RAVATHERM™ XPS X 500 SL

Technical data sheet

Properties		Value		Unit	Standard	Designation Code
Thermal Conductivity Declared (λ_D)		0.031		W/m.K	BS EN 13164: 2012+A1:2015	λ_D
Compressive stress or compressive strength@ 10% deformation		500		kPa	BS EN 826:2013	CS(10\Y)
Modulus (typical values)		20 25	< 50mm ≥ 50mm	MPa MPa	BS EN 826:2013 BS EN 826:2013	
Compressive Creep max after 50 years < 2% deformation under stress σC		180		kPa	BS EN 1606:2013	CC(2/1.5/50)σ
Water vapour diffusion resistance factor μ (minimum)		150		-	BS EN 12086:2013	MU
Long term water absorption by total immersion		0.7		%	BS EN 12087:2013	WL(T)
Water pick-up by diffusion		2 1	< 80mm ≥ 80mm	% %	BS EN 12088:2013	WD(V)
Water pick up after Freeze Thaw		1		%	BS EN 12091:2013	FTCD
Dimensional stability under specified temperature (70°C) and humidity conditions (90%rh)		< 5		%	BS EN 1604:2013	DS(70,90)
Dimensional stability under specified compressive load (40kPa) and temperature (70°C) conditions		< 5		%	BS EN 1605:2013	DLT(2)5
Coefficient of linear thermal expansion (typical value)		0.07		mm/(m.K)	-	-
Reaction to fire classification		E		Euroclass	BS EN 13501-1:2018	
Temperature limits		-50/+75		°C	-	
Tolerances	(Thickness)	1		Class	BS EN 823:2013	T1
Dimensions	Thickness Width Length	50 - 120 600 1250		mm mm mm	BS EN 823:2013 BS EN 822:2013 BS EN 822:2013	
Edge Profile		Ship lap				
Surface finish		Skin				

Thermal resistance[1]			
Thickness(mm)	50	75	100
R_d: m^2.K/W	1.60	2.40	3.20

CE CODE

< 80mm XPS - EN13164 - T1 - CS(10\Y)500 - CC(2/1.5/50)180 - DS(70,90) - DLT(2)5 - WD(V)2 - WL(T)0,7 - FTCD1

≥ 80mm XPS - EN13164 - T1 - CS(10\Y)500 - CC(2/1.5/50)180 - DS(70,90) - DLT(2)5 - WD(V)1 - WL(T)0,7 - FTCD1

1) Thickness dependent

1 N/mm² = 10³ kPa = 1MPa

Material shall be stored inside in original packaging, away from direct sun light or heat sources