

# RAVATHERM™ XPS X 500 SL



## Technical data sheet

Properties	Value	Unit	Standard	CE Code	
Thermal Conductivity Declared	0.031	< 60mm	W/m.K	EN 13164	$\lambda_D$
	0.032	≥ 60mm	W/m.K		
Compressive stress or compressive strength@ 10% deformation	500		kPa	EN 826	CS(10\Y)
Compressive Creep max after 50 years < 2% deformation under stress $\sigma_C$	180		kPa	EN 1606	CC(2/1.5/50) $\sigma$
Water vapour diffusion resistance factor $\mu$ (tabulated value)	100		-	EN 12086	MU
Long term water absorption by total immersion	< 0.7		%	EN 12087	WL(T)
Water pick-up by diffusion	< 2	50 < 80mm	%	EN 12088	WD(V)
	< 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)
Deformation 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	-	
Thickness tolerances	1		Class	EN 823	T
Dimensions	Width	600	mm	EN 822	
	Length	1250	mm	EN 822	
Edge Profile	Ship lap				
Surface finish	Skin				
<b>Thermal resistance<sup>1</sup></b>					
Thickness(mm)	50	75	100		
$R_D$ m <sup>2</sup> .K/W	1.60	2.40	3.10		
DESIGNATION CODE: XPS-EN 13164-T1-CS(10\Y)500-CC(2/1.5/50)180-DS(70,90)-WL(T)0.7- WD(V)1,2,3 <sup>(1)</sup> -FTCD1					

1) Thickness dependant  
 $1 \text{ N/mm}^2 = 10^3 \text{ kPa} = 1 \text{ MPa}$

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

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