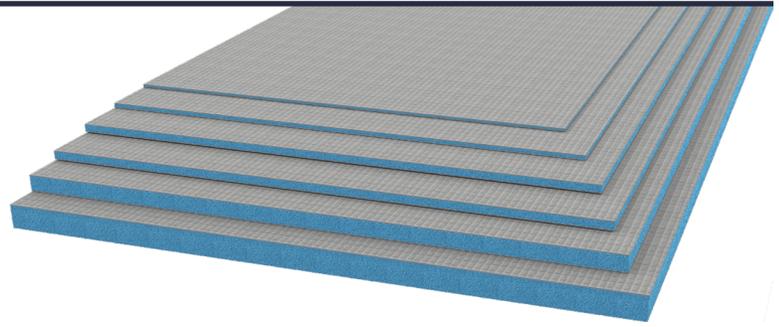


No matter the quality, cost, or extravagance of a tile installation project, the integrity of the tile is only as good as its foundation. Many substrates encountered in new buildings and renovation projects are unsuitable for tile installation, especially in areas with high moisture. This can require comprehensive preparation and waterproofing measures.



The tīLite Backer Board is a lightweight, waterproof and vapor-retardant backer board that consists of a blue extruded polystyrene rigid foam core. The rigid foam is reinforced with glass fiber mesh (with alkali-resistant finish) on both sides and coated with a polymer-modified cement.

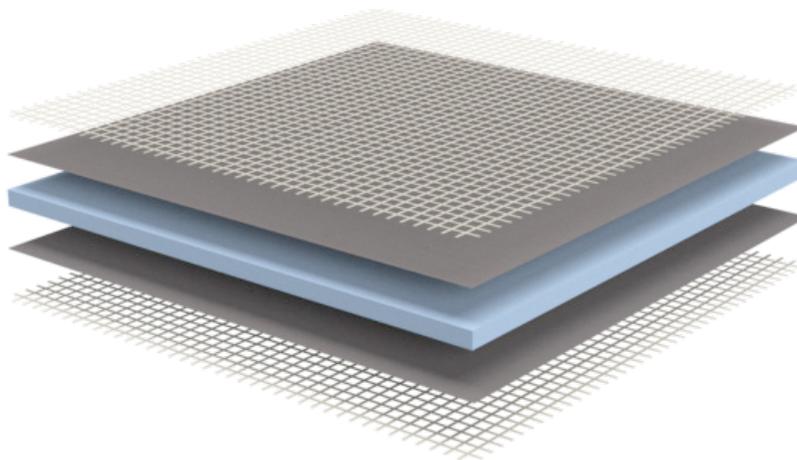
APPLICATION & FUNCTION

With its special properties, the tīLite Backer Board has a wide variety of applications, including used as a carrier element for laying tiles, slabs and natural stone floor coverings using the thin-bed method, adhesive surface for applying plaster, tile adhesive and other materials, moisture

protection, design element, composite sealing with tile and slab coverings of load class A and B (directly loaded walls and floors in rooms in which tap or cleaning water is used very frequently or for long periods, walls and floors of indoor and outdoor pools that are filled with water with the properties of drinking water)

Using tīLite Backer Board to build walls over stud framing in wet areas is an efficient alternative to using gypsum board.

While cement backer boards are moisture-resistant, they are not waterproof. Thus, additional measures must be taken to protect wall cavities from water and vapor penetration.



- alkali-resistant glass fiber mesh
- polymeric cement mortar
- XPS Foam
- polymeric cement mortar
- alkali-resistant glass fiber mesh

Properties	Standards	Values
Compressive Strength - perpendicular to surface	ASTM D1621	50.50 psi
Compressive Strength - perpendicular to cross section	ASTM D1621	386.0 psi
Tensile Strength	ASTM D1623	75.30 psi
Shear Strength	ASTM 273	53.30 psi
Flexural Strength	ASTM C203	788 psi
Nail Pull Resistance	ASTM C473-10	Wet 313,8 PSI/Dry 668 psi
Robinson Floor Test	ASTM C627	Extra heavy duty & high impact use
System Crack Resistance	ANSI A 118.12, S 5.4	No Cracks
Water Penetration	ASTM E331-09	passed
Capillarity		0
Flange-Fixture Seal		passed
Water Vapor Transmission - perm rating	ASTM E 96-05	0.494, 0.354
Freeze & Thawing Resistance	ASTM C666 - 03 (Modified), 25	No Visual Defects
Thermal Resistance R-Value (1/2")	ASTM C518	1.8 hr. ft. 2F/Btu
Surface Burning Characteristics	ASTM E 84, 12	Flame speed 0 Smoke developed 70
Flammability	NFPA 286	passed
Temperature Limits		- 50 / + 75 °C
Linear Coefficient of Thermal Expansion	ASTM D696	0.000029 (29 x10 ⁻⁶) CTE / °C
Accelerated Aging	AC 71-S.3.5.3, 25 cycles	No Blistering or Delamination