



# Genial<sup>s.a.r.l</sup>

## XPS Extruded Polystyrene

EXTRUDED POLYSTYRENE BOARDS WITH HIGH THERMAL INSULATION AND HIGH MECHANICAL RESISTANCE TO COMPRESSION

APPLICATION: THERMAL AND ACOUSTIC INSULATION FOR ROOFS, WALLS, UNDER FLOORS, ETC.

Property	Standard	Unit	G-XPS ND	G-XPS MD	G-XPS HD
Density Range	DIN 53420	Kg/m <sup>3</sup>	30-32	32-35	40-45
Thermal Conductivity at 10°C (50°F)	DIN 52612 FIN 52616	W/m.k	0.020	0.018	0.016
Compressive Strength at 10% deformation	DIN 53421 ASTMD 1621-25	Kpa Psi	300 43	300 43	500 70
Water Absorption by Submersion	ASTM 01622	%by Volume	< 0.2	< 0.2	< 0.2
Water Vapor Diffusion Resistance Factor	DIN 52165	μ	100-200	100-200	100-200
Heat Stability/ Compressive Creep	DIN 18164	20kp, 80°C Type 2.8 psi, 176°F	WD	WD	WD
		40 kpa 70°C Type 5.6 psi, 158°F	WS	WS	WS
Linear Coefficient of Thermal Expansion Contraction (Heat Soaking Condition)	DIN 52328	°C	70x10 <sup>-6</sup> 39x10 <sup>-6</sup>	70x10 <sup>-6</sup> 39x10 <sup>-6</sup>	70x10 <sup>-6</sup> 39x10 <sup>-6</sup>
		°F			
Irreversible Dimensional Variation Result of Laboratory Test with Temperature Changes up to 60°C (140°F)		%	0.2	0.2	0.2
Fire Classification	DIN 4102		B1/B2*	B1/B2*	B1/B2*
Flame - spread index (FSI)	ASTM E 84	Class A/1, B/2 or C/3	10 Class 1or A	10 Class 1or A	10 Class 1or A
Smoke Developed index (SDI)	ASTM E 84	Class A/1, B/2 or C/3	<450 Class 1or A	<450 Class 1or A	<450 Class 1or A

### Dimension of Genial Foam

Length(mm)	1250	Side Finishing	Straight edge (SE) Shiplap (SL)
Width(mm)	600	Surface Patterns	Plain (Glossy)(P) Embossed (E) Grooved (G)
Thickness (mm)	20 to 100		

\* Different fire classification is available

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