


X-FOAM[®] LMF

EXTRUDED POLYSTYRENE PANEL (XPS) [WITHOUT HCFC - WITHOUT HFC]

CHARACTERISTICS	STANDARD	UNIT	VALUES			
SIZE						
Thickness	EN 823	mm	30 - 100			
Thickness tolerance class (T1)	EN 823 EN 13164	mm	Thickness < 50 mm -2 /+2			
Thickness from 50 mm to 100 mm			-2 /+3			
Length	EN 822	mm	2800			
Width	EN 822	mm	600			
TYPE FINISH						
Male - female edges		Panel with skin surface				
THERMAL CONDUCTIVITY AND THERMAL RESISTANCE						
Declared thermal conductivity	EN 13164 EN 12667	W/mK	Thickness 30 mm 0,032			
Thickness 40 mm			0,033			
Thickness from 50 mm to 60 mm			0,034			
Thickness from 80 mm to 100 mm			0,035			
Thermal resistance (EN 13164)						
Thickness (mm):	30	40	50	60	80	100
Thermal resistance (m ² K/W):	0,90	1,20	1,45	1,75	2,25	2,85
COMPRESSIVE STRESS AT 10% DEFORMATION - σ_{10}						
Compressive strength	EN 826	kPa	Thickness from 30 mm to 40 mm ≥ 200			
Thickness from 50 mm to 60 mm			≥ 250			
Thickness from 80 mm to 100 mm			≥ 300			
COMPRESSIVE STRESS AT 2% DEFORMATION AFTER 50 YEARS						
Thickness from 30 mm to 100 mm	EN 1606	kPa	120			
DIMENSIONAL STABILITY AT SPECIFIED TEMPERATURE AND HUMIDITY CONDITIONS						
Condition test: (48±1) hours, (70±2)°C and (90± 5)% U.R.						
Changes in thickness, length and width	EN 1604	%	≤ 5			
DEFORMATION BEHAVIOR						
Test condition: 70°C, 168 hours, 40 kPa	EN 1605	%	≤ 5			
LONG TERM WATER ABSORPTION BY TOTAL IMMERSION (28 DAYS)						
Thickness from 30 mm to 100 mm	EN 12087	Vol. %	≤ 0,7			
WATER ABSORPTION BY DIFFUSION (28 DAYS)						
Thickness from 30 mm to 50 mm	EN 12088	Vol. %	≤ 5			
Thickness from 60 mm to 100 mm			≤ 3			
WATER VAPOUR DIFFUSION RESISTANCE FACTOR (μ)						
Thickness 30 mm	EN 12086		150			
Thickness from 40 mm to 100 mm			100			
FREEZE - THAW RESISTANCE						
Thickness from 30 mm to 100 mm	EN 12091	Vol. %	≤ 1			
REACTION TO FIRE						
Reaction to fire	EN 13501-1	Euroclass	E			
TEMPERATURE LIMIT USE						
Temperature limit use		° C	+ 75			