RAVATHERM™ XPS X 700 SL

Technical data sheet

Thermal resistance R_D Thickness(mm)	40	50	60	80	100	120				
R_d m^2.K/W	1.30	1.60	1.95	2.60	3.20	3.85				

Properties	Value		Unit	Standard	CE Code
Density (typical)	42		kg/m^3	EN 1602	
Thermal Conductivity Declared (λ_D)	0.031		W/m.K	EN 13164	λ_D
Compressive stress or compressive strength@ 10% deformation	700		kPa	EN 826	CS(10\Y)
Modulus (typical values)	25	< 50 mm	MPa	EN 826	
	30	≥ 50 mm	MPa	EN 828	
Compressive Creep max after 50 years < 2% deformation under stress σC	250		kPa	EN 1606	CC(2/1.5/50)σ
Long term E-Modulus E_{50}	13500		kPa		
Water vapour diffusion resistance factor μ (minimum)	150		-	EN 12086	MU
Long term water absorption by total immersion	0.7		%	EN 12087	WL(T)
Water pick-up by diffusion	3	< 50 mm	%	EN 12088	WD(V)
	2	50 - 79.9 mm	%		
	1	≥ 80mm	%		
Water pick up after Freeze Thaw	1		%	EN 12091	FTCD
Dimensional stability under specified temperature (70°C) and humidity conditions (90%rh)	< 5		%	EN 1604	DS(70,90)
Dimensional stability under specified compressive load (40kPa) and temperature (70°C) conditions	< 5			EN 1605	DLT(2)5
Coefficient of linear thermal expansion (typical value)	0.07		mm/(m.K)	-	
Fire performance	E		Euroclass	EN 13501-1	
Temperature limits	-50/+75		°C	-	
Tolerances Thickness	-2/+2	< 50 mm	mm	EN 823	T1
Thickness	-2/+3	50 - 120 mm	mm	EN 823	
Width	-3/+3		mm	EN 822	
Length	-6/+6		mm	EN 822	
Dimensions Thickness	40 - 120		mm	EN 823	
Width	600		mm	EN 822	
Length	1250		mm	EN 822	
Egde profile	Ship Lap				
Surface finish	Skin				

CE CODE

< 50mm	**XPS - EN13164 - T1 - CS(10\Y)700 - CC(2/1.5/50)250 - DS(70,90) - DLT(2)5 - WD(V)3 - WL(T)0,7 - FTCD1**
≥ 50 - < 80mm	**XPS - EN13164 - T1 - CS(10\Y)700 - CC(2/1.5/50)250 - DS(70,90) - DLT(2)5 - WD(V)2 - WL(T)0,7 - FTCD1**
≥ 80mm	**XPS - EN13164 - T1 - CS(10\Y)700 - CC(2/1.5/50)250 - DS(70,90) - DLT(2)5 - WD(V)1 - WL(T)0,7 - FTCD1**

CE

The quality of RAVATHERM XPS products is assured in accordance with EN 13164 and EN 13172 standards. These standards establish the type and frequency of measurements executed both by independent and recognized institutions, as well as by RAVAGO laboratories.