

Technical Performance - NAXB PS Board

NAXB PS Boards are made of high-performance waterproof extruded polystyrene sheet (XPS) as its core, reinforced on both sides with alkali fiberglass mesh embedded into a thin layer of modified polymer mortar, it is rigid, waterproof, insulating, lightweight and easy to install.

Performance of XPS Foam Component

Item	Standard	Result
Density	DIN 53420	35+1 kg/m ³
Thermal Conductivity	EN 12667:2001	0.033 Watt/m.k
Compressive Strength (10% deflection)	DIN 53421	Minimum of 0.35N/mm ²
Flexural Strength	ASTM C203	0.30 ± 0.02 MPa
Water Absorption (Capillary)	DIN 53428	Zero
Coefficient of linear expansion	N/A	70 x 10 ⁻⁶ K ⁻¹
Water Vapour Diffusion Resistivity (μ)	DIN 52615	110 - 225 μ
Water Vapour Permeability	ASTM E-96	0.028 ng/Pa.m.s
<i>EU controlled substances content</i>	<i>N/A</i>	<i>none</i>

Performance of Tile Backer Board

Item	Standard	Result
Thermal Conductivity	EN 12667:2001	0.033 Watt/m.k
Compressive Strength (10% deflection)	EN 826:1996	Minimum of 0.35N/mm ²
Bond Strength	BS EN 1384	0.4N/mm ²
Maximum Tile Loading Weight	CERAMI21107	62kg/m ²
Flexural Strength	ASTM C203	2.05 ± 0.02 MPa
Long term water absorption	EN12087	0.11kg/m ²
Water Vapour Permeability (Sd)	DIN EN 12086	3.2m
Resistance to body Impact	ETAG 003	3 x 120N/m
Bending Stiffness, E(12 mm)	EN 12089	480 KN/mm ²
Coefficient of linear expansion	N/A	30 x 10 ⁻⁶ K ⁻¹
Flammability	EN13501-1	Class E
Impact Sound Reduction	BS-ISO140-8	dLw = 21
Shear Bond Strength	EN 1448	3.32kg/cm ²
<i>EU controlled substances content</i>	<i>N/A</i>	<i>none</i>

Working temperature range: -50 to +80 C