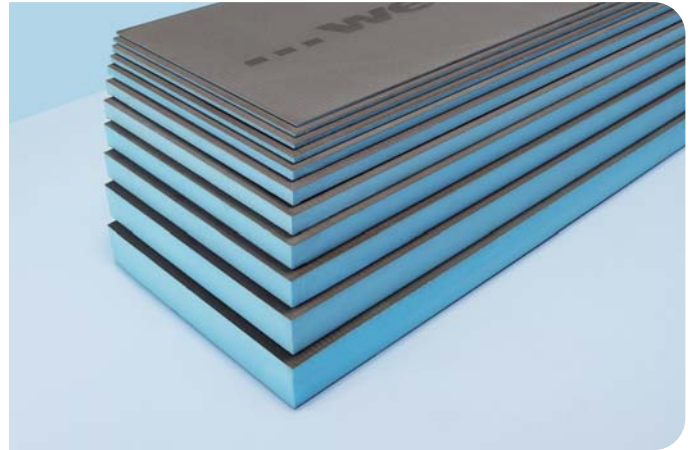


Technical data sheet

wedi building board

- For walls, ceilings and floors
- Waterproof and heat-insulating



General product description

The wedi building board consists of a blue core made from extruded polystyrene rigid foam. The rigid foam is reinforced with glass fibre (with alkali-resistant finish) on both sides and coated with a polymer-modified cement.

Applications

With its special properties, the wedi building board has a wide variety of applications.

- Carrier element for laying tiles, slabs and natural stone floor coverings using the thin-bed method
- Adhesive surface for applying plaster, tile adhesive and other materials
- Moisture protection
- Effective heat insulation
- Design element
- Composite sealing with tile and slab coverings of load class A and B (directly loaded walls and floors in rooms in which tap or cleaning water is used very frequently or for long periods, walls and floors of indoor and outdoor pools that are filled with water with the properties of drinking water). More info available at www.wedi.de

wedi building boards are approved for interior use in rooms at a normal temperature. Contact wedi on the application method for special applications (swimming pools, cold stores, external areas etc.). wedi building boards are approved for use on floors in rooms with an ordinary residential load. Wheeled loads with high concentrated loads are not permitted.

Product properties

wedi building boards can be fitted on almost any surface, and they are waterproof, heat-insulating, versatile, lightweight, and dimensionally stable and quick to process.

Surface requirements, laying

Information on the processing and surface requirements can be found in the "General Guidelines for Use of wedi building boards, wall and floor applications".

Technical properties – Rigid foam

HCFC-free extruded polystyrene rigid foam with closed cell structure and flame-retardant additive.

Long-term compressive strength (50 years) \leq 2% compression EN 1606	0.08 N/mm ²
Compressive resistance or compressive strength at 10% compression EN 826	0.25 N/mm ²
Associated module of elasticity EN 826	10–18 N/mm ²
Thermal conductivity EN 13164	0.036 W/mK
Tensile strength EN 1607	0.45 N/mm ²
Shearing resistance EN 12090	0.2 N/mm ²
Shear modulus EN 12090	7 N/mm ²
Bulk density EN 1602	32 kg/m ³
Resistance to water vapour diffusion (μ) EN 12086	100
Water absorption under long-term immersion EN 12087	\leq 1.5 % by vol.
Capillar action	0
Linear coefficient of thermal expansion	0.07 mm/mK
Temperature limits	-50°C / +75°C
Fire behaviour DIN 4102	B1
Fire behaviour EN 13501	E

Technical properties – wedi building board

Fire behaviour DIN 4102-1 (from 4 mm board thickness)	B2
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Nominal thickness in mm	Thermal resistance $1/\Delta$ $m^2 \times K/W$ ¹⁾	U-value $W/m^2 \times K$ ²⁾
4 (Length: 1250 mm)	0.108	3.60
6	0.167	2.97
10	0.280	2.22
20	0.514	1.46
30	0.800	1.03
40	1.086	0.80
50	1.371	0.65
60	1.657	0.55
80	2.229	0.42
100	2.800	0.34

- ¹⁾ When determining the thermal resistance $1/\Delta$, thermal conductivity group 035 in accordance with DIN 4108 is taken as the basis for the thermal insulation.
- ²⁾ When determining the U-value, only wedi building board and heat transmission resistance $1/\alpha_i$ and $1/\alpha_e$ for external walls are taken into account. In specific applications, the existing masonry and other layers must also be included.

Packing

Boards on pallets

Storage

In principle, wedi building boards should be stored flat irrespective of their thickness. They must be protected against direct sunlight and moisture.

Safety notice

none