

weber.therm EPS carbon

Carbon-reinforced polystyrene thermal insulation panel

Technical Data Sheet

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Description

Polystyrene-based, carbon reinforced thermal insulation panel.

Reference standards

- TS 13163

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.

Application

- **weber.therm** 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 **weber.therm** 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.
- **weber.therm** 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 **weber.therm EPS carbon** 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.

Technical Information

Product	weber.therm EPS carbon
Thermal conductivity coefficient	0,032 W/mK
Compressive strength	≥50 kPa
Flexural strength:	≥75 kPa
Fire resistance	E
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	≤0,5 kg/m ²

Storage

Packaging	500mm* 1000mm	
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
Storing conditions	<ul style="list-style-type: none">• 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.	

LEGAL WARNING

Since there are different conditions and requirements that apply in any case, Saint-Gobain Weber Yapı Kimyasalları San. ve Tic. A.Ş. cannot be liable for other than the information provided in this product datasheet.

* 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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