

HYGROSMART® – TH EPS

Thermal insulation boards from expanded polystyrene (EPS)

DESCRIPTION

HYGROSMART®-TH EPS is a widely used material, used in the construction industry from the foundations to the roof. It is a lightweight rigid insulation material produced from solid polystyrene beads. It can be produced either as rectangular square/butt edge boards or with grooves and ship lapped edges. The white expanded polystyrene products are categorized based on their compressive strength, eg. EPS 80, EPS 100, etc.

COMPLIANCE - CERTIFICATION

CE certified according EN 13163:2012+A1:2015

APPLICATION

Ideal for external thermal insulation, cavity wall insulation, wall internal insulation, floor and basement insulation, internal or external pitched roof insulation.

ADVANTAGES

- Excellent thermal insulation properties.
- Low water vapor diffusion coefficient μ , thus preventing the formation of water vapor condensation.
- It has structural stability and does not decompose. EPS stability is not affected over time.
- Excellent compatibility with most building materials (gypsum, anhydrite, cement, organic and inorganic mortars).
- It is fully recyclable and environmentally friendly.
- It is self-extinguishing SE as it contains in its mass flame retardants.
- It has excellent price-performance ratio.

STORAGE

According to the ELOT EN 13163 production standard, the service life of EPS products is very long. It is recommended for the product to be stored in a shady place.

HYGROSMART® – TH EPS

TECHNICAL SPECIFICATIONS

HYGROSMART TH-EPS 80: EPS -EN 13163-T(1)-L(2)-W(2)-S(2)-P(5)-DS(N)2-BS125-CS(10)80-TR150

Performance EPS 80		Harmonized technical specification
W_{Ip}	≤ 0,5 kg/m ²	EN 13163:2012 + A1:2015
λ_D	0,036 W/(m*k)	
f_{tk}	≥ 0,02 N/mm ²	
G_m	≥ 1,0 N/mm ²	

HYGROSMART TH-EPS 100: EPS - EN 13163 - T(1) - L(2) - W(2) - S(2) - P(5) - DS(N)2 - DS (70,-)1 - BS150 - CS(10)100 - TR150

Performance EPS 100		Harmonized technical specification
W_{Ip}	≤ 0,5 kg/m ²	EN 13163:2012 + A1:2015
λ_D	0,034 W/(m*k)	
f_{tk}	≥ 0,02 N/mm ²	
G_m	≥ 1,0 N/mm ²	

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