



TECHNICAL DATA SHEET ISOSTIF VERCOP

DESCRIPTION

ISOSTIF VERCOP is a rigid thermal insulation panel composed by closed cells polyiso foam covered on both faces with non-woven glass fleece.

TECHNICAL PROPERTIES

Property	Unit	Value		Reference Normative Test Method	Symbol (according to EN 13165)
Density	Kg/m ³	35		EN ISO 845	
Initial thermal conductivity at 10 °C (statistic value)	W/mK	0,024		EN 12667	$\lambda_{90/90,i}$
Declared thermal conductivity at 10°C (25 years; aged value)	W/mK	20 mm ≤ d ≤ 70 mm	0.028	UNI EN 13165 (Annex A-C)	λ_D
		80 mm ≤ d ≤ 120 mm	0.026		
Declared thermal resistance calculated from the Declared Thermal Conductivity ($R_D = d/\lambda_D$)	(m ² K)/W	d = 20 mm	0,70	EN 13165	R_D
		d = 30 mm	1,05		
		d = 40 mm	1,40		
		d = 50 mm	1,75		
		d = 60 mm	2,10		
		d = 70 mm	2,50		
		d = 80 mm	3,00		
		d = 90 mm	3,45		
		d = 100 mm	3,80		
d = 120 mm	4,60				
Compressive stress at 10% deformation	kPa	20 mm ≤ d ≤ 120 mm	≥ 130	EN 826	σ_{10}
Water vapour diffusion resistance (Z)	m ² h Pa/mg	20 ± 4		EN 12086	Z
Long term water absorption by total immersion (28 days)	Vol. %	≤ 2,0		EN 12087 method 2A	WL(T)
Dimensional stability (+70±2)°C and (90±5)% U.R. for (48±1) h	%	Change in thickness: ≤ 4,0		EN 1604	DS (TH)
		Change in length: ≤ 1,0			
Dimensional stability (-20±3)°C for (48±1) h	%	Change in thickness: ≤ 1,0		EN 1604	DS (TH)
		Change in length: ≤ 0,5			
Reaction to fire	Euroclass	E		EN 11925-2 EN 13501-1	

DIMENSIONAL TOLERANCES (deviation from nominal values)

Thickness (d)	mm	d < 50	±2	EN 823	T2
		50 ≤ d ≤ 75	±3		
		d > 75	-2 + 5		
Length and Width (L)	mm	L < 1000	±5	EN 822	
		1000 ≤ L ≤ 2000	±7,5		
		2000 < L ≤ 4000	±10		
Aspect	Possible areas of non-adhesion between facing and foam come from the production process and do not alter the physical-mechanical properties of the boards.				

The ISOSTIF panels are subjected to strict Quality Control according to European Standards EN 13165 - "Thermal insulation products for building - Factory made rigid polyurethane foam (PUR) products - Specification" and to the procedures of our strict internal Quality System Control (according to UNI EN ISO 9001:2000). Each pack includes a label, according to EN 13165, in which CE Certification and Designation Code are applied.