# WARM Therm EPS

Product Catalogue

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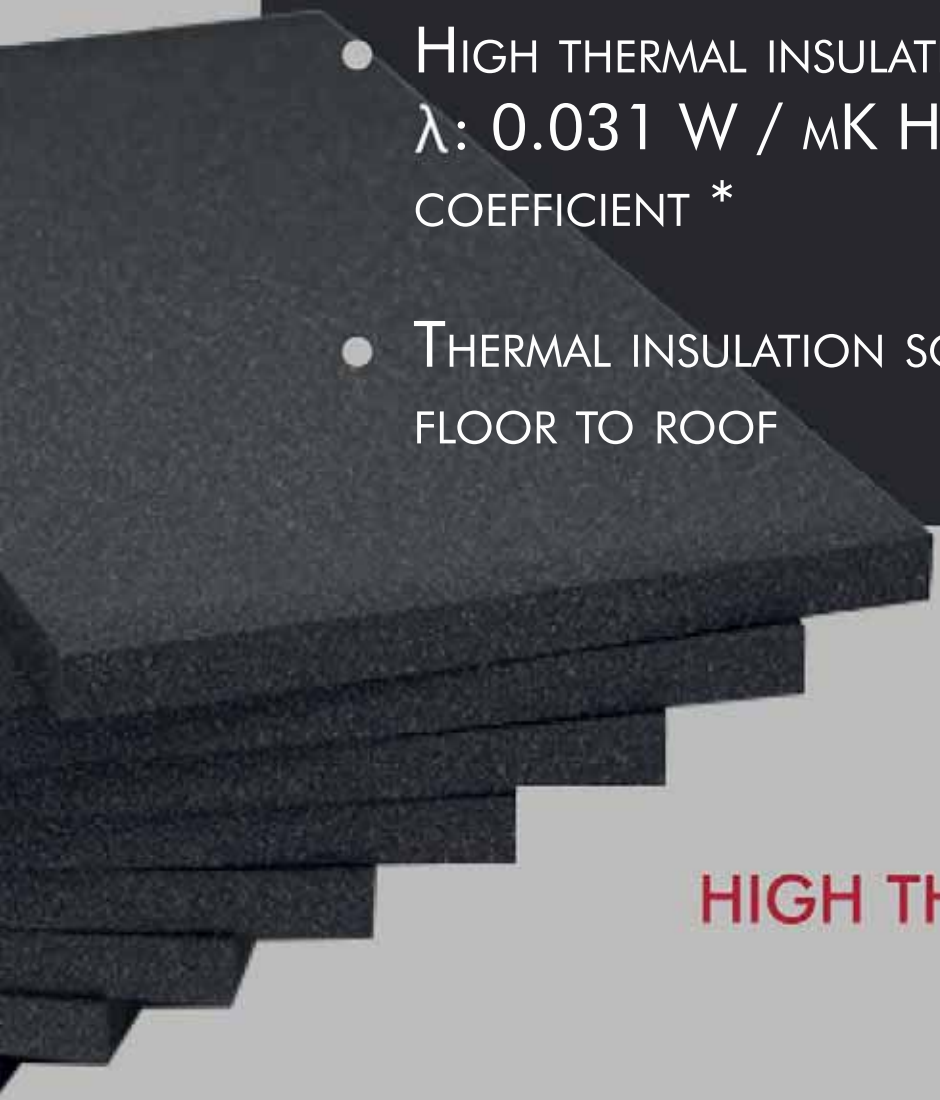
# WARM THERM EPS

- Graphite additive
- High thermal insulation performance λ: 0.031 W / mK Heat conduction coefficient *
- Thermal insulation solution from floor to roof



## HIGH THERMAL INSULATION PERFORMANCE

CE

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

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## Description

## Grey EPS

Expanded Polystyrene is a lightweight closed cell rigid insulation formed by the expansion of polystyrene beads. EPS has excellent long term thermal and Moisture resistance. EPS insulation is reliable, cost effective and compatible with major construction materials systems.

The product is made of Expanded Polystyrene (EPS) and has a gray thermal insulation panel with Graphite additive. Offers high thermal insulation performance. It offers 20% more heat insulation performance than white EPS thermal insulation panels.Gas harmful to humans and the 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 of insulation in terraces and hipped roofs, cells refrigerating rooms. It is particularly preferred in the passive domestic applications. Conservation Information: Should be stored in a cool and ventilated, not humid environment. Avoid contact with direct sunlight and be near heat sources.

## Property

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. Thanks to this feature, it offers better thermal insulation performance than other EPS gray color insulation panels that do not contain graphite. Thanks to its high flexibility, it does not break, does not disintegrate and is easily applied to the wall when cutting.

It does not retain water, it is water repellent characteristic is increased and has a very low water absorption rate. (WL (T) 2 2%). Maintains dimensional stability throughout the life of the building. No gases that are harmful to humans and the environment are used in its production.

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## THERMAL INSULATION PANEL - GREY

## PRODUCT DETAILS

### Technical specifications

Product type: EPS50, EPS 70, EPS 90
Graphite-based thermal insulation panel
Color: Grey
Thickness: Between 1cm - 20cm
Dimensions: 50x100 cm
Edge shape: Straight
Cellular content: Air 98%, 2% polystyrene
Packaging: PE nylon

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| Technical Specifications | EPS 50 | Unit | Class | EPS 70 | Unit | Class | EPS 90 | Unit | Class |
|---|---|---|---|---|---|---|---|---|---|
| Thermal Conductivity: | 0,033 | W/mK | | 0,032 | W/mK | | 0,031 | W/mK | |
| Length Tolerance: | 2 | mm | L(2) | 2 | mm | L(2) | 2 | mm | L(2) |
| Width Tolerance: | 2 | mm | W(2) | 2 | mm | W(2) | 2 | mm | W(2) |
| Thickness Tolerance: | 1 | mm | T(1) | 1 | mm | T(1) | 1 | mm | T(1) |
| Miter Deviation Tolerance: | 2 | mm | S(2) | 2 | mm | S(2) | 2 | mm | S(2) |
| Surface Smoothness Tolerance: | 4 | mm | P(4) | 4 | mm | P(4) | 4 | mm | P(4) |
| Dimensional Stability | 0,5 | % | DS(N)5 | 0,5 | % | DS(N)5 | 0,5 | % | DS(N)5 |
| At Certain Temperature and Relative Humidity Conditions Dimensional Stability: | 1 | % | DS(23/90)1 | 1 | % | DS(23/90)1 | 1 | % | DS(23/90)1 |
| Compressive stress at 10% deformation: | 50 | kPa | | 70 | kPa | | 90 | kPa | |
| Bending strength: | 75 | kPa | BS75 | 115 | kPa | BS115 | 135 | kPa | BS135 |
| Thermal Resistance: | 1,50 | $m^2K/W$ | | 1,55 | $m^2K/W$ | | 1,60 | $m^2K/W$ | |
| Long Term Water Absorption with Partial Immersion: | 2 | % | WL(T) 2 | 2 | % | WL(T) 2 | 2 | % | WL(T) 2 |
| Response to Fire Class: (TS EN 13163-2012) | E | | | E | | | E | | |