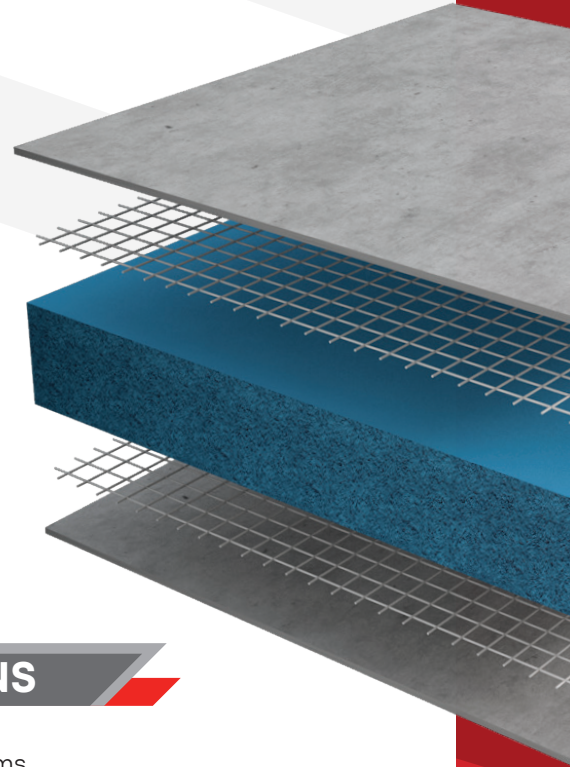




# INSUTECH

## INSUTILE® BACKER BOARD



### INSUTILE®

**INSUTILE®** is a high-performance extruded polystyrene (XPS) tile backer board designed for use in wet and dry areas. It features a rigid XPS core reinforced with fiber glass mesh coated on both sides with a specially formulated cementitious mortar, providing excellent mechanical strength, waterproofing, and thermal insulation. The reinforced surface ensures a strong and reliable bond with all standard tile adhesives, making INSUTILE® an ideal substrate for ceramic, porcelain, and natural stone tile installations in residential and commercial applications.

**Manufacturing Process:** INSUTILE® is manufactured from extruded polystyrene (XPS) and coated with a proprietary cementitious mortar. This advanced composition enhances mechanical strength, waterproofing, and thermal insulation, while providing an exceptionally strong bonding surface compatible with all tile adhesives.

### KEY FEATURES

- ◆ Water Resistance / Waterproofing
- ◆ High Mechanical Strength
- ◆ Excellent Tile Adhesion
- ◆ Dimensional Stability
- ◆ Thermal Insulation
- ◆ Lightweight & Easy Handling & Install
- ◆ Easy to Cut & Install
- ◆ Mold & Mildew Resistance
- ◆ Compatibility with Underfloor Heating
- ◆ Versatile Applications

### APPLICATIONS

- ◆ Bathrooms & Showers
- ◆ Wet Rooms & Steam Rooms
- ◆ Kitchens
- ◆ Floors & Walls
- ◆ Underfloor Heating Systems
- ◆ Countertops & Worktops
- ◆ Tiled Furniture & Features
- ◆ Renovation & Retrofit Projects
- ◆ Commercial & Residential Buildings

### STORAGE

- ◆ **Storage Conditions**

Tile backer boards should be stored in a dry, well-ventilated area, protected from direct sunlight, rain, and extreme temperatures. Boards must be kept flat on a level surface to prevent bending or deformation. Avoid stacking loads on top of the boards that could cause damage or distortion.

For best results, store boards in their original packaging until installation.
- ◆ **Handling During Storage**

Care should be taken when moving or stacking boards to avoid edge damage or surface abrasion. Do not store boards upright for extended periods, as this may lead to warping.

### INSTALLATION

- ◆ Substrate Preparation
- ◆ Board Cutting & Fitting
- ◆ Fixing Method
- ◆ Joint Treatment
- ◆ Waterproofing (Wet Areas)
- ◆ Tiling
- ◆ Finishing

INSUTILE®

## TILE BACKER BOARD DATASHEET

Thickness (mm)	Width (mm)	Length (mm)	Weight (kg/board)	U-value (w/m <sup>2</sup> k)
6	600	1200	1.9	7
10	600	1200	2.1	3.5
12.5	600	1200/2400	2.15/4.3	2.7
20	600	1200/2400	2.25/4.5	1.5
30	600	1200/2400	2.45/4.9	1
40	600	1200/2400	2.65/5.3	0.7
50	600	1200/2400	2.85/5.7	0.57
60	600	1200/2400	3.1/6.2	0.5
80	600	1200/2400	3.55/7.1	0.35
100	600	1200/2400	3.95/7.9	0.3

**Note:** Weights above based on XPS density is 30 kg/m<sup>3</sup>

## TILE BACKER BOARD TECHNICAL SPECIFICATIONS

Description	Value
Thermal conductivity	0.032 w/m <sup>2</sup> k
Compressive strength	300KN/m <sup>2</sup> at 10% deflection
Water absorption (immersion)	0.2% by vol.
Water absorption (capillary)	Negligible
Flammability	B1
Coefficient Of thermal expansion	14.5 x 10 <sup>-5</sup>