

XPS insulating panel



Description

Thermal insulating yellow panel, consisting of rigid foam of extruded polystyrene with a smooth surface (with extrusion skin). The product is CFC and HCFC free. The side edges may be straight, hinged on four sides, interlocking M/F on two or on all four sides.

Fields of use

- Pitched roofs (ventilated roof under tiles or slates, roof with hood).
- Flat roofs (walkable inverted roof, not walkable, with roof garden).
- Cavity and perimeter wall.
- Industrial pavement.

Technical data

Characteristics	Symbol U.M.	Value											Standard
		20	30	40	50	60	70	80	90	100	120	140	
Apparent density	MVA (kg/m ³)	30 ±3											UNI EN 1602
Declared thermal conductivity	λ_p (10°C W/mk)	0.034					0.036				0.038		UNI EN 13165 (Appendix A-C)
Declared heat resistance $R_p = d/\lambda_p$	R_p (m ² K/W)	0.55	0.85	1.15	1.45	1.75	1.90	2.20	2.50	2.75	3.15	3.65	UNI EN 13165
Dimensional stability (+70±2)°C and (90±5)% U.R. per (48±1) h	DS (TH) (%)	< 1.0 linear variation < 4.0 thickness variation											EN 1604
Dimensional stability (+20±3)°C per (48±1) h	DS (TH) (%)	< 0.5 linear variation < 1.0 thickness variation											EN 1604
Limit temperature of use	°C	+75											
Compressive strength at 10% deformation	σ_{10} (kPa)	250	300										UNI EN 826
Tensile strength	σ_{mt} (kPa)								200				EN 1607
Water absorption in the long term by total immersion	WL (T) (%)	≤0.7											UNI EN 12087 method 2A
Water vapour transmission by diffusion	μ	200 ÷ 100											UNI EN 12086
Reaction to fire	Euroclass	E											UNI EN 11925-2 UNI EN 13501-1
Specific heat	C_p (J/kgK)	1450											

Dimensional tolerance

Thickness (d)	mm	d < 50 50 ≤ d ≤ 120 d ≥ 140	±2 +3 -2 +8 -2	UNI EN 823	T1
Length and width (L)	mm	L < 1000 1000 ≤ L ≤ 3000	±8 ±10	UNI EN 822	

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