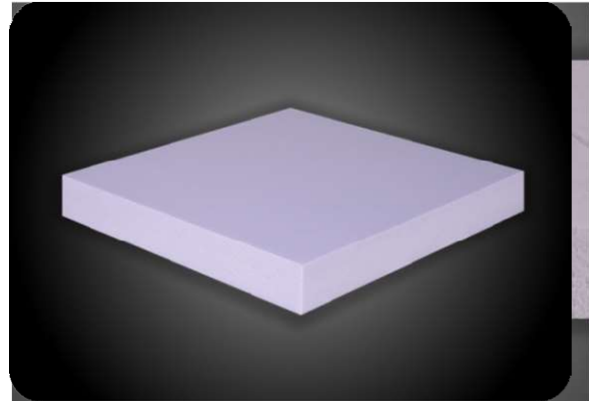




# X- FOAM TRC

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



**X-FOAM® TRC** is a thermal insulation sheet made of indigo-coloured single-layer extruded polystyrene, without extrusion skin, with a longitudinally grooved surface and 4 straight edges. The sheets declare compressive strength values from 200 kPa to 300 kPa depending on the thickness. They have a width of 600 mm, length 3000 mm and thicknesses available from 20 to 100 mm **X-FOAM® TRC** is fire classified EUROCLASS E according to the European standard EN 13501-1. **X-FOAM® TRC** complies with the Minimum Environmental Criteria (CAM).

**APPLICATION WITH X-FOAM® TRC:** sandwich panels, isothermal vans



CHARACTERISTIC	STANDARD	UNIT	VALUES	
Thicknesses	EN 823	mm	20 - 100	
Thickness tolerances Th from 20 mm to 100 mm	EN 823 EN 13164	mm	T2 -1,5/+1,5	
Length	EN 822	mm	3000	
Width	EN 822	mm	600	
Length (l) and width (b) tolerances	EN 822 EN 13164	mm	l o b ≤ 1500: +/- 8 l o b > 1500: +/- 10	
Orthogonality tolerance (Sb)	EN 822 EN 13164	mm/m	5	
Flatness tolerance (Smax)	EN 822 EN 13164	mm/m	6	
Density		kg/m <sup>3</sup>	31 +/- 10%	
Specific heat		J/kgK	1450	
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	
CHARACTERISTIC	STANDARD	UNIT	VALUES	
Thermal conductivity (λ <sub>D</sub> ) and Thermal resistance (R <sub>D</sub> )			λ <sub>D</sub>	R <sub>D</sub>
Thickness 20 mm	EN 13164 EN 12667	λ <sub>D</sub> : W/mK R <sub>D</sub> : m <sup>2</sup> K/W	0,032	0,63

Thickness 30 mm	EN 13164 EN 12667	$\lambda_D$ : W/mK $R_D$ : m <sup>2</sup> K/W	0,032	0,94
Thickness 40 mm	EN 13164 EN 12667	$\lambda_D$ : W/mK $R_D$ : m <sup>2</sup> K/W	0,033	1,21
Thickness 50 mm	EN 13164 EN 12667	$\lambda_D$ : W/mK $R_D$ : m <sup>2</sup> K/W	0,033	1,52
Thickness 60 mm	EN 13164 EN 12667	$\lambda_D$ : W/mK $R_D$ : m <sup>2</sup> K/W	0,033	1,82
Thickness 80 mm	EN 13164 EN 12667	$\lambda_D$ : W/mK $R_D$ : m <sup>2</sup> K/W	0,034	2,35
Thickness 100 mm	EN 13164 EN 12667	$\lambda_D$ : W/mK $R_D$ : m <sup>2</sup> K/W	0,034	2,94
<b>Compressive stress at 10 % deformation</b> Thickness 20 mm - 40 mm Thickness 50 mm - 60 mmmm Thickness 60 mm - 100 mmmm	EN 826	kPa	$\geq 200$ – CS(10/Y)200 $\geq 250$ – CS(10/Y)250 $\geq 300$ – CS(10/Y)300	
<b>Adherence to concrete</b>	EN 1607	kPa	$\geq 300$	
<b>Water absorption by immersion (28 days)</b>	EN 12087	kPa	$\leq 0,7$ – WL(T)0,7	
<b>Water absorption by diffusion (28 days)</b>	EN 12088	%	$\leq 3\%$ – WD(V)3 sp.< 60 $\leq 2\%$ – WD(V)2 sp. 60 $\leq 1\%$ – WD(V)1 sp.> 60	
<b>Resistance to water vapor diffusion (<math>\mu</math>)</b>	EN 12086:2013		MU 80	
<b>Frost behavior (freeze - thaw alternation) after water absorption by long-term diffusion</b>	EN 12091:2013	Vol %	$\leq 1$ – FTCD1	
<b>Reaction to fire</b>	EN 13501-1	Euroclasse	E	
<b>Limit temperature of use</b>		°C	75	
<b>Closed cell average</b>		%	> 96	
<b>VOC (Volatile Organic Compounds)</b>	EN 16516 / ISO 16000	Class/Protocol	A+, Leed, Well, Breeam	

X-FOAM TRC 04/2026 – 01.26

