


# X-FOAM<sup>®</sup> HBT 500

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

CARACTERISTICS	STANDARD	UNIT	VALUES
<b>SIZE</b>			
Thickness	EN 823	mm	50 - 300
Thickness tolerance class (T1)	EN 823 EN 13164	mm	Thickness from 50 to 120 mm
			Thickness > 120 mm
Length	EN 822	mm	1250
Width	EN 822	mm	600
<b>TYPE FINISH</b>			
L - edges 	Panel with skin surface		
<b>THERMAL CONDUCTIVITY AND THERMAL RESISTANCE</b>			
Declared thermal conductivity	EN 13164 EN 12667	W/mK	Thickness from 50 mm to 60 mm
			Thickness from 80 mm to 120 mm
			Thickness from 140 mm to 180 mm
			Thickness from 200 mm to 220 mm
			Thickness from 240 mm to 300 mm
Thermal resistance (EN 13164)	Thickness (mm): 50 60 80 100 120 140 160 180 200 220 240 260 280 300		
Thermal resistance (m <sup>2</sup> K/W):	1,45 1,75 2,20 2,75 3,30 4,10 4,70 5,25 5,70 6,20 6,65 7,30 7,75 8,30		
<b>COMPRESSIVE STRESS AT 10% DEFORMATION - <math>\sigma_{10}</math></b>			
Thickness from 50 mm to 300 mm	EN 826	kPa	≥ 500
<b>COMPRESSIVE STRESS AT 2% DEFORMATION AFTER 50 YEARS</b>			
Thickness from 50 mm to 300 mm	EN 1606	kPa	220
<b>DIMENSIONAL STABILITY AT SPECIFIED TEMPERATURE AND HUMIDITY CONDITIONS</b>			
Condition test: (48±1) hours, (70±2)°C and (90± 5)% U.R.	EN 1604	%	≤ 5
Changes in thickness, length and width			
<b>DEFORMATION BEHAVIOR</b>			
Test condition: 70°C, 168 hours, 40 kPa	EN 1605	%	≤ 5
<b>LONG TERM WATER ABSORBTION BY TOTAL IMMERSION (28 DAYS)</b>			
Thickness from 50 mm to 300 mm	EN 12087	Vol. %	≤ 0,7
<b>WATER ABSORBTION BY DIFFUSION (28 DAYS)</b>			
Thickness 50 mm	EN 12088	Vol. %	≤ 5
Thickness from 60 mm to 300 mm			≤ 3
<b>WATER VAPOUR DIFFUSION RESISTANCE FACTOR (<math>\mu</math>)</b>			
Thickness from 50 mm to 300 mm	EN 12086		100
<b>FREEZE - THAW RESISTANCE</b>			
Thickness from 50 mm to 300 mm	EN 12091	Vol. %	≤ 1
<b>REACTION TO FIRE</b>			
Reaction to fire	EN 13501-1	Euroclass	E
<b>TEMPERATURE LIMIT USE</b>			
Temperature limit use		°C	+ 75

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