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.

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.
- Law 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

TECHNICAL SPECIFICATIONS EPS 80	
W_{lp}	≤ 0,5 kg/m^2
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

TECHNICAL SPECIFICATIONS EPS 100	
W_{lp}	≤ 0,5 kg/m^2
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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