WORLD TECHNOLOGY
GROUP

ARCHED HALLS

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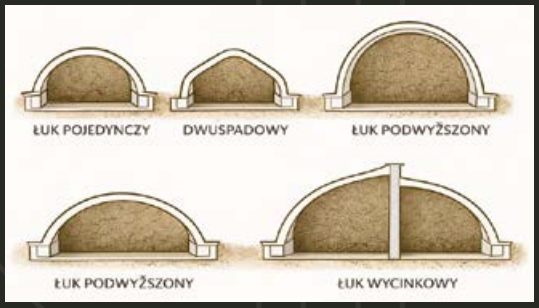
Our team offers fast and low cost system of constructing halls using self-supporting thin-walled steel structures. The halls are constructed using sheet metal with thickness of 0,8mm to 1,5mm, coated with leyers of zinc or aluzinc, as well as shhet metal in various colours designed to meet the needs of customer.

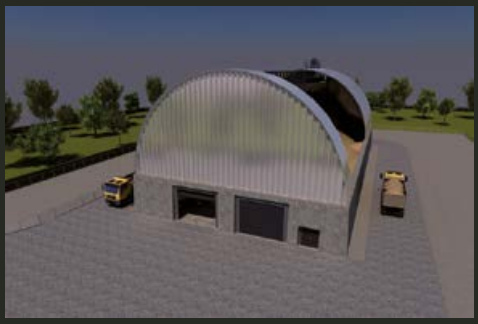
TYPICAL CROSS-SECTION OF ARCHED HALLS WITH SPAN OF 8-31m

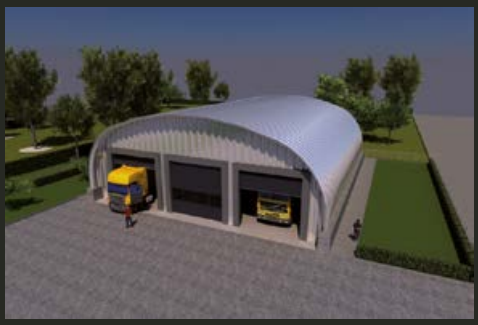


Depending on wind and snow zones and technological loads, our system allows for widths of 8 to 31 metres to be built without any additional load-bearing structure under the halls..

Our halls can be based on:

- strip footings,
- foundation slabs,
- BIG BLOCK concrete blocks





Detailed foundation solutions will be tailored individualy depending on the purpose of the building as well as soil and water conditions

TECHNOLOGY

AGILITY/ SOLIDITY/ LIMITLES POTENTIAL

Our unique technology enables rapid elevation of self-supporting steel structures directly on the construction site. Discover the proces that is revoltionizing the approach to storage and utility space.

INSULATION SYSTEM FOR ARCHED HALLS

Depending on your needs, we use polystyrene, mineral wool or PUR foam. External insulation can be finished with a roofing membranę or low-profile trapezoidal sheet metal. From the inside, the insulation is mounted on a special frame and the finishing layer of perforated sheet metal ensures free evaporation of moisture.

ROOF SKYLIGHTS IN ARCHED HALLS

In arched halls, we use system solutions that enable the installation of roof skylights spaced every 5 panels along the ridge.

Modern skylights provide natural lighting for interiors, improve comfort of use and do not affect the properties of the structure.

The maximum dimensions of a single skylight are 700 × 2800 mm, which allows the amount of light to be effectively adjusted to the nature of the building.

THREE CONSTRUCTION STEPS:

1. **Precision Moulding**
2. **Geometry Engineering**
3. **Assembly and Safety**

ARCHED HALLS AS SPORTS FACILITITIES

Our constructions offers wide range of applications.
As part of the goverment programme, we constructed arched roofs using UBM self-supporting arched hall technology, including insulation, for sports halls, among other facilities.

The investments were carried out in Białystok, Podgórze, Pniewie and Czyczkowy.
The structures, with a span of 18–25 m, were equipped with self-supporting steel profiles with an internal and external insulation system.

WAREHOUSE STRUCTURES

Durable steel shelters using self-supporting arched structures. Quick assembly, high resistance to weather conditions and adaptability to the investor's needs.

WHY US?

Compared to buildings constructed using traditional technologies, our system offers the following advantages: economic, geometric, structural and strength-related.

- **ECONOMY:**

the prefabrication process takes place at the destination, which reduces the number of transports and speeds up completion time;

- **GEOMETRY:**

the shape of the building can be adapted to specific needs – buildings with arched, double-pitched or multi-curved geometry;

- **CONSTRUCTION:**

no massive supporting structure or additional protective elements – our system profiles perform both structural and protective functions;

- **DURABILITY:**

high resistance to environmental factors through the use of sheets with high anti-corrosion properties and the elimination of mechanical fasteners (e.g. bolts, screws).

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WORLD TECHNOLOGY GROUP Sp. z o.o.
Chróstnik 104, 59-311 Lubin, NIP: 6921906224
www.wtgsa.eu

info@wtgsa.eu

+48 513 366 680
+48 693 608 108