

Austrotherm

Facade insulation board EPS - F 70

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.																												
Application	As an exterior wall heat insulation composite system for the facade of new and existing buildings. In the ground course area, we recommend the use of XPS-R boards.																												
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>15 - 18 kg/m³</td> </tr> <tr> <td>Compressive stress (at 10% compression):</td> <td>70 kPa (7 t/m²)</td> </tr> <tr> <td>Compression strength:</td> <td>0,07- 0.12 N/mm²</td> </tr> <tr> <td>Tensile strength:</td> <td>0,20-0,30 N/mm²</td> </tr> <tr> <td>Thermal conductivity λ_R:</td> <td>0.040 W/mK</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> </table> <table border="0"> <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:	15 - 18 kg/m ³	Compressive stress (at 10% compression):	70 kPa (7 t/m ²)	Compression strength:	0,07- 0.12 N/mm ²	Tensile strength:	0,20-0,30 N/mm ²	Thermal conductivity λ_R :	0.040 W/mK	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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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.																												

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Thermal resistance (R)

On the basis of European Council Directive 89/106/EC

Thermal conductivity $\lambda_R = 0.040$ [W/mK]

Calculate of thermal resistance **R** [m^2K/W] :

$$R = d / \lambda_R$$

R - Thermal resistance [m^2K/W]

d - Thickness of material [m]

λ_R - Thermal conductivity [W/mK]

Thermal resistance of polystyrene EPS-F 70

Thickness of EPS-F 70 [cm]	R [m^2K/W]
2	0.50
5	1.25
8	2.00
10	2.50
12	3.00
15	3.75
18	4.50
20	5.00
25	6.25
30	7.50

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