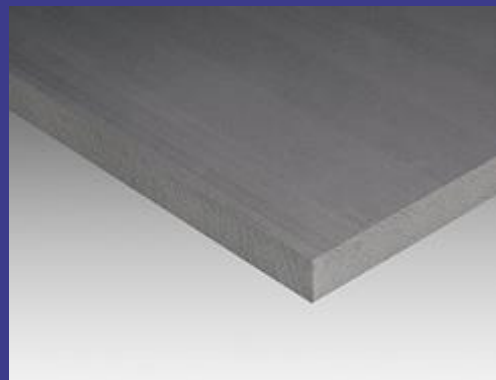


# RAVATHERM™ XPS X PLUS LB (GV)

Polystyrene extruded foam for the insulation of caravans and mobile homes with high compressive strength



- Panels with butt edges, planed
- Versatile use
- Core layer material for caravans and mobile homes
- 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. Ravagos'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 LB (GV)

Properties	Value		Unit	Norm	CE Code		
Density (typical value)	35		kg/m <sup>3</sup>	EN 1602			
Thermal Conductivity Declared ( $\lambda_D$ )	0.029 0.030	$\leq 100\text{mm}$ $\geq 100\text{mm}$	W/m.K	EN 13164	$\lambda_D$		
Thermal Conductivity for 60 days old foam – mean value at 10°C	0.027	$> 40\text{ mm}$	W/m.K	EN 12667 EN 12939	$\lambda\text{-mean,60d}$		
Compressive stress or compressive strength @ 10% deformation <sup>1</sup>	300		kPa	EN 826	CS(10\Y)		
Tensile Strength <sup>1</sup>	600		kPa	EN 1607	TR		
Shear Modulus <sup>2</sup>	250		kPa	EN 12090	SS		
Moduli (typical)	E-Moduli <sup>1</sup>	12	$< 30\text{ mm}$	MPa	EN 826		
		15	$30 - 79\text{ mm}$	MPa	EN 826		
		20	$\geq 80\text{ mm}$	MPa	EN 826		
	Tensile Modulus <sup>1</sup>	24	$\geq 50\text{ mm}$	MPa	EN 1607		
	Shear Modulus <sup>2</sup>	8		MPa	EN 12090		
Compressive Creep max after 50 years $< 2\%$ deformation under stress $\sigma_C$	–		kPa	EN 1606	CC(2/1.5/50) $\sigma$		
Water vapour diffusion resistance factor $\mu$ (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	–			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	$< 700\text{ mm}$	mm		EN 822
		Width	0.0/+5.0	$\geq 700\text{ mm}$	mm		EN 822
		Length	0.0/+10.00		mm		EN 822
Dimensions	Thickness	20 - 160		mm	EN 823		
		Width	500 - 1250		mm	EN 822	
		Length	2000-3500		mm	EN 822	
Edge Profile	Butt edge						
Surface finish	Planed/Planed and grooved						

CE-code: **XPS - EN 13164 - T3 - CS(10\Y)300 - DS(70,90) - WL(T)1.5 - TR600 - SS250**

1 Measured in thickness direction

1 N/mm<sup>2</sup> = 10<sup>3</sup> 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 !