

1. Overview



XPS Tile backer boards offers extra strength and rigidity, it provides a quick and effective solution of waterproofing and insulating prosperities. It is ideal suitable for thin bed tilling on walls and floors and so on.

With XPS Tile backer board it is easy to replace the traditional bathroom with an easy access shower area that is simple to clean and features a minimalistic design. And it is easy to create a complete waterproof background for a modern and watertight wet room.

2 . Product description

XPS Tile backer board is made of XPS foam board(CFC free, blue closed cell core) in core and coated with fiberglass mesh and polymer cement motar on both sides. It makes the backer board idel base for setting tiles using the thinbed process. The XPS foam board in core is 100% waterproof and offers expectional resistance to water vapor. As proof, these panels meet the stringent standards of ASTM/ANSI testing for waterproofing and are suitable as part of a waterproof installation when seams and fastener heads are properly treated.

3. Product Charicristics

- Thermally insulating
- Waterproof and dimensionally stable
- Low weight, one board(1200x600x10mm) is around 1.8KG
- Easy to cut(by knife or Saw)
- Excellent for wet rooms
- Excellent sound insulation(12mm board, 20 db)
- Environment friendly(free of CFC)
- Easy to be tiled

4. Available Sizes:

Thickness	Width	Length
6mm	600mm	1200/1250mm
8mm		
10mm	600mm	2440/2500mm
12mm		
20mm	600/1200mm	
30mm		
40mm		
50mm		
60mm		
70mm		
80mm		

5. Extra wide sizes:

- 3'x5'
- 3'x8'
- 4'x8'

Note:

1. For solid walls the minimum board thickness for mechanical fixing is 10mm
2. For stud walls, fix studs at 600mm centers for 20mm or thicker boards, while for 12mm or 10mm thick boards require to be fixed at 300mm centers.
3. Use long boards or extra wide panels to reduce the requirement for noggins and taping

6. Application



The XPS tile backer board is especially designed for high moisture area; It offers a fast, clean and easy installation method. When it's compared with Gypsum board or cement board, it is no need waterproofed before installation of tiles in wet area. And it can be installed almost all the area in the building as waterproof and insulation panel, Also can be used as structure panels to make furniture for example, benchers sets etc.

6. 1 solid walls

Background preparation

Plaster or Existing Tiles:

Plaster (existing tiles) need to be either removed, or mechanically be fixed above the plaster layer(existing tiles) with anchor bolts 35mm minimum depth to the plaster layer.

Brick/Block/Concrete:

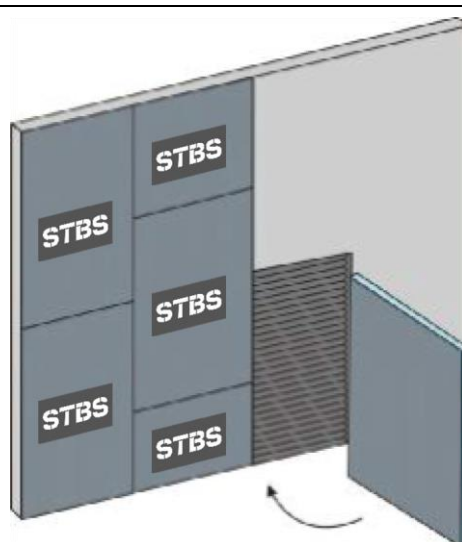
Apply the XPS tile backer boards directly to the surface using a rapid setting, flexible, cement-based, tile adhesive.

6. 1.1 Installation

Before applying the XPS tile backer board check that all wall surfaces are load bearing, sound, clean, and free from dust and other contaminants. Following 3 ways can be chosen to apply the XPS tile backer board.

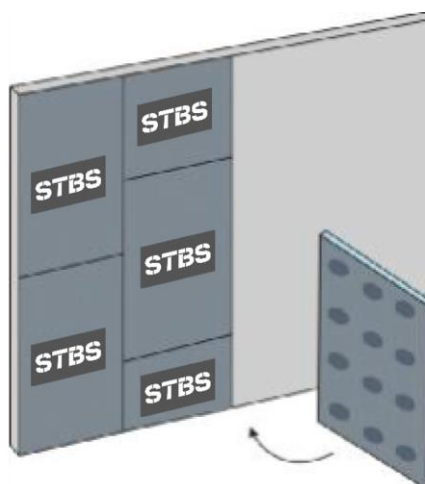
Option 1. **FIXING WITH A TILE ADHESIVE**

First, spread the adhesive evenly onto the wall using a minimum of an 8mm notch tiler's trowel. Then, put the board up to the wall and press firmly into position before adjusting with a spirit level to ensure that it is both flat and level (see [picture.1](#)). Keep in mind that the minimum board thickness for a brick, block, or concrete wall installation when solid bed fixing is 6mm.



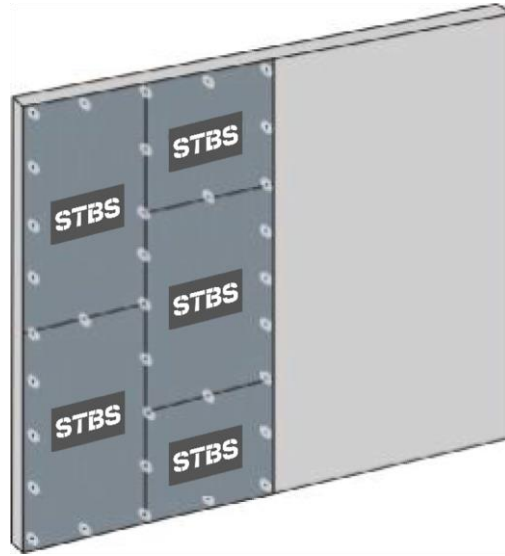
Option 2. **Dot and Dab Fixing**

(Brick/block/concrete): apply adhesive to the back of the board((see [picture.2](#)).The thickness of the adhesive should not exceed 30mm and the dabs should be a minimum diameter of 120mm. Then, put the board up to the wall and press firmly into position before adjusting with a level to ensure it is both flat and level. Keep in mind that the minimum board thickness for a brick, block, or concrete wall installation when dot and dab fixing, is 10mm.



Option 3. **Mechanical Fixing** (Brick/block/concrete):

First, using a 10mm drill bit, drill through the board to a depth equal to the length of the Anchor bolt (or screw and washer)that is being used. Use fixing pins to secure the board into place and hammer in, making sure not to crush the boards
(see [picture.3](#)).

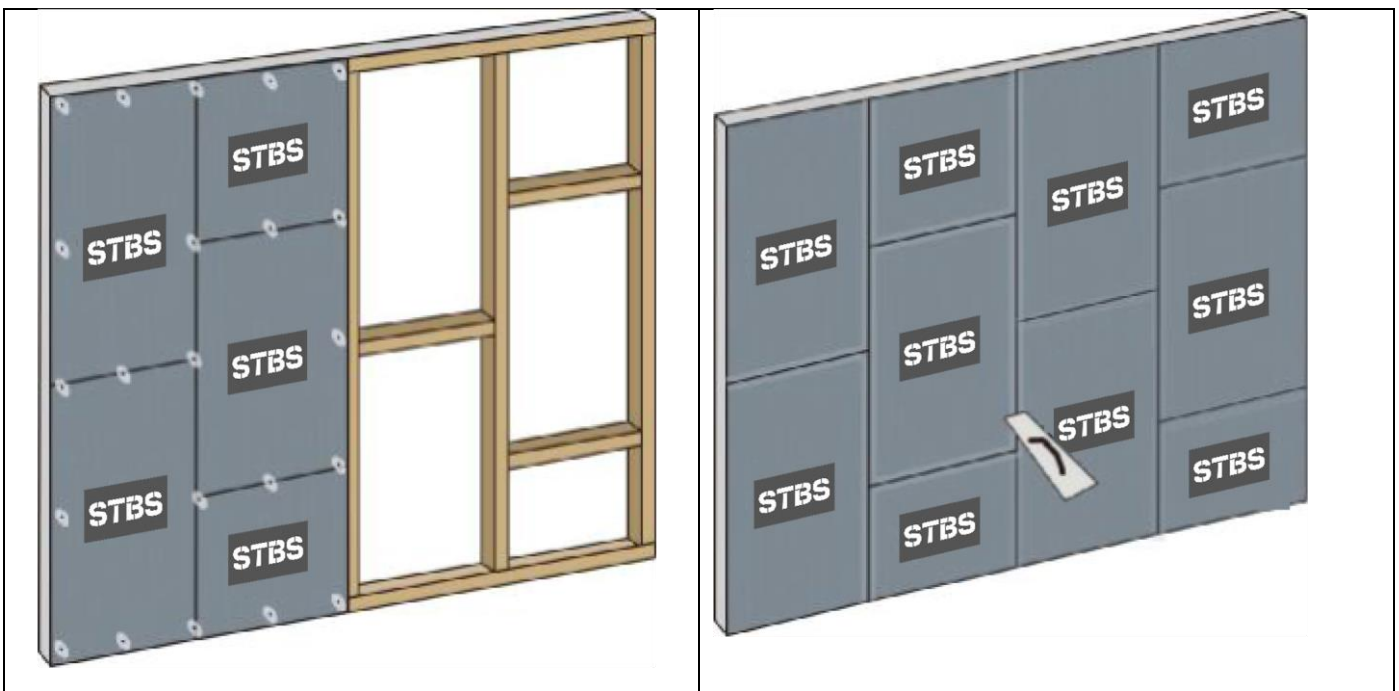


Note:

1. Gloves are recommend before the cutting of the XPS tile backer boards.
2. The joint sealant and waterproof tape are suggested to be used in wet area instead of fiberglass mesh tape before tiling.
3. If it's Mechanical fixing in wet area, the fastener area need to be sealed joint sealant or waterproof tape.

6 . 2 Stub walls

In dry areas, the joints can be treated with alkali resistant fiberglass mesh tape



- 1/2", 5/8" or 1" XPS tile backer boards are the recommended thicknesses for stud walls.
- Minimum wood stud depth 3-1/2", 16" o.c.
- Minimum 20 gauge metal stud, 16" o.c.
- The XPS tile backer board can be used over 19.1" o.c. studs.
- 2" alkali resistant fiberglass mesh tape is recommend to seal all the joints in dry areas. • The joint sealant and waterproof tape are suggested to be used in wet area instead of fiberglass mesh tape before tiling
- The mechanical fixing as for solid wall is also applied in stub wall.

6.3 floor with electric heating

The XPS tile backer board is also widely used in floor heating system. Due to the well insulation performance, it helps to warm floor upward and also have sound insulation ability, it is tested (ISO717-1:1996+A1:2006) that 20mm thickness tile backer board helps to decrease about 20db. With heating, the mechanical fixing is really not suggested, for the installation, please see below picture 12.

