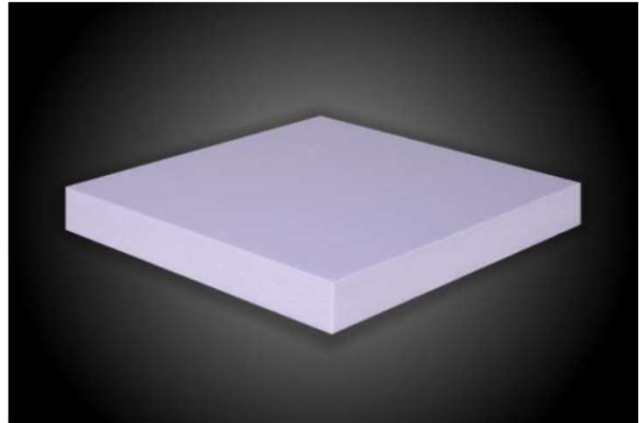




# COREVO HP

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



**COREVO HP** is a thermal insulation sheet consisting of indigo-coloured extruded polystyrene with extrusion skins and 4 straight edges. The sheets declare compressive strength values  $\geq 300$  kPa, have a width from 1200 mm to 1250 mm, length from 2000 mm to 3000 mm and thicknesses available from 30 to 100 mm. **COREVO HP** is rated to fire EUROCLASS E according to European Standard EN 13501-1. **COREVO HP** complies with the Minimum Environmental Criteria (CAM).

**APPLICATIONS WITH COREVO HP:** inverted roof, pitched roof, residential floor with or without heating system



CHARACTERISTIC	STANDARD	UNIT	VALUES
Thickness	EN 823	mm	30 - 100
Thickness tolerances Thickness from 6 mm to 100 mm	EN 823 EN 13164	mm	+/-2 -2/+3
Length	EN 822 / ISO 29465	mm	2000 - 3000
Width	EN 822 / ISO 29465	mm	1200 - 1250
Length (l) and width (b) tolerances	EN 13164	mm	l o b $\leq$ 1500: +/- 10 l o b > 1500: +/- 5
Orthogonality tolerance (Sb)	EN 824/EN 13164	mm/m	2
Flatness tolerance (Smax)	EN 825/EN 13164	mm/m	3
Straightness tolerance on the long edge		mm/m	1
Density		kg/m <sup>3</sup>	32 +/- 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	
<b>Thermal conductivity (<math>\lambda_D</math>) and Thermal resistance (<math>R_D</math>)</b>			$\lambda_D$	$R_D$
Thickness 30 mm	EN 13164	$\lambda_D$ : W/mK RD: m2K/W	0,031	0,95
Thickness 40 mm	EN 13164	$\lambda_D$ : W/mK RD: m2K/W	0,032	1,25
Thickness 50 mm	EN 13164	$\lambda_D$ : W/mK RD: m2K/W	0,033	1,50
Thickness 60 mm	EN 13164	$\lambda_D$ : W/mK RD: m2K/W	0,033	1,80
Thickness 70 mm	EN 13164	$\lambda_D$ : W/mK RD: m2K/W	0,032	2,20
Thickness 80 mm	EN 13164	$\lambda_D$ : W/mK RD: m2K/W	0,033	2,40
Thickness 100 mm	EN 13164	$\lambda_D$ : W/mK RD: m2K/W	0,032	3,15
<b>Compressive stress at 10 % deformation</b>	EN 29469:2022	kPa	$\geq 300 - CS(10/Y)300$	
<b>Dimensional stability at 70°C and 90% RH Changes in thickness, length and width</b>	EN 1604	%	$\leq 5 - DS(70,90)$	
<b>Deformation behavior. Condition test 70° C, 168 h, 40 kPa</b>	EN 1605	%	$\leq 5 - DLT(2)5$	
<b>Water absorption by immersion (28 days)</b>	EN 16535:2019	Vol %	$\leq 0,7 - WL(T)0,7$	
<b>Water absorption by diffusion (28 days)</b>	EN 16536:2019	Vol %	$\leq 5\% - WD(V)5$ sp. < 60 $\leq 3\% - WD(V)3$ sp. $\geq 60$	
<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 %		
Thickness <60 mm Thickness $\geq 60$ mm			$\leq 2 - FTCD1$ $\leq 1 - FTCD2$	
<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	

COREVO HP 01/08/2024 – 01.24

