

RAVATHERM™ XPS X PLUS RTM (GV)

Polystyrene extruded foam for the core insulation of refrigerated vehicles and trucks with very high compressive strength



- Panels with butt edges, planed and grooved
- Versatile use
- Core material for motorhomes, refrigerated vehicles and trucks
- Tested and certified by the FIW Institute Munich



Note: The recommendations regarding application methods and use of the products are based on the experience and knowledge of the properties of RAVATHERM™ insulation boards acquired by Ravago and are made to the best of our knowledge and belief. However, no liability, warranty, or guarantee is assumed for systems or applications. No exemption from patent claims can be derived from this. This document does not constitute a sales specification. The information in this brochure does not constitute a guarantee of properties in a legal sense and is not part of the content of a purchase agreement. Ravago's obligations and liability regarding the sale of RAVATHERM™ products are determined exclusively by the underlying purchase agreement. <https://www.ravagobuildingsolutions.com/industry>

RAVATHERM™ XPS X PLUS RTM (GV)

Properties	Value		Unit	Norm	CE Code	
Density (typical value)	40		kg/m ³	EN 1602		
Thermal Conductivity Declared (λ_D)	0.029		W/m.K	EN 13164	λ_D	
Thermal Conductivity for 60 days old foam – mean value at 10°C	0.025 0.027	> 50mm ≤ 50mm	W/m.K	EN 12667 EN 12939	λ -mean, 60d	
Compressive stress or compressive strength @ 10% deformation ¹	400		kPa	EN 826	CS(10\Y)	
Tensile Strength ¹	900		kPa	EN 1607	TR	
Shear Strength ²	400		kPa	EN 12090	SS	
Moduli (typical)	E-Moduli ¹	< 30 mm	MPa	EN 826		
		30–79 mm	MPa	EN 826		
		≥ 80 mm	MPa	EN 826		
	Tensile Modulus ¹	28		MPa	EN 1607	
	Shear Modulus ²	10	≥ 50 mm	MPa	EN 12090	
Compressive Creep max after 50 years < 2% deformation under stress σ_C	140		kPa	EN 1606	CC(2/1.5/50) σ	
Water vapour diffusion resistance factor μ (tabulated value)	150		–	EN 12086	MU	
Long term water absorption by total immersion	1.5		%	EN 12087	WL(T)	
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	–		
Tolerances	Thickness	-0.5/+0.5		mm	EN 823	T3
	Width	0.0/+3.0	< 700 mm	mm	EN 822	
	Width	0.0/+5.0	≥ 700 mm	mm	EN 822	
	Length	0.0/+10.0		mm	EN 822	
Dimensions	Thickness	20-140		mm	EN 823	
	Width	600-1250		mm	EN 822	
	Length	2000-3500		mm	EN 822	
Edge Profile	Butt Edge					
Surface finish	GV	Planed and grooved				

CE-code: **XPS - EN 13164 - T3 - CS(10\Y)400 - CC(2/1.5/50)140 - DS(70,90)-DLT(2)5 - WL(T)1.5 - TR900**

1 Measured in thickness direction

1 N/mm² = 10³ kPa = 1MPa

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

! The material must be stored in the original packaging and must not be exposed to direct sunlight or heat sources !