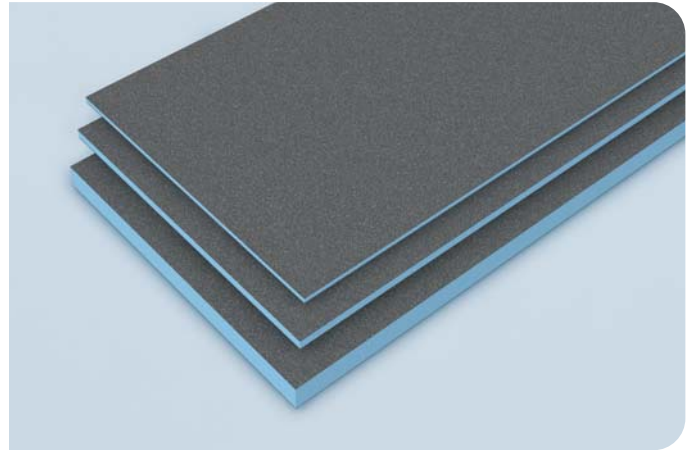


Technical data sheet

wedi building board Vapor

- For rooms where there is a permanently raised level of humidity
- For walls, ceilings and floors
- Vapour barrier and thermal insulation



General product description

The wedi building board Vapor is a composite element made from extruded polystyrene rigid foam reinforced on both sides with a special cement coating and with a vapour barrier on one side.

Applications

With its special properties, wedi building boards Vapor have a wide variety of applications

- Carrier material for laying tiles using the thin-bed method
- Adhesive surface for applying plaster, tile adhesive and other materials
- Moisture protection
- Effective heat insulation
- Vapour barrier

The wedi building board Vapor is approved for interior use on swimming pool walls and ceilings, steam baths, communal shower facilities and any areas where a vapour barrier is required for structural reasons when internal thermal insulation is installed. Use on floors is only approved if no wheeled loads or concentrated loads are expected.

Product properties

Tile and plaster carrier element for thermal insulation and simultaneous vapour barrier in rooms with permanently raised humidity. wedi building boards Vapor can be fitted on almost any surface, and they are waterproof, heat-insulating, versatile and quick to process.

Surface requirements

Information on the processing and surface requirements can be found in the "General Guidelines for Use of wedi building boards, wall and floor applications". The joints are not formed in the way shown in the aforementioned General Guidelines for Use: The joints are filled with an epoxy resin tile adhesive and the sealing band is inserted (recommended: wedi Tools sealing tape). The edges of the sealing tape are then rubbed with epoxy resin tile adhesive and sprinkled with quartz sand.



* Information sur le niveau d'émission de substances volatiles dans l'air intérieur, présentant un risque de toxicité par inhalation, sur une échelle de classe allant A+ (très faibles émissions) à C (fortes émissions).

Technical properties of raw foam building board systems

Extruded polystyrene rigid foam core	XPS
Long-term compressive strength (50 years) \leq 2% compression EN 1606	0.08 N/mm ²
Compressive resistance at 10% compression EN 826	0.25 N/mm ²
Thermal conductivity EN 13164	0.036 W/mK
Bulk density DIN EN 1602	32 kg/m ³
Temperature limits	-50°C / +75°C
Fire behaviour EN 13501	E

Technical properties of building board Vapor

Composite element made of extruded polystyrene rigid foam reinforced on both sides with a special cement coating and a vapour barrier on one side.

Colour	Grey
Dimensions	600 x 2500 mm
Thickness	14 mm, 21.5 mm, 51.5 mm
Vapour barrier (sanded epoxy resin vapour barrier)	1.5 mm
Equivalent air space thickness, sd value (epoxy resin vapour barrier)	283 m
Resistance to water vapour diffusion (μ) EN 12086	188571
Fire behaviour EN 13501	E

Nominal thickness in mm	Thermal resistance $1/\Delta$ m ² x K/W ¹⁾	U-value W/m ² x K ²⁾
14	0.3	2.13
21.5	0.514	1.46
51.5	1.371	0.65

- 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 $1/\alpha_a$ for external walls are taken into account. In specific applications, the existing masonry and other layers should also be included.

Packing

Boards on pallets

Storage

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