RAVATHERM™ XPS X FUSION 300 SB

Technical data sheet

Properties	Value		Unit	Standard	Designation Code
Thermal Conductivity Declared (λ_D)	0.030		W/m.K	BS EN 13164: 2012+A1:2015	λ_D
Compressive stress or compressive strength@ 10% deformation	300		kPa	BS EN 826:2013	CS(10\Y)
Modulus (typical values)	15 20	< 50 mm ≥ 50 mm	MPa MPa	EN 826:2013 EN 826:2013	
Tensile Strength	200	≥ 125 mm	kPa	BS EN 1607:2013	TR
Compressive Creep max after 50 years < 2% deformation under stress σC	130		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)
Long term water absorption by diffusion	3 2 1	< 50 mm 50 - 79 mm ≥ 80 mm	%	BS EN 12088:2013	WD(V)
Additional water absorption after Freeze Thaw	1		%	EN 12091:2013	FTCD
Dimensional stability under specified temperature (70°C) and humidity conditions (90%rh)	< 5		%	EN 1604:2013	DS(70,90)
Dimensional stability under specified compressive load (40kPa) and temperature (70°C) conditions	< 5		%	EN 1605:2013	DLT(2)5
Coefficient of linear thermal expansion (typical value)	0.07		mm/(m.K)	-	
Reaction to fire classification	E		Euroclass	EN 13501-1:2018	
Temperature limits	-50/+75		°C	-	
Tolerances Thickness Thickness Width length	-2/+2 -2/+3 -3/+3 -6/+6	< 50 mm 50 - 200 mm	mm mm mm mm	EN 823:2013 EN 823:2013 EN 822:2013 EN 822:2013	T1
Dimensions Thickness Width Length	30 - 200 600 2500		mm mm mm	EN 823:2013 EN 822:2013 EN 822:2013	
Edge Profile	Butt Edge				
Surface finish	Skin				

Thermal resistance[1]									
Thickness(mm)	30	40	50	60	75	100	125	150	200
R_d m².K/W	1.00	1.30	1.65	2.00	2.50	3.30	4.15	5.00	6.65

DESIGNATION CODE: XPS-EN 13164-T1-CS(10\Y)300-CC(2/1.5/50)130-DS(70,90)-DLT(2)5-WL(T)0.7- WD(V)1,2,3(1)-FTCD1 -TR200

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

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