

POLYURETHANE

Insulation panels with "Duo Twin" type finish



Description

Thermal insulating panel made from closed cell rigid polyiso foam, protected with waterproof multilayer gas covering A-Cell®.

Areas of application

- High performance insulation of flat or sloped roof.
- High performance insulation of floors.
- High performance insulation of walls.

Technical data

Characteristics	M.U. symbol	Value										Norm
		30	40	50	60	70	80	90	100	110	120	
Panel mass	MVA (kg/m ²)	38,5 ±2										UNI EN 1602
Declared thermal conductivity	λ_D (10°C W/mk)	0,023										UNI EN 13165 (Appendix A-C)
Initial thermal conductivity	$\lambda_{90/90,i}$ (10°C W/mk)	0,022										EN 12667
Declared thermal resistance $R_D = d/\lambda_D$	R_D (m ² K)/W	1,30	1,70	2,15	2,60	3,00	3,45	3,90	4,30	4,75	5,20	UNI EN 13165
Declared thermal transmittance $U_D = \lambda_D/d$	U_D (W/m ² K)	0,77	0,58	0,46	0,38	0,33	0,29	0,26	0,23	0,21	0,19	
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)	≥130										UNI EN 826
Water absorption totally submersed for a long period of time	WL (T) (%)	≤1,5										UNI EN 12087 method 2A
Water vapor diffusion resistance	Z (m ² h Pa/mg)	31 ±14										UNI EN 12086
Factor of water vapor diffusion resistance	μ 80 mm	273										UNI EN 12086
Reaction to fire	Euroclass	F										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.				

Pluvitec reserves the rights to change or modify the nominal values without prior notice or advice.