



Sandwich panels

Thermocouples with PIR foams or mineral wool core

Sandwich panels – cladding and insulation perfectly combined

Sandwich panels combine interior cladding, support structure and exterior cladding with an insulating layer into one component. They usually consist of two profiled steel plates, between which there is an insulation layer (PIR or mineral wool). In warm temperatures, they help keep the inside of the building cool - in cold weather, the thermal roof and wall panels excellently insulate from outside weather and store the heat. These properties allow you to reduce costs all year round and thus make a significant contribution to the ecological and economical use of energy.

In addition to their excellent thermal insulation and long-term tightness, our thermocouples also impress with excellent corrosion protection and high load-bearing capacity. In addition, PIR foams are flame-retardant (building material class B1 according to DIN 4102 / B-s3, d0) and therefore meet demanding fire protection regulations. Unless otherwise requested, we only offer sandwich panels with ABZ (general building authority approval). In addition to the rigid foam panels with a PIR core, we offer you a large selection of thermal roof and wall elements with a mineral wool core. Sandwich panels with mineral wool or rock wool achieve a sound insulation level of around 33 dB. Standard thermal roof and wall elements made from PIR foams achieve sound insulation values of around 26 dB, regardless of the thickness chosen. You receive both a load-bearing and insulating element that does not require any additional components in order to be able to perform its function as a wall or roof covering.

**The sandwich panels are produced by the Falk-Salzgitter company in Germany.
Contact and sales for Romania are handled by DO-Base GmbH.**

The sandwich panels are usually manufactured individually according to customer orders. Delivery time approx. 4 weeks after ordering.

We are your contact for sandwich panels:

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Properties and areas of application

Sandwich panels roof

With our sandwich panels for the roof, the roof substructure or the cross battens can be adjusted depending on the element. Due to the higher span of the panels, the substructure can be significantly reduced. Depending on the model, our insulated trapezoidal sheets are used on flat roofs and pitched roofs of different sizes. The average 1.000 mm wide elements are available in different lengths, from 1.000 mm to 10.000 mm. Our sandwich panels show their best side in every respect, whether through their load-bearing capacity, the span, the U-value of the insulation and the good sound insulation.

Erecting the walls of a hall or building so that the interior can be heated or air-conditioned usually takes a lot of time. With our sandwich panels for the wall, this period can be significantly reduced. Time is money and with our sandwich panels you as a builder, planner or architect have the advantage of saving time and money in one. Depending on the model, our sandwich panels for the wall have a better thermal conductivity than conventionally insulated brick walls. Noise is reduced by up to 30 dB and of course our sandwich panels comply with fire protection requirements, as does the following selection of our models, which we keep in stock in various RAL colors and can either be delivered or made available for collection at any time.

High energy efficiency thanks to wall elements with thermal properties

Even small thicknesses of the insulation cores in the double-shell wall elements can ensure a significant improvement in the U-value. The U-value serves as a measure of the thermal permeability of building elements. Wall elements with a thicker foam core have such a low heat transfer that in practice they meet the passive house standard. Insulated roofs are available from a 30mm core (Penta-30 / 70mm total height) and are available with thicknesses of up to 120mm core (SIPD-1000 / 180mm total height). In the Isowand area we offer you core thicknesses from 30mm (Mec-30) up to a thickness of 170mm (SIPW-170).

In the thermal wall area, we offer versions with visible screw connections or with hidden screw connections. Thermal roof and wall elements made of PIR foams open up numerous design options thanks to their modern and attractive appearance. If necessary, both the inner and outer shell (steel) can be individually adjusted. Thanks to different thicknesses and lines such as "lightly lined (LL lined)", "microlined (ML lined)", you get your personal desired look.



Material selection for our sandwich panels

In addition to the steel profiles for the outer panels in different thicknesses and also the inner panels, the insulation materials in the middle of the sandwich panel are of course particularly important.

For this we use:

PIR (Polyisocyanurates)

The PIR we use is free of CFCs and corresponds to building material class B1 according to DIN 4102 (flame retardant).

Mineral wool (MiWo)

The sandwich panels with an insulating layer made of mineral wool meet the highest standards of sustainability and environmental protection.

We also bring color into play - In addition to the sandwich panels that we have in stock in different colors, we can always supply your desired sandwich panels from the special colors you specify, so that you can, for example, fully realize the corporate design of your company.

Wir sind Ihr Ansprechpartner für Sandwichpaneele:

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