

Austrotherm Facade insulation board EPS - F 70

Factory block-foamed and expanded polystyrene particle cell board (EPS-F according to **Product**

ÖNORM B 6000, ÖNORM EN 13163 and the GPH quality guidelines (polystyrene

quality seal) for the heat insulation of facades.

Expanded polystyrene granulate. **Composition**

Properties Highly heat insulating, high dimensional accuracy, deformation and ageing resistance,

non-shrinking, hardly flammable.

As an exterior wall heat insulation composite system for the facade of new and existing **Application**

buildings. In the ground course area, we recommend the use of XPS-R boards.

EPS-F (according to ÖNORM B 6000 and Name: **Technical**

ÖNORM EN 13163)

data $15 - 18 \text{ kg/m}^3$ Apparent density:

Compressive stress (at 10% compression): 70 kPa (7 t/m²) 0,07-0.12 N/mm² Compression strength: Tensile strength: 0,20-0,30 N/mm² Thermal conductivity λ_R : 0.040 W/mK

0.29 [BTU in /ft2.hr.°F]

2 boards/m²

μ value: 40 Supplied thicknesses: 2 -20 cm 100 x 50 cm Format:

Behaviour in fire according to ÖNORM (Austrian standard) B 3800 Pt 1:

Combustibility grade: B1 – hardly flammable

Smoking grade: O3 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.

Material consumption:

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.



Thermal insulation board EPS-F 70 Thermal resistance (R) On the basic of ASTM C-518

Thermal conductivity $\lambda_R = 0.29$ [BTU in /ft2.hr. °F]

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

$\mathbf{R} = \mathbf{d}/\lambda_R$

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

d - Thickness of material [in]

 λ_R . Thermal conductivity [BTU in /ft2.hr. ${\rm ^{\circ}F}]$

Thermal resistance of polystyrene EPS-F 70

Thickness of EPS-F 70 [in cm]	R [ft2.hr.°F/BTU]
2 cm	2.8
5 cm	6.8
8 cm	10.9
10 cm	13.6
12 cm	16.3
15 cm	20.3
18 cm	24.5
20 cm	27.2
25 cm	34.00
30 cm	40.7

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