



FABRICATION

XPS SOLUTIONS FOR INDUSTRIAL APPLICATIONS

X-FOAM MLB INDIGO WHITE

EXTRUDED POLYSTYRENE BOARD
[XPS - without HCFC - without HFC]



X-FOAM MLB INDIGO WHITE è una lastra per l'isolamento termico in polistirene espanso estruso di colore bianco, senza pelle di estrusione, senza CFC o HCFC e con i 4 bordi dritti. Le lastre dichiarano valori di resistenza alla compressione da 250 kPa a 300 kPa a seconda dello spessore. Hanno una larghezza da 900 mm a 1025 mm, lunghezza 3.055 mm e spessori disponibili da 6 mm a 100 mm. **X-FOAM MLB INDIGO WHITE** is rated to fire EUROCLASS E according to European Standard EN 13501-1. **X-FOAM MLB INDIGO WHITE** complies with the Minimum Environmental Criteria (CAM).

APPLICATIONS WITH X-FOAM MLB INDIGO WHITE: inverted roof, pitched roof, residential floor with or without heating system



CHARACTERISTIC	STANDARD	UNIT	VALUES
Thickness	EN 823	mm	6 - 100
Thickness tolerances Thickness from 6 mm to 100 mm	EN 823 EN 13164	mm	± 0,5
Length	EN 822	mm	3055
Width	EN 822	mm	900 - 1025
Length (l) and width (b) tolerances	EN 13164	mm	l o b ≤ 1500: +/- 8 l o b > 1500: +/- 10
Orthogonality tolerance (Sb)	EN 824/EN 13164	mm/m	1,5
Flatness tolerance (Smax)	EN 825/EN 13164	mm/m	2
Straightness tolerance on the long edge		mm/m	1,5
Density		kg/m ³	33 +/- 10%
Specific heat		J/kgK	1450
Coefficiente di dilatazione termici lineare		mm/mK	0,07
Slab profile	Straight squared edge		
Surface finishing	Rough skinless with or without grooves		
Groove tolerances	Pitch 40 mm	Width 2 mm (-0/+1)	Width 3 mm (-0/+1)

CHARACTERISTIC	STANDARD	UNIT	VALUES	
Thermal conductivity (λ_D) and Thermal resistance (R_D)			λ_D	R_D
Thickness 6 - 99 mm	EN 13164	λ_D : W/mK R_D : m ² K/W	0,034	0,00
Thickness 40 mm	EN 13164	λ_D : W/mK R_D : m ² K/W	0,033	1,95
Thickness 100 mm	EN 13164	λ_D : W/mK R_D : m ² K/W	0,034	2,95
Compressive stress at 10 % deformation				
Thickness from 6 mm to 99 mm Thickness 65 mm Thickness 100 mm	EN 826:	kPa	≥ 300 – CS(10/Y)300 ≥ 250 – CS(10/Y)250 ≥ 200 – CS(10/Y)200	
Compressive elastic modulus	EN 29469:	kPa	10 000	
Tensile elastic modulus	EN 12086:	kPa	5 000	
Shear resistance	EN 12086:	kPa	≥ 260	
Shear modulus	EN 12086:	kPa	2 700	
Traction perpendicular to the faces	EN 12086:	kPa	≥ 200 – TR200	
Dimensional stability at 70°C and 90% RH Changes in thickness, length and width	EN 1604	%	≤ 5 – DS(70,90)	
Deformation behavior. Condition test 70° C, 168 h, 40 kPa	EN 1605	%	≤ 5 – DLT(2)5	
Water absorption by immersion (28 days)	EN 16535:	Vol %	$\leq 0,7$ – WL(T)0,7	
Water absorption by diffusion (28 days)	EN 12088:	Vol %	$\leq 3\%$ – WD(V)3 sp.< 60 $\leq 2\%$ – WD(V)2 sp. 60 $\leq 1\%$ – WD(V)1 sp.> 60	
Resistance to water vapor diffusion (μ)	EN 12086:		MU 80	
Frost behavior (freeze - thaw alternation) after water absorption by long-term diffusion				
Thickness <60 mm Thickness ≥ 60 mm	EN 12091:	Vol %	≤ 2 – FTCD1 ≤ 1 – FTCD2	
Reaction to fire	EN 13501-1	Euroclasse	E	
Limit temperature of use		°C	+75	
Closed cell average		%	> 96	
VOC (Volatile Organic Compounds)	EN 16516 / ISO 16000	Class/Protocol	A+, Leed, Well, Breeam	

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