

RAVATHERM™ XPS X PLUS HD300



Technical data sheet

Properties	Value	Unit	Standard	CE Code	
Density (typical value)	45	kg/m ³	EN 1602		
Thermal Conductivity Declared	0.029	W/m.K	EN 13164	λ _b	
Thermal Conductivity 60 days - mean value at 10°C	0.025	> 50mm	EN 12667 EN 12939	λ-mean, 60d	
Compressive stress or compressive strength @ 10% deformation	700	kPa	EN 826	CS(10\Y)	
Tensile Strength ⁽¹⁾	1200	kPa	EN 1607	TR	
Shear Strength	500	kPa	EN12090	SS	
Compressive Creep max after 50 years < 2% deformation under stress 6C	210	kPa	EN 1606	CC(2/1.5/50)6	
Moduli (typical values)	E-Modulus ⁽¹⁾	33	30 < ≤ 80 mm	MPa	EN 826
		38	> 80 mm	MPa	EN 826
	Tensile Modulus ⁽¹⁾	31	≥ 50 mm	MPa	EN 1607
	Shear Modulus G	14 ⁽²⁾		MPa	EN 12090
Water vapour diffusion resistance factor μ (tabulated value)	150	-	EN 12086	MU	
Long term water absorption by total immersion	0.7	%	EN 12087	WL(T)	
Dimensional stability under specified temperature (70°C) and humidity conditions (90%rh)	5	%	EN 1604	DS(70,90)	
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	-0.5/+0.5	mm	EN 823	T
	Width	-0/+3	mm	EN 822	
	Length	-0/+10	mm	EN 822	
Dimensions	Thickness	100	mm	EN 823	
	Width	600	mm	EN 822	
	Length	2500	mm	EN 822	
Edge Profile	Butt Edge				
Surface finish	Planned and grooved				

DESIGNATION CODE: XPS-EN 13164-T3-CS(10\Y)400-CC(2/1.5/50)140-DS(70,90)-WL(T)1.5-TR900-SS400

1) Measured in thickness direction

2) Typical value for Shear Modulus, may vary with the inplane direction.

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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