

webertherm EPS plus

Carbon-reinforced polystyrene thermal insulation panel

Technical Data Sheet
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Description

Polystyrene-based, carbon reinforced thermal insulation panel.

Range of application

- Applied as thermal insulation panel on both interior and exterior walls of all buildings.

Conditions of application

- Ambient temperature is between +5 °C and +30 °C.

Performance

- Thermal conductivity coefficient : $\leq 0,032$ W/mK
- Density: 16 kg/m³
- Compressive strength: 60 kPa
- Flexural strength: 100 kPa
- Fire resistance: E class
- Tensile strength perpendicular to the surface: ≥ 100 kPa
- Squareness tolerance: ± 2 mm
- Flatness tolerance: ± 5 mm
- Length tolerance: ± 2 mm
- Width tolerance: ± 2 mm
- Thickness tolerance: ± 1 mm
- Long term water absorption by immersion: $\leq 0,5$ kg/m²

Reference standards

- TS EN 13163

Storing conditions

- Package should be kept in cool and lofted places and separated from flammable materials as such thinner, solvent etc.
- Package should not be exposed to direct sunlight.
- Package should be kept away from any heat sources.

Packaging information

Thickness	Panels per package	Total
20 mm	25 panels	12,5 m ²
30 mm	16 panels	8 m ²
40 mm	12 panels	6 m ²
50 mm	10 panels	5 m ²
60 mm	8 panels	4 m ²
70 mm	7 panels	3,5 m ²
80 mm	6 panels	3 m ²
100 mm	5 panels	2,5 m ²

Panel dimensions

- 500 mm x 1000 mm.

Application

- webertherm** group adhesives should be applied all around of insulation panel and 5 mm of space should be left from the edges all around the board.
- 3 big parts **webertherm** group adhesives should be applied to the section in the middle in the point way.
- It should be noticed that 40 % of insulation panel must have coated with adhesive. Adhesives should not be excessive in joints as to prevent them to serve as conductor.
- webertherm** group renders can be applied on insulation panels after 2 days depending on weather conditions.
- Panels should be installed continuously, starting from the bottom of the wall working upwards and also stagger the vertical joints in correspondence with corners and edges.
- After installing the panels, fill in the gaps with **webertherm EPS plus** or insulating material.
- Anchor fixing should start after the adhesive is completely dry (24 hours).
- Anchor fixing should not generate any bumps on the surface.
- Minimum 6 anchors should be fixed per each squaremeter. More anchors should be used at the corners and around windows.
- Render application should start after anchor fixing for whole surface is completed.
- Corner profiles should be used on weak points such as corners and around windows.
- All tools should be cleaned with water after the application before drying.

The stated times apply for 20 °C substrate and ambient temperature and increase at lower temperatures and decrease at high temperatures.

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