


# X-FOAM® ROOF

THERMAL INSULATION PANEL MADE OF SINGLE-LAYER EXTRUDED POLYSTYRENE WITH A TILE-BEARING METAL PROFILE

PROPERTY	NORM	UNITS	VALUE		
<b>DIMENSIONAL CHARACTERISTICS</b>					
Thickness	EN 823	mm	60 - 80 - 100 - 120 - 140		
Thickness Tolerance	EN 823 EN 13164	mm	-2 /+3		
Thickness from 60mm to 120mm Thickness 140 mm			-2 /+8		
Length	EN 822	mm	2400		
Width	EN 822	mm	Variable		
<b>EDGE PROFILE</b>					
Shiplap edges		Extrusion skin stamped in warms and contains a tile-bearing metal profile inserted along their length makes them fit for load-bearing			
<b>DECLARED THERMAL CONDUCTIVITY AND DECLARED THERMAL RESISTANCE</b>					
Declared thermal conductivity ( $\lambda_D$ )	EN 13164	W/mK	0,034		
Thickness 60mm			0,035		
Thickness from 80mm to 100mm			0,036		
Thickness 120mm			0,037		
Thickness 140mm					
<b>Declared Thermal Resistance (Norm EN 13164)</b>					
Thickness (mm):	60	80	100	120	140
Thermal Resistance (m <sup>2</sup> K/W):	1,75	2,25	2,85	3,30	3,75
<b>COMPRESSIVE STRESS OR COMPRESSIVE STRENGTH AT 10% DEFORMATION</b>					
Compressive strength at 10% deformation	EN 826	kPa	≥ 250		
<b>DIMENSIONAL STABILITY UNDER SPECIFIED TEMPERATURE AND HUMIDITY CONDITIONS</b>					
Relative change in thickness, length and width with specified temperature (70 °C) and humidity conditions (90% H.R.)	EN 1604	%	< 0,5		
<b>LONG TERM WATER ABSORPTION BY IMMERSION</b>					
Long term water absorption by immersion (28 days)	EN 12087	Vol. %	≤ 0,7		
<b>LONG TERM WATER ABSORPTION BY DIFFUSION</b>					
Thickness from 60mm to 140mm	EN 12088		≤ 3		
<b>WATER VAPOUR DIFFUSION RESISTANCE FACTOR (<math>\mu</math>)</b>					
Water vapour diffusion resistance factor ( $\mu$ -MU)	EN 12086		100		
<b>REACTION TO FIRE</b>					
Reaction to fire	EN 13501-1	Euroclass	E		