



waterproof insulation board

BENEFITS:

- ✓ Fully waterproof
- ✓ Heat insulating
- ✓ Holds hanging weight up to 60kg
- ✓ Light weight, easy to fix
- ✓ For walls and floors

SUITABLE FOR:

- ✓ Waterproofing wet rooms and showers
- ✓ All types of tiles
- ✓ Use with underfloor heating as a de-coupling and thermal insulation layer
- ✓ Use as a partition layer

ORBRY BOARD THICKNESS & LENGTHS:

Thickness	OB12 1220mm	OB24 2440mm
6mm	✓	
10mm	✓	✓
12.5mm	✓	✓
20mm	✓	✓
50mm	✓	✓

FOAM PROPERTIES	TEST	RATING
Extruded polystyrene foam density		35kg/m ³
Thermal conductance	UNI EN 12667:2002	0.758 + 0.014/ -0.010 w/ (m ² .K)
Thermal resistance	UNI EN 12667:2002	1.32 + 0.02/ -0.025 m ² . K/W
Thermal conductivity	UNI EN 12667:2002	0.0376 +/- 0.0005 W/(m.K)



FIXING ORBRY BOARDS: TIMBER FLOORS & FLOOR

waterproof insulation
board

Orbry™ Boards are ideal for fixing floor tiles to timber, screed and concrete floors. Fully waterproof, they can be used to create an insulated tanked wall and floor system ideal for wet rooms. When used with electric under floor heating systems, **Orbry™ Boards** will increase the efficiency of the system by reducing heat loss to the surrounding environment, significantly reducing your electrical consumption. **Orbry™ Boards** are suitable for overlaying with ceramic tiles or stone.*

TIMBER FLOORS

1. Fix and level any loose floor boards. Floors must be stiff with minimum deflection under load.
2. Spread a coat of rapid-setting cement polymer modified fast setting cement based adhesive onto the floor and lay the Orbry™ Boards into the adhesive. Then mechanically fix with Orbry™ Stainless Steel Screws and Orbry™ Backer Board Washers. (see fig.1) Boards should be laid in a broken bond pattern.
3. When fixing to dry areas, apply **Orbry™ Self Adhesive Scrim Tape** to all horizontal and vertical joints using a thin layer of cement based tile adhesive and a float trowel (see Fig.2).

When fixing over timber the minimum board thickness is 6mm.

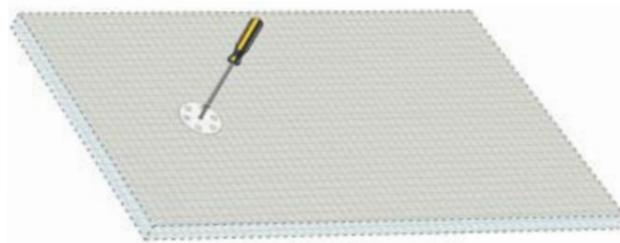


Fig.1
Fixing the Orbry™ boards using Orbry™ Stainless Steel Screws and Orbry™ Backer Board Washers.



Fig.2
Application of Orbry™ Self Adhesive Scrim Tape and cement based tile adhesive.

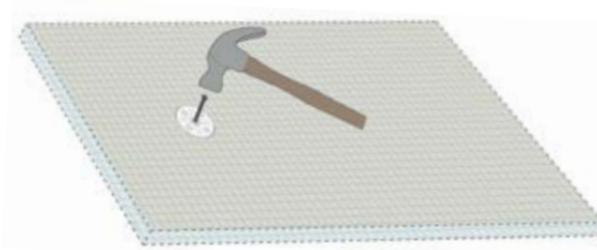


Fig.3
Hammering fixing pins into the Orbry™ Spanker Dowels.

SAND: CEMENT SCREED OR CONCRETE FLOORS

1. All surfaces must be of good quality, sound, flat, clean and free from dust and other contaminants including paint.
2. Apply a suitable flexible cement based adhesive ensuring no voids are left underneath and the boards and sub floor are 100% in contact with the adhesive.
 - New sand and cement screeds need to have cured for at least three weeks and concrete floors for at least six weeks.
 - Boards should be laid in broken bond pattern.
3. When fixing to dry areas, apply **Orbry™ Self Adhesive Scrim Tape** to all horizontal and vertical joints using a thin layer of cement based tile adhesive and a float trowel (see Fig.2).

When fixing over sand: cement screed or concrete the minimum board thickness is 6mm.

CALCIUM SULPHATE (GYPSUM BASED) SCREEDS

All surfaces must be of good quality, sound, flat, clean and free from dust and other contaminants including paint.

When fixing with cement based tile adhesives, the floor will need considerable preparation to ensure that a good bond is achieved. Please contact the adhesive manufacturer to obtain the correct specification.

Alternatively, fix Orbry™ Boards using Orbry™ Spanker Dowels.

1. Using a 10mm drill bit, drill through the board to a depth equal to the length of the **Orbry™ Spanker Dowel**.
2. Insert the **Orbry™ Spanker Dowel** into the hole and tap in the securing pin until the board is held in place.
3. Drill additional holes every 300mm and loose fit with **Orbry™ Spanker Dowels**.
4. Fit adjacent boards using same method and check for trueness.
5. Hammer in all fixing pins until the **Orbry™ Spanker Dowels** are all securely fixed (see Fig.3). Do not over-hammer the dowels or they will crush the boards.
 - Boards should be laid in a broken bond pattern.

10mm, or thicker, boards must be used when fixing over Calcium Sulphate screeds.

WATERPROOFING JOINTS FOR WET AREAS

Orbry™ Boards are fully waterproof and can be used to create a waterproof tanked system, so they are excellent for wet rooms and showers. When waterproofing an area, it is important to waterproof all joints. Tape all joints using one of the following waterproof tape systems:

1. **Orbry™ Waterproof Tape**, available in 5m and 10m rolls, and **Orbry™ Waterproof Corners**, fixed with **Orbry™ Waterproof Tape Sealing Compound**. In addition the **Orbry™ Waterproof Tape** needs to be fixed to all skirtings with **Orbry™ Waterproof Internal & External Corners** (see Fig.4).

TILING

Orbry™ Boards are an ideal surface to tile on. They bond with all proprietary tile adhesives, so all you need to do is choose the correct adhesive for the type of tile you are fixing. If in doubt seek further advice from the adhesive and grout manufacturer. For a wet area installation you need to achieve a solid bed of adhesive, ensuring no voids are left beneath the tiles.

CUTTING AND HANDLING

Orbry™ Boards can be cut easily with a utility knife. Even the largest boards weigh less than 10kg and can be handled and fixed by one person. The cut edge of a board can be rough, so suitable gloves should be worn.

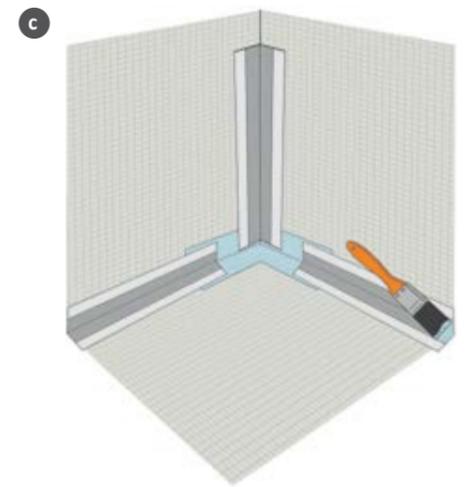
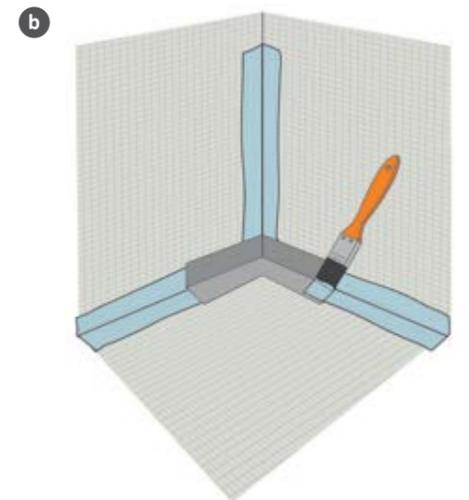
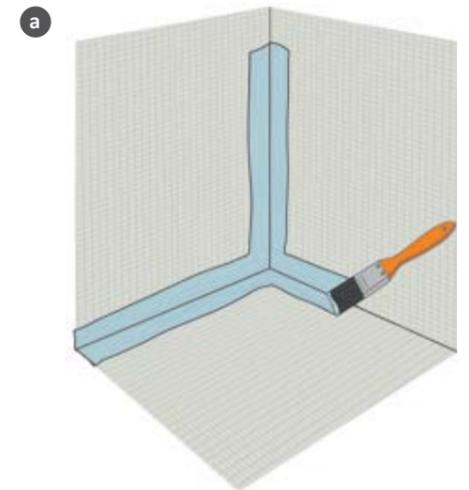


Fig.4
Fixing of an internal corner, using Orbry™ Adhesive Waterproof Tape and Orbry™ Waterproof Tape Sealing Compound.

* Bathroom use (barefoot or slippers traffic only) mosaics need to be 25 x 25mm or larger. For medium wear areas minimum tile size needs to be 50 x 50mm. Not suitable for use with vinyl flooring or carpeting.

PARTS REQUIRED

ORBRY™ WATERPROOF
INTERNAL & EXTERNAL
CORNER



ORBRY™
WATERPROOF TAPE



+

ORBRY™ WATERPROOF
SEALING COMPOUND



ORBRY™ STAINLESS
STEEL SCREWS



ORBRY™ BACKER
BOARD WASHERS



ORBRY™ SPANKER
DOWELS



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