installation, immediate protection in harsh environments and of course durability.

With a wide range of models and sizes, Arch Steel technology can cover everything from small Cessnas, helicopters, private jets, to large commercial aircraft such as the Boeing 747.

The sheds are available with or without front and rear walls, with electric sliding doors, skylights and many other options for every situation.

Special metal alloys available such as Galvalume Plus®, Magnelis® and Aluzinc® provide exceptional weather resistance, 85% heat reflection and a 30-year factory rust warranty.





Innovaland, in addition to the construction of the building, also takes care of the training of the client's personnel, especially in large buildings, for self-assembly or supervision throughout the assembly process.





Storage and industry



Heavy industry, and not only, needs extensive coverage and the possibility of having a single space.

The same goes for large storage units and that is why these are industries that use metal arches.

Wear and tear and systematic maintenance have no place in an industrialist's routine.

The need for safe and practical coverage is a fact. Optimal use of interior space is a considerable advantage that few establishments can offer.



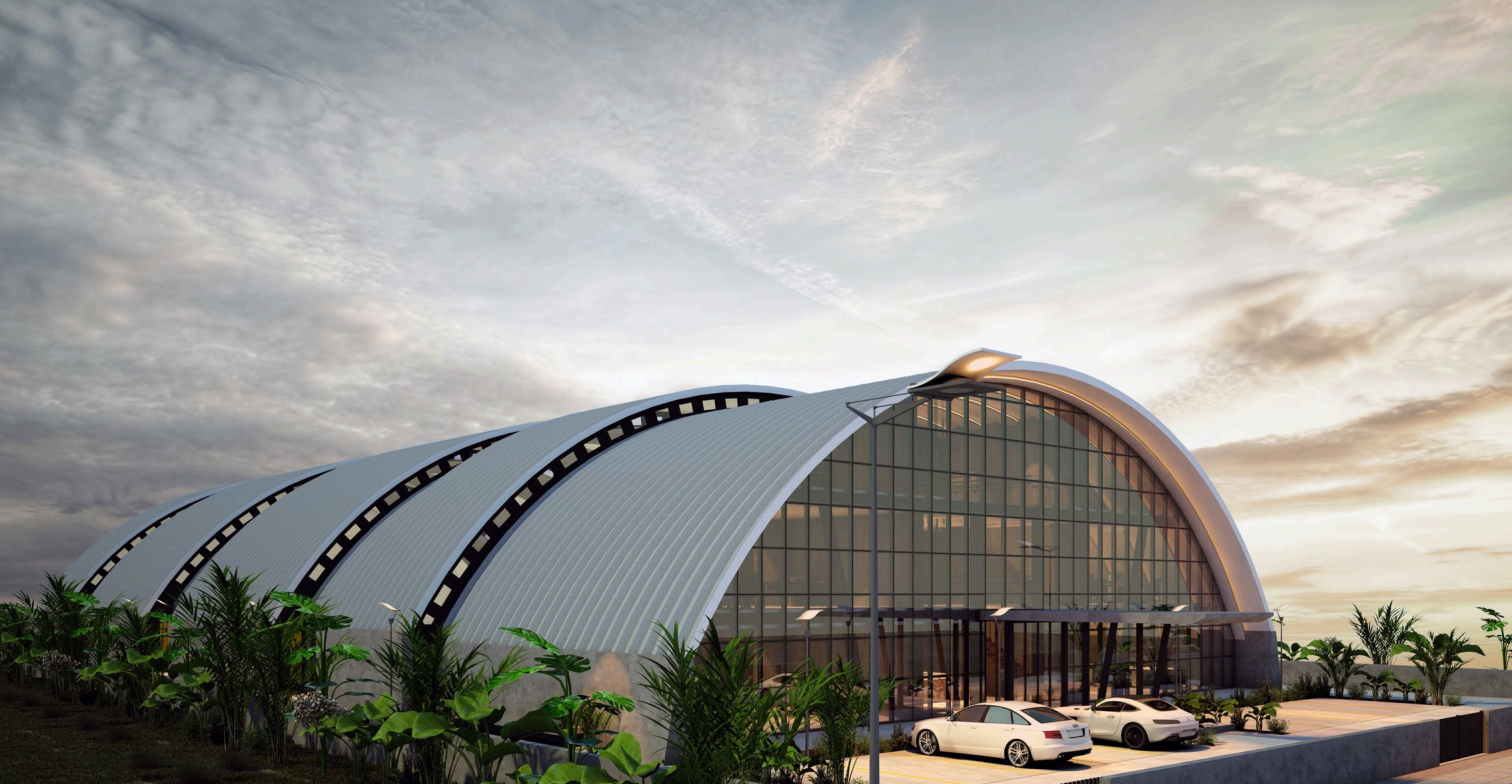
From the range of curved metal buildings, the Q models can offer significant space coverage in a very economical context. The Q model has a span of up to 46 meters with the possibility of unlimited length. The S on the other hand has the advantage of a great height that manufacturers exploit in their installations.



These buildings are implemented and particularly widespread in America and Europe because of their competitive advantages over conventional buildings.

Their long life (and 30-year warranty on the material), their minimal maintenance and the possibility of expanding and dismantling them at any time are some of the characteristics found in the buildings.



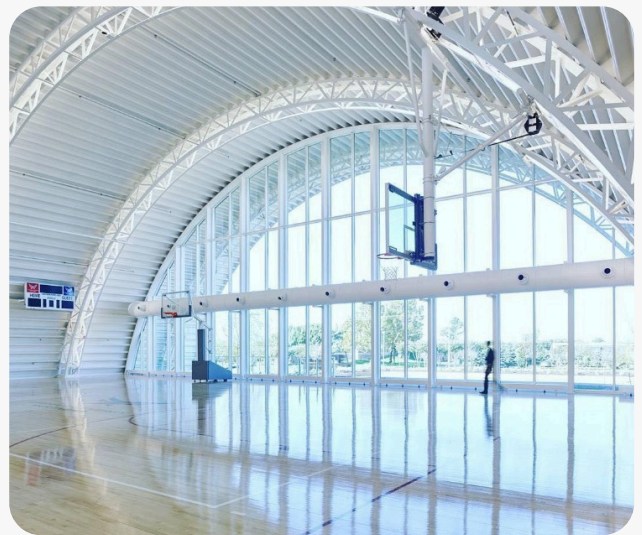


installations

Arched buildings, due to their impressive futuristic style, are often chosen to house large facilities such as indoor stadiums, indoor swimming pools, exhibition halls, offices, large garages and anything else.

In combination with the use of other building materials, but also with a dose of imagination of the designers, the results are fantastic and the buildings become points of reference. There are various examples of installations of various types.





The ultimate example of a sports center, the AELP Fitness Center in Oklahoma, USA. Facilities that require open space and maximum use of it find the ideal solution in arches.

Quick installation and immediate coverage of a large area in an economical context.





agriculture and grain storage

Agriculture and grain storage are industries that require demanding and practical facilities with extensive coverage.

Wear and tear and routine maintenance have no place in a producer's routine. The need for safe and practical coverage is a fact.

Optimal use of interior space is a considerable advantage that few establishments can offer.

From the range of curved metal buildings, the Q models can offer significant space coverage in a very economical context. The Q model has a wingspan of up to 46 meters and the possibility of unlimited length.





These buildings are used and are particularly widespread in America and Europe for agricultural installations due to their competitive advantages over conventional metal structures.

Their long life (and 30-year warranty on the material), their minimal maintenance and the possibility of expanding and dismantling them at any time are some of the characteristics found in the buildings.





army



The military is one of the most demanding industries and the need for better technology has made metal arches one of the safest options.

The strength and dynamics of these buildings make them one of the best solutions for staff housing, temporary operating posts, ammunition storage (with the possibility of underground cover), garages and storage of weapons systems.

The fact that they can be assembled by just a few people, but also disassembled, is a great advantage that suits the needs of the army.

The construction alloys are designed to withstand harsh conditions, such as extreme weather events (hurricanes, storms, snow and high temperatures), and this is proven by its thirty-year anti-rust warranty.

Its ability to be dismantled and stored for later use is a considerable advantage for military needs. A typical Q-type building of 100 to 200 square meters is simply stored on a standard double pallet.



A technology originally designed to serve aviation and the military, which is why it remains one of the most popular installation solutions in the industry.

The US Army and British forces were among the first to use archers for their purposes, 60 years ago.

Even today, they are used in companies and in their permanent bases.

It is impressive that in many bases archers of an older generation, 30 years old, exist and are used.





residence



Steel arch buildings have always been an inspiration to designers and architects because of their organic factory design.

The dome of the Q model has influenced several designers who have created homes with unique designs. The most famous, the residence located just outside New York, in East Hampton, designed by Maziar Behrooz. Modern design that combines various applications and materials.

It is an impressive structure that demonstrates what can be created with arches and a little imagination.

At the same time, arched windows are a widespread solution in America and Europe for country houses or more affordable homes due to the various advantages that characterize these structures.



Innovaland offers a complete range of houses, the Moonline series.

The residences represent a new and at the same time unique solution in terms of housing, as they combine impressive design, comfortable and practical spaces and materials selected according to quality.

All this in a very attractive and economical setting.

It is important to mention that the residences also achieve excellent results in terms of energy efficiency.





Frequently Asked Questions

► Why curved metal buildings?

Arched metal buildings are the perfect combination of elegance, durability and functionality!

Perfectly prefabricated metal curved sections are assembled sequentially, forming a self-supporting and durable curved structure. By using the curve and more particularly the arched design, we obtain the possibility of realizing large openings.

Metal columns, beams and trusses cease to exist as the structure is anchored directly to both extreme sides of the foundation. Special metal alloys available such as Galvalume Plus®, Magnelis® and Aluzinc® provide exceptional weather resistance, 85% heat reflection and a 30-year factory rust warranty.

- High quality materials from the best foundries in Europe with a guarantee of up to 30 years.
- Easy transport and delivery of materials to the construction site.
- Quick and easy installation with a small team.
- Possibility of large openings up to 45 meters without any use of columns.
- No maintenance costs.
- Possibility of disassembly and reassembly at another location.
- High resistance to wind, snow and earthquakes.
- 85% heat reflection
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- Possibility of building energy class A premises.

➤ How much does it cost per square meter?

The most common question!

Arched metal building prices cannot be set based on square footage because many factors come into play. It is important that you inform us of the following in advance:

- What exactly do you want to achieve and what will it be used for?
- Dimensions (height, length, width). Windows, doors, etc.
- Where will it be built?

➤ And the heat?

The answer comes from the metal alloys Magnelis®, Galvalume®, Aluzinc®

Patented American steel with a high aluminum content, they really help us keep the interior of our buildings cool. In addition, the deep grooves of the prefabricated sections (panels), which give the sensation of three-dimensional faces, leave less exposed surface and, combined with the excellent performance of the material, ensure up to 85% heat reflection.

Combined with adequate ventilation, you now have a pleasant environment without the need for any thermal insulation system.

➤ Can I insulate my metal building?

We have achieved excellent energy efficiency, which would place us in the A++ energy class category if it existed!

We offer you many methods and materials that help us to insulate our buildings with great ease. In addition, there are possibilities of cladding with wood, plasterboard, ready-made systems, etc. with hundreds of design and coloring possibilities.

➤ Do I need a building permit for my building?

It's quick and easy to build your building, but it's still new construction.

The procedure for obtaining a license is exactly the same as the one you follow for constructing any new building.

The big advantage of our technology?

The buildings are demountable, dismantlable and therefore transportable, which in some cases is enough to greatly facilitate the licensing process.

Always in compliance with the local regulations of the place where your building will be erected. Of course, our arched technology meets all specifications and criteria to be licensed for any use!

➤ How do I make internal divisions?

It depends on what type of separation you want.

We recommend and use certified drywall framing systems made of prefabricated galvanized steel frames. Drywall systems such as plasterboard, cement board and all kinds of other different panels are available to you.

You choose what you want and what suits your needs and we will certainly recommend the most efficient and economical material for each case. Our goal is to offer you the widest possible choice of materials and construction methods that will fit your needs and financial capabilities.

➤ Doesn't the foundation significantly increase the cost of construction?

In any construction, "concrete", as it is usually called, or in general the foundation, increases the cost of construction. By choosing an arched metal structure, you automatically reduce the cost of your foundation, as it requires significantly less concrete than any other structure of similar use. We plan every detail and take into account all the factors you need. We can provide solutions and create extremely interesting construction facilities at a lower cost and in a short time. Plans, construction and foundation study are always offered to our customers.



➤ Can I customize a different facade to give a different character to my building?

You can easily use any material to create a front wall or a specially designed structure that meets your own requirements.

Do you want large openings to add single-block or multi-block roof doors, roller shutters or garage doors? Have you ever imagined a glass or wooden facade? Whatever your needs and imagination, you will see it on your arched metal building!

➤ Can I increase the length of the building in the future?

The answer is YES!

Arched metal buildings are made up of prefabricated sections (panels) that are fastened together one after the other with screws and nuts, making the process of expanding your existing arched building very easy.

➤ Can I have a loft, mezzanine or additional floors?

Of course you can!

The design of the building always follows your own wishes. In the case of an internal mezzanine and an additional floor, using other materials and creating a more complex structure (mainly metal parts, beams, etc.), we manage to have at your disposal an attic and everything you might need.



➤ Do I need to carry out frequent building maintenance work?

Non!

One of the main advantages of curved metal buildings is their low future maintenance cost, almost zero. Metal alloys do not require any maintenance. You will not need to carry out repainting or corrective work on your building. If you wish, you can simply wash it!

➤ What electromechanical services will I need?

Heating and air conditioning systems, electrical wiring, plumbing and all sorts of other services that all modern structures support can easily be implemented into your vaulted building. The freedom of space offered by arched metal buildings allows the adaptation of electrical routes either underground or “aerial” with special fixing systems applied inside the arches. The installation of water, heating and air conditioning systems has never been easier than in arched metal buildings. Designs and implementation studies are always available from our team of engineers.

➤ Can I add other components to the building?

Skylights, ventilation systems, doors, windows, etc. They are available and easily adapt to our buildings. Curved metal buildings are a modern construction technology that is constantly being developed by its users themselves.

Adding skylights is another way to allow the sun to shine inside your building. Fans can be installed to ensure proper air circulation throughout the building and also eliminate moisture buildup. Side openings or other structural additions can elevate your structure.

You choose and we offer you in each case solutions specially designed to adapt perfectly to your situation.

➤ I have the land, I am interested in building an arched building. How do I go about it?

Do you want to build a warehouse, a garage, a facility on your farm, an industrial shed or the house of your dreams?

You bring us the title deed and the topographic plan of your plot. You tell us exactly what you want to do and what your needs are. We review all documents, land use planning, regulations and criteria on the basis of which we can work.

We start the design of your construction by choosing the model and dimensions most suitable for you. We present you the ideal design with photorealistic images of the final project. Detailed cost estimate is being prepared to assess your project budget. Pending issuance of permits by the relevant state authorities.

Your arched metal building is now ready to be built!



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