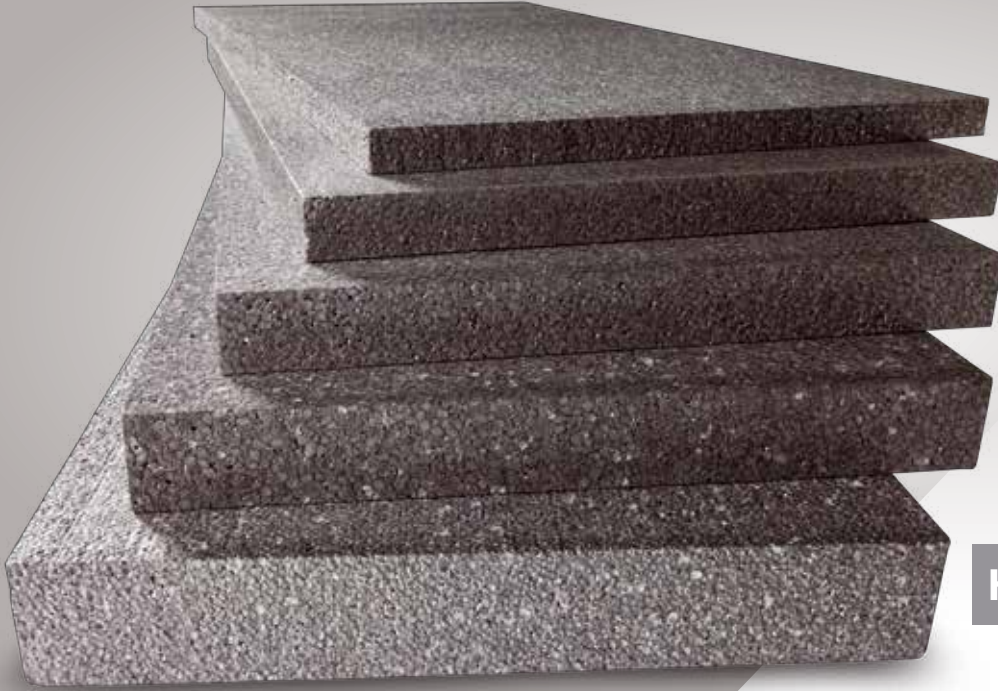


Austrotherm EPS PLUS®



HIGH INSULATION HEAT

PERFORMANCE

- ▶ **Graphite Additive**
- ▶ **High Thermal Insulation Performance**
 λ : 0,032 W/mK Heat Conduction Coefficient *
- ▶ **Thermal insulation solution from floor to roof**

* This value shows how much heat the material used transmits, and the low heat transmission coefficient indicates that the material has better heat insulation.

Austrotherm EPS PLUS® Thermal Insulation Board



Product sheet



Description

Product is produced from Expanded Polystyrene (EPS) and it is a gray colored thermal insulation board with Graphite additive. It offers high thermal insulation performance. It offers 20% better thermal insulation performance compared to white colored EPS thermal insulation boards. Gases harmful to human and environment are not used in its production.

Properties:

Its gray color is the result of the graphite additive it contains. Thanks to the graphite additive, it absorbs the rays coming from the sun while reflecting them at the same time. Due to this feature, it offers better thermal insulation performance compared to other gray colored EPS thermal insulation boards that do not contain graphite. Thanks to its high flexibility, it does not break, disintegrate and is easily applied to the wall during cutting. It does not hold water, its water repellent feature is increased and it has a very low water absorption rate. (WL (T) 2 ≤ 2%). It maintains dimensional stability throughout the life of the building. Gases harmful to human and environment are not used in its production.

Area of use:

It is used for external insulation of building walls, as well as for thermal insulation applications in terraces and hipped roofs, cold storage rooms. It is especially preferred in passive home applications.

Storage Information:

It should be stored in a cool and ventilated, non-humid environment. Avoid contact with direct sunlight and being located near heat sources.

Quality certificates: Complies with TS EN 13163:2012+A2



Technical Specifications

Product Type: EPS 70, EPS 90

Graphite Based Thermal Insulation Board

Color: Gray

Thickness: Between 1cm - 20cm

Size: 50x100cm

Edge Shape: Straight

Cell Content: Air 98%, 2% Polystyrene

Packaging: PE nylon

Austrotherm EPS PLUS®						
Technical Specifications	EPS 70	Unit	Class	EPS 90	Unit	Class
Thermal Conductivity Coefficient (λ)	0,032	W/mK		0,031	W/mK	
Water Vapor Diffusion Resistance Factor - μ	20-40		μ	30-70		μ
Length Tolerance	±2	mm	L2	±2	mm	L2
Tolerance	±2	mm	W2	±2	mm	W2
Thickness Tolerance	±1	mm	T1	±1	mm	T1
Miter Tolerance	±2	mm	S2	±2	mm	S2
Surface Smoothness	±3	mm	P3	±3	mm	P3
Dimensional Stability in Fixed Conditions	±0,2	%	DS(N)2	±0,2	%	DS(N)2
Dimensional Stability at Specific Temperature and Humidity	1	%	DS(70,-)1	1	%	DS(70,-)1
Compressive Strength at 10% Deformation	≥70	kPa	CS(10)70	≥90	kPa	CS(10)90
Crush Resistance	≥115	kPa	BS115	≥135	kPa	BS135
Tensile Strength Perpendicular to the Surface	≥100	kPa	TR 100	≥130	kPa	TR 130
Long Term Water Absorption-Full Immersion	≤ 2,0	%	WL(T) 2	≤ 2,0	%	WL(T) 2
Fire Resistance (TS EN 13501-1)	E			E		
Thickness*	1-20	cm		1-20	cm	
Dimensions	50x100	cm		50x100	cm	
Usage Temperatures	(-)/50/75(+)	°c		(-)/50/75(+)	°c	

* It is recommended to be used at least 4 cm and above thickness in external applications.

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