

POLYURETHANE

Insulation panels with saturated fiberglass finish



Description

Thermal insulating panel made from closed cell rigid polyiso foam, protected with covering of saturated fiberglass. The product is free of CFC and HCFC.

Areas of application

- Insulation of flat or sloped roof
- Insulation of floors
- Insulation of walls.

Technical data

Characteristics	M.U. symbol	Value											Norm
		20	30	40	50	60	70	80	90	100	110	120	
Panel mass	MVA (kg/m ³)	35											UNI EN 1602
Declared thermal conductivity	λ_D (10°C W/mk)	0,028					0,026						UNI EN 13165 (Appendix A-C)
Initial thermal conductivity	$\lambda_{90/90,i}$ (10°C W/mk)	0,024											EN 12667
Declared thermal resistance $R_D = d/\lambda_D$	R_D (m ² K)/W	0,70	1,05	1,40	1,75	2,10	2,50	3,05	3,45	3,80	4,20	4,60	UNI EN 13165
Declared thermal transmittance $U_D = \lambda_D/d$	U_D (W/m ² K)	1,40	0,93	0,70	0,56	0,46	0,40	0,33	0,29	0,26	0,24	0,22	
Dimensional stability (+70±2)°C e (90±5)% U.R. for (48±1) h	DS (TH) (%)	≤1.0 (side variations) ≤4.0 (thickness variations)											EN1604
Dimensional stability (+20±3)°C for (48±1) h	DS (TH) (%)	≤0.5 (side variations) ≤1.0 (thickness variations)											EN1604
Compression resistance at 10% of deformation	σ_{10} (kPa)	150											UNI EN 826
Water absorption totally submersed for a long period of time	WL (T) (%)	≤2.0											UNI EN 12087 method 2A
Water vapor diffusion resistance	Z (m ² h Pa/mg)	20 ±4											UNI EN 12086
Factor of water vapor diffusion resistance	μ 80 mm	175											UNI EN 12086
Reaction to fire	Euroclass	E											UNI EN 11925-2 UNI EN 13501-1
Specific warmth	C_p (J/kgK)	1470											

Dimensional tolerances

Thickness (d)	mm	d < 50 50 ≤ d ≤ 70 d ≥ 80	±2 ±3 -2 +5	UNI EN 823	T2
Length and width (L)	mm	L < 1000 1000 ≤ L ≤ 2000 2000 ≤ L ≤ 4000 d > 4000	±5 ±7,5 ±10 ±15	UNI EN 822	
Aspect	Surface imperfections and any areas of non-adhesion between coating and foam are originated by the production process and do not prejudice in any way the physical-mechanical properties of the entire panel.				

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