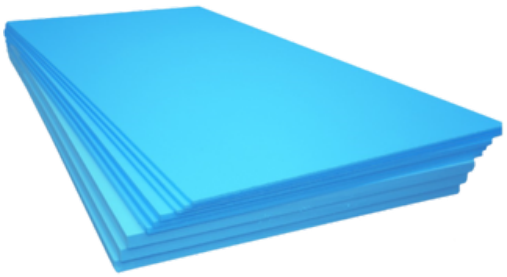
XPS-PRO FOAM PANEL DATASHEET



NovaTherm XPS Pro Foam Board is a high-performance extruded polystyrene (XPS) insulation solution engineered for a range of thermal and structural applications. With a focus on durability and efficiency, the board offers excellent compressive strength and low thermal conductivity, making it ideal for use beneath underfloor heating systems, in floors, walls, and roofing systems.
Key technical properties include a typical density in accordance with EN 1602, a declared thermal conductivity value, high compressive strength tested under EN 826, and tensile strength per EN 1607.

The board also boasts excellent shear strength and dimensional stability under long-term stress, heat, and humidity. It maintains performance between -50˚C to +75˚C and offers strong resistance to water absorption, with a vapour diffusion resistance factor (μ) rated by EN 12086. Its surface finish is planed, and the boards come in a standard width of 600 mm and thicknesses ranging from 6mm to 20mm, with lengths between 1900 mm and 2500 mm.

Properties		Value		Unit	Standard	CE Code
Density (typical value)		33		kg/m³	EN 1602	
Thermal Conductivity Declared		0.031	< 150mm	W/m.K	EN 13164	λ_D
		0.032	≥ 150mm	W/m.K		
Compressive stress or compressive strength @ 10% deformation		300		kPa	EN 826	CS(10\Y)
Tensile Strength[1]		600		kPa	EN 1607	TR
Shear Strength		250		kPa	EN12090	SS
Moduli (typical values)	E-Modulus(1)	12	<30.0 mm	MPa	EN 826	
		15	30 < ≤ 80.0 mm	MPa	EN 826	
		20	> 80.0 mm	MPa	EN 826	
	Tensile Modulus(1)	24	> 50.0 mm	MPa	EN 1607	
	Shear Modulus G	8[2]		MPa	EN 12090	
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)
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	<700.0 mm	mm	EN 822	
	Width	-0/+5	>700.0 mm	mm	EN 822	
	Length	-0/+10		mm	EN 822	
Dimensions	Thickness	50 - 165	115	mm	EN 823	
	Width	600	1220	mm	EN 822	
	Length	1900-2500	3050	mm	EN 822	
Edge Profile		Butt Edge				
Surface finish		Planed				