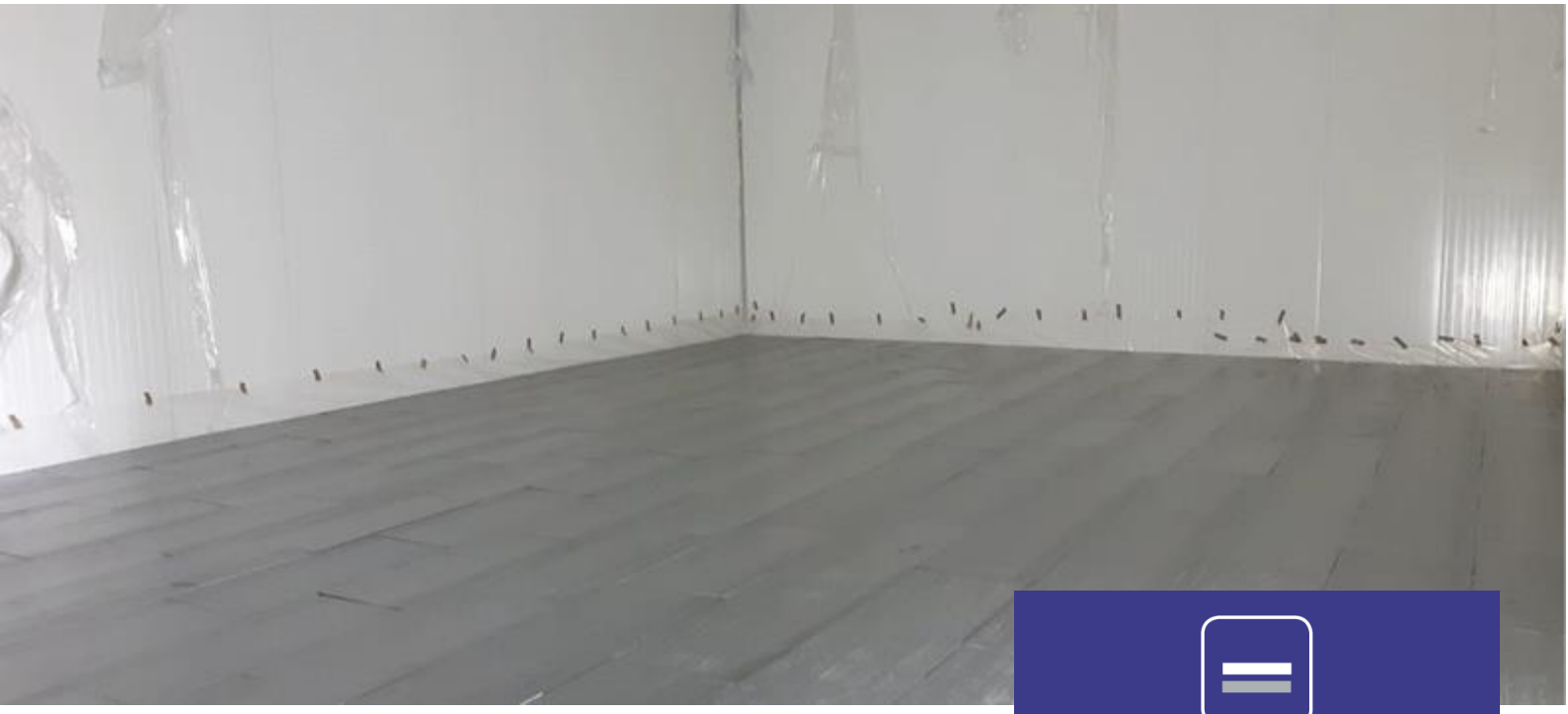
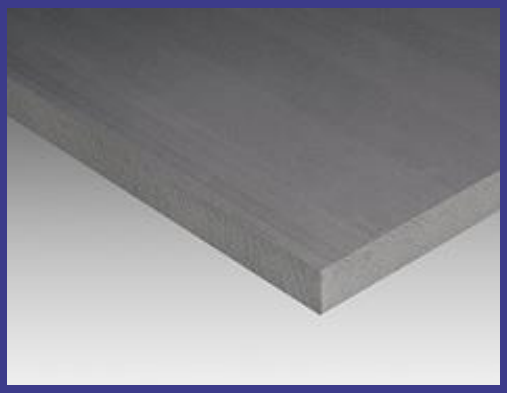
RAVATHERM™ XPS X SP

Polystyrene extruded foam for thermal insulation of cold storage rooms



- **Panels with butt edges, with skin**
- **High compressive strength**
- **The ideal insulation for cold storages**



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 SP

Properties		Value		Unit	Norm	CE Code
Density (typical value)		35		kg/m³	EN 1602	
Thermal Conductivity Declared (λ_D)		0.030		W/m.K	EN 13164	λ_D
Compressive stress or compressive strength @ 10% deformation[1]		300		kPa	EN 826	CS(10\Y)
Tensile Strength[1]		200	≥ 100mm	kPa	EN 1607	TR
E-Moduli[1]		20 25	< 50mm ≥ 50mm	MPa	EN 826	
Compressive Creep max after 50 years < 2% deformation under stress σC		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		0.7		%	EN 12087	WL(T)
Long term water absorption by diffusion		2 1	60mm 80-120mm	%	EN 12088	WD(V)
Freeze-thaw resistance		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	EN13501-1	
Temperature limits		-50/+75		°C	–	
Tolerances	Thickness	-2.0/+3.0	50-120 mm	mm	EN 823	T1
	Width	-3.0/+3.0		mm	EN 822	
	Length	-6.0/+6.0		mm	EN 822	
Dimensions	Thickness	60-120		mm	EN 823	
	Width	600		mm	EN 822	
	Length	2500		mm	EN 822	
Edge Profile		Butt edge				
Surface finish		With skin				

CE-code:

60mm	**XPS - EN 13164 T1 - CS(10\Y)300 - CC(2/1.5/50)140 - DS(70,90) - DLT(2)5 - WL(T)0,7 - WD(V)3 - FTCD1**
80mm	**XPS - EN 13164 T1 - CS(10\Y)300 - CC(2/1.5/50)140 - DS(70,90) - DLT(2)5 - WL(T)0,7 - WD(V)1 - FTCD1**
100-120mm	**XPS - EN13164 - T1 - CS(10\Y)300 - CC(2/1.5/50)140 - DS(70,90) - DLT(2)5 - WL(T)0.7 - WD(V)1 - FTCD1 - TR200**

1 Measured in thickness direction

1 N/mm² = 10³ kPa = 1MPa

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