

RAVATHERM™ XPS X PLUS HD300 GV

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



- XPS Panels with butt edges, planed and grooved
- Versatile use
- 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 HD300 GV

Properties	Value	Unit	Norm	CE Code	
Density (typical value)	50	kg/m ³	EN 1602		
Thermal Conductivity Declared (λ_D)	0.029	W/m.K	EN 13164	λ_D	
Conductivité thermique pour mousse de 60 jours – valeur moyenne à 10°C	0.025 0.027	> 50mm ≤ 50mm	EN 12667 EN12939	λ -mean, 60d	
Compressive stress or compressive strength @ 10% deformation ¹	700	kPa	EN 826	CS(10\Y)	
Tensile Strength ¹	1200	kPa	EN 1607	TR	
Shear Strength ²	500	kPa	EN 12090	SS	
Moduli (typical)	E-Moduli ¹	35 38	< 80 mm ≥ 80 mm	MPa	EN 826
	Tensile Modulus ¹	31	≥ 50mm	MPa	EN 1607
	Shear Modulus ²	14		MPa	EN 12090
Compressive Creep max after 50 years < 2% deformation under stress σ_C	210	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	0.7	%	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	EN13501-1		
Temperature limits	-50/+75	°C	–		
Tolerances	Thickness	-0.5/+0.5	mm	EN 823	T3
	Width	0.0/+3.0	mm	EN 822	
	Length	0.0/+10.0	mm	EN 822	
Dimensions	Thickness	40-120	mm	EN 823	
	Width	600	mm	EN 822	
	Length	2500-3000	mm	EN 822	
Edge Profile	Butt Edge				
Surface finish	Planed				
	GV	Planed and grooved			

CE-code: **XPS - EN 13164 - T3 - CS(10\Y)700 - CC(2/1.5/50)210 - DS(70,90) - DLT(2)5 - WL(T)0.7 - TR1200 - SS500**

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 !