

XPS

THERMAL INSULATING PANELS

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.



CHARACTERISTICS	SYMBOL M.U.							NORM
		30	40	50	60	80	100	
Declared thermal conductivity	λ_D (10°C W/mk)	0,034			0,035			UNI EN 13164
Declared heat resistance $R_D = d/\lambda_D$	R_D (m²K/W)	0,88	1,17	1,42	1,71	2,25	2,85	UNI EN 13164
Dimensional stability at 70°C with 90% RH	DS (TH) (%)	≤ 5						EN 1604
Deformation under load 40 kPa 70°C	DLT (2) (%)	≤ 5						EN 1605
Operating limit temperature	°C	+75						UNI EN 14706
Compressive strength at 10% deformation	σ_{10} (kPa)	≥ 200		≥ 250		≥ 300		UNI EN 826
Tensile strength	σ_{mt} (kPa)	> 400						EN 1607
Water absorption in the long term by total immersion (28 days)	WL (T) (%)	≤ 1						UNI EN 12087
Water vapour transmission by diffusion	μ	80	70	65	55	70	UNI EN 12086	
Reaction to fire	Euroclass	E						UNI EN 11925-2 UNI EN 13501-1
Coefficient of linear thermal expansion	mm/mK	0,07						UNI EN ISO 1923
Specific heat	C_p (J/kgK)	1450						UNI EN ISO 10456
Closed cells	CV %	> 95						UNI EN ISO 4590
Water absorption in the long term by diffusion (28 days)	Vol. %	≤ 5			≤ 3			EN 12088

DIMENSIONAL TOLERANCE

THICKNESS	mm	< 50 from 50 to 100	-2; +2 -2; +3	UNI EN 823	T1

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