

Austrotherm

Facade insulation board EPS - 150

Product	Factory block-foamed and expanded polystyrene particle cell board (EPS-F according to ÖNORM B 6000, ÖNORM EN 13163 and the GPH quality guidelines (polystyrene quality seal) for the heat insulation of facades.																										
Composition	Expanded polystyrene granulate.																										
Properties	Highly heat insulating, high dimensional accuracy, deformation and ageing resistance, non-shrinking, hardly flammable. Thermal insulation plates from expanded polystyrene for medium load																										
Application	Thermal insulation plates into floors and roofs with medium load, under floors, to flat roofs, to create gradient layers of flat roofs, for under floor heating and for cooling boxes.																										
Technical data	<table border="0"> <tr> <td>Name:</td> <td>EPS-F (according to ÖNORM B 6000 and ÖNORM EN 13163)</td> </tr> <tr> <td>Apparent density:</td> <td>28-33 kg/m³</td> </tr> <tr> <td>Compressive stress (at 10% compression):</td> <td>150 kPa (15 t/m²)</td> </tr> <tr> <td>Compression strength:</td> <td>0,14- 0.24 N/mm²</td> </tr> <tr> <td>Thermal conductivity λ_R:</td> <td>0.034 W/mK 0.23 [BTU in /ft².hr. °F]</td> </tr> <tr> <td>μ value:</td> <td>40</td> </tr> <tr> <td>Supplied thicknesses:</td> <td>2 -20 cm</td> </tr> <tr> <td>Format:</td> <td>100 x 50 cm</td> </tr> <tr> <td>Material consumption:</td> <td>2 boards/m²</td> </tr> <tr> <td colspan="2">Behaviour in fire according to ÖNORM (Austrian standard) B 3800 Pt 1:</td> </tr> <tr> <td>Combustibility grade:</td> <td>B1 – hardly flammable</td> </tr> <tr> <td>Smoking grade:</td> <td>Q3</td> </tr> <tr> <td>Drop formation category:</td> <td>Tr1</td> </tr> </table>	Name:	EPS-F (according to ÖNORM B 6000 and ÖNORM EN 13163)	Apparent density:	28-33 kg/m ³	Compressive stress (at 10% compression):	150 kPa (15 t/m ²)	Compression strength:	0,14- 0.24 N/mm ²	Thermal conductivity λ_R :	0.034 W/mK 0.23 [BTU in /ft ² .hr. °F]	μ value:	40	Supplied thicknesses:	2 -20 cm	Format:	100 x 50 cm	Material consumption:	2 boards/m ²	Behaviour in fire according to ÖNORM (Austrian standard) B 3800 Pt 1:		Combustibility grade:	B1 – hardly flammable	Smoking grade:	Q3	Drop formation category:	Tr1
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Drop formation category:	Tr1																										
Classification according to the Chemical Substances Act	Not subject to labelling requirements																										
Storage	When storing the product, always protect against ultraviolet radiation (sun), the weather and mechanical damage.																										
Quality assurance	Internal quality assurance is provided by the manufacturer's plant, external checks are carried out by approved test institutes according to ÖNORM B 6000 and ÖNORM EN 13163.																										

Written and oral application technology recommendations provided by us to assist the seller/processor are based on our experience and reflect the current state of the art in science and practical application know-how. However, it is understood that these recommendations are non-binding. They do not create any legal relationship or any ancillary obligations in connection with the sale contract. They do not release the buyer from its obligation to verify the fitness of our products for the intended purpose or use by itself.

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Thermal resistance (R) On the basic of ASTM C-518

Thermal conductivity $\lambda_R = 0.23$ [BTU in /ft².hr. °F]

Calculate of thermal resistance R [ft².hr. °F /BTU] :

$$R = d / \lambda_R$$

R - Thermal resistance R [ft².hr. °F /BTU]

d - Thickness of material [in]

λ_R - Thermal conductivity [BTU in /ft².hr. °F]

Thermal resistance of polystyrene EPS- 150

Thickness of EPS- 150 [in cm]	R [ft ² .hr. °F /BTU]
2 cm	3.3
5 cm	8.3
8 cm	13.3
10 cm	16.6
12 cm	20.0
15 cm	25.0
18 cm	30.0
20 cm	33.4
25 cm	41.7
30 cm	50.1

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