

# RAVATHERM™ XPS X FUSION 300 SB



## Technical data sheet

Properties	Value		Unit	Standard	Designation Code				
Thermal Conductivity Declared ( $\lambda_D$ )	0.030		W/m.K	BS EN 13164:2012+A1:2015	$\lambda_D$				
Compressive stress or compressive strength@ 10% deformation	300		kPa	BS EN 826:2013	CS(10\Y)				
Modulus (typical values)	15	< 50 mm	MPa	EN 826:2013					
	20	$\geq$ 50 mm	MPa						
Tensile Strength	200		kPa	BS EN 1607:2013	TR				
Compressive Creep max after 50 years < 2% deformation under stress $\sigma_C$	130		kPa	BS EN 1606:2013	CC(2/1.5/50) $\sigma$				
Water vapour diffusion resistance factor $\mu$ (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	< 50 mm	%	BS EN 12088:2013	WD(V)				
	2	50 - 79 mm							
	1	$\geq$ 80 mm							
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	-2/+2	< 50 mm 50 - 200 mm	mm	EN 823:2013 EN 823:2013 EN 822:2013 EN 822:2013				
	Thickness	-2/+3		mm					
	Width	-3/+3		mm					
	length	-6/+6		mm					
Dimensions	Thickness	30 - 200	mm	EN 823:2013	T1				
	Width	600	mm	EN 822:2013					
	Length	2500	mm	EN 822:2013					
Edge Profile	Butt Edge								
Surface finish	Skin								
<b>Thermal resistance<sup>1</sup></b>									
Thickness(mm)	30	40	50	60	75	100	125	150	200
R <sub>d</sub> m <sup>2</sup> .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/mm<sup>2</sup> = 10<sup>3</sup> kPa = 1MPa

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

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