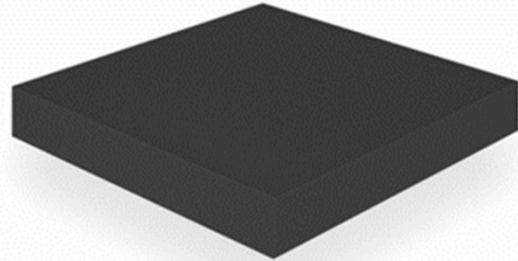




# COREVO K

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



**COREVO K** is a black extruded expanded polystyrene thermal insulation sheet, without extrusion skin, without CFC or HCFC and with 4 straight edges. The sheets declare compressive strength values from 250 kPa. They have a width from 900 mm to 1025 mm, length 3,055 mm and thicknesses available from 6 mm to 65 mm. **COREVO K** it is fire classified EUROCLASS E according to the European standard EN 13501-1. **COREVO K** complies with the Minimum Environmental Criteria (CAM).

**APPLICATIONS WITH COREVO K:** Sandwich panels, isothermal vans, graphic applications, insulation of civil and industrial doors, are integrated into systems for the finished construction of French door spaces, insulation of thermal bridge



CHARACTERISTIC	STANDARD	UNIT	VALUES
Thickness	EN 823	mm	6 - 65
Thickness tolerances Thickness from 6 mm to 100 mm	EN 823 EN 13164	mm	± 0,5
Length	EN 822 / ISO 29465	mm	3055
Width	EN 822 / ISO 29465	mm	900 - 1025
Length (l) and width (b) tolerances	EN 13164	mm	l o b ≤ 1500: +/- 8 l o b > 1500: +/- 10
Orthogonality tolerance (Sb)	EN 824/EN 13164	mm/m	1,5
Flatness tolerance (Smax)	EN 825/EN 13164	mm/m	2
Straightness tolerance on the long edge		mm/m	1,5
Density		kg/m <sup>3</sup>	33 +/- 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>			$\lambda_D$	$R_D$
Thicknesses 6 ÷ 99 mm	EN 13164	$\lambda_D$ : W/mK RD: m2K/W	0,033	
Thickness 65 mm	EN 13164	$\lambda_D$ : W/mK RD: m2K/W	0,033	1,95
<b>Compressive stress at 10 % deformation</b>				
Thickness 6 ÷ 99 mm Thickness 65 mm Thickness 100 mm	EN 29469:2022	kPa	$\geq 250 - CS(10/Y)250$	
<b>Compressive elastic modulus</b>	EN 29469:2022	kPa	10 000	
<b>Tensile elastic modulus</b>	EN 12086:2013	kPa	5 000	
<b>Shear resistance</b>	EN 12086:2013	kPa	$\geq 260$	
<b>Shear modulus</b>	EN 12086:2013	kPa	2 700	
<b>Traction perpendicular to the faces</b>	EN 12086:2013	kPa	$\geq 200 - TR200$	
<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 %	$\leq 3\% - WD(V)3 \text{ sp.} < 60$ $\leq 2\% - WD(V)2 \text{ sp.} 60$ $\leq 1\% - WD(V)1 \text{ sp.} > 60$	
<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>				
Thickness <60 mm Thickness $\geq 60$ mm	EN 12091:2013	Vol %	$\leq 2 - FTCD1$ $\leq 1 - FTCD2$	
<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 K 01/08/2024 - 01.24

