



# Standard Trapezoidal sheets

## Product overview

Trapezoidal sheets are components made of steel or aluminum that are made from flat sheet metal using a special forming process. This gives them a high level of stability and strength. Trapezoidal sheets are often used as roof or wall cladding and require only a small substructure compared to other building materials. They are easy to process, inexpensive and long-lasting.

Trapezoidal sheets are:

- cheap
- recyclable
- sustainable

and versatile. In addition to the classic use as roof covering, trapezoidal sheets are also used in other areas, as wall cladding, facade cladding or as cladding for carports and garage roofs.

The trapezoidal sheets are produced by the company Hoffmann Trapezblechproduktion GmbH in Germany.

Contact and sales for Romania are carried out exclusively through DO-Base GmbH.

The trapezoidal sheets are usually manufactured individually according to customer orders.

Delivery time approx. 4 weeks after ordering.

**Quality:**

Trapezoidal sheet metal production according to DIN EN 1090-1 in conjunction with parts 4 and 5 load-bearing capacity certificates according to Eurocode.

The trapezoidal profiles produced are suitable for almost every construction project and are certified according to DIN EN 1090. Through the factory production control (Certificate of Conformity of Factory Production Control 0432-CPR-00175-01, MPA NRW), the manufacturer meets the highest requirements of the industry.

**We are your contact for trapezoidal sheets:**

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## Properties and areas of application

Our components are particularly suitable for roofing warehouses, industrial halls, agricultural halls such as pig stables, free-stall stables (cattle stables) and chicken houses. Our trapezoidal profiles are also ideal for private areas such as garages made of trapezoidal sheet metal, carports, roofs, garden sheds, pergolas and terraces.

Our trapezoidal sheets - also called trapezoidal profiles or metal profiles - are made to measure in our production up to 24 m, depending on the profile. We offer you a large selection of colors and, upon request, special colors and special coatings.

In cross section, the trapezoidal sheets have a trapezoidal profile, which ensures high load-bearing capacity and stability, even if it is a very light or thin trapezoidal sheet made of steel or aluminum.

For all trapezoidal profiles, you can find the appropriate load tables (load-bearing capacity certificates) in our download area. The spans vary depending on the steel thickness and trapezoidal profile selection.

**The following material thicknesses are available from us:**

**Steel** 0,45 mm/0,50 mm/0,63 mm/0,75 mm/0,88 mm/1,00 mm/1,25 mm

**Aluminium** 0,70 mm/0,80 mm/1,00 mm

These material thicknesses are coil-coated raw material for producing our trapezoidal profiles. The 25µ polyester coating is seen as a recognized standard (Germany). Other coating systems and RAL colors are optionally available for special building projects. These coatings protect the trapezoidal sheet metal against premature aging caused by weather such as rain, snow and UV exposure from the sun's rays.

The normally smooth surfaces are less susceptible to the growth of algae, moss and other weather residues.

### Trapezoidal aluminum sheets

If you only want the roof to be light, choose aluminum sheet. For comparison, the trapezoidal aluminum sheet has a weight of approx. 2.16 kg per square meter and is therefore even easier to lay. Rusting of the trapezoidal sheets can be ruled out. Any loads on aluminum sheets are eliminated as they are not statically dimensioned.



## Assembly and accessories

There are different options for screwing trapezoidal sheet metal onto the roof or facade. For example, screwing on the raised bead with spherical caps is common and proven (roof screwing).

The caps for the screws are available to match the trapezoidal sheets and colors. The pressure of the screw is distributed evenly across the sheet metal by the cap. In addition, water penetration is prevented by screw mounting on the profile mountain. In addition, a screw is required for fastening the sheet metal to a cap. When you buy trapezoidal sheets from us, you will find the appropriate installation accessories as well as the required installation instructions.

### High profiles / supporting shells made of steel

High steel profiles are being used more and more frequently in the commercial, agricultural and private sectors. Thanks to the deeply rolled trapezoidal shape and selected material thicknesses such as: B. 0.75mm, 0.88mm, 1.00mm and 1.25mm, our high profiles such as the trapezoidal sheet 100-275, 135-310, 150-280, 160-250 or the support shell 200-420 achieve very large spans.

Steel supporting shells can be manufactured and processed as a cold roof version or as a warm roof version. High profiles impress with an optimal price-performance ratio, as the costs of the substructure for steel or wood are significantly reduced.

### Lay high profiles

As already mentioned, high profiles are used as a supporting shell for, for example, a double-shell, thermally insulated roof structure (positive layer) or as a single-shell, non-insulated roof. This results in significantly shorter construction times and cost advantages for commercial halls, industrial buildings or agricultural buildings.

You can pre-select the substructure and the required profiles using the so-called load tables. These static tables for trapezoidal sheets show the values that a trapezoidal sheet can be laid freely without a substructure. The different material thicknesses, deflection restrictions and field systems must be taken into account.

### Safe purchase of steel support shells

We provide you with trapezoidal sheets with large spans up to a length of 24 m. Transporting our profiles over long lengths is no problem. We also offer high profiles with an anti-drip fleece as an option.

Material thicknesses of our steel profiles : 0,75 mm/0,88 mm/1,00 mm/1,25 mm/1,50 mm

Coatings:

- PE 15 DU-RSL (for double-skin, thermally insulated roof structure)
- PE 25 25my-RSL (for single-shell cold roof construction)
- PE 25 25my-RSL with anti-condensation fleece (for single-skin cold roof construction)