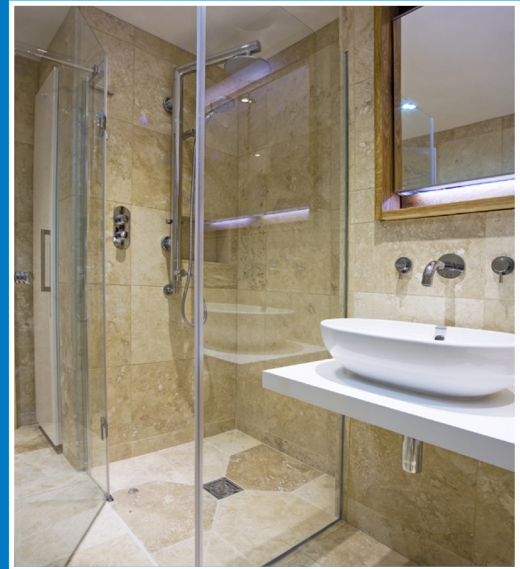
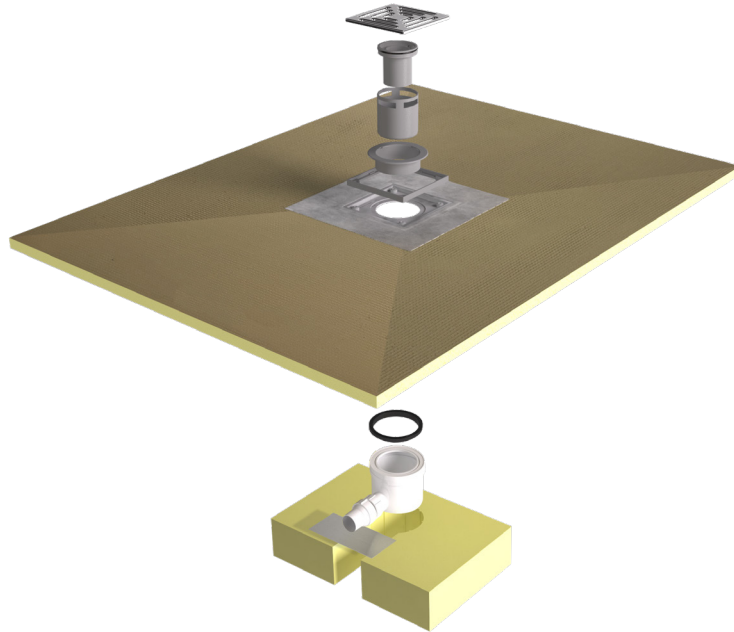


Underlay *Plus*



Underlay Plus Guarantee

If installed correctly by a competent person and used for normal wetroom applications the Underlay Plus (and membrane if supplied by us as a kit) have a life-of-tiling guarantee (if grout lines are maintained). No guarantee is offered where this is not the case.



Please ensure all tradesmen working on or around the installation have consulted these instructions and understand how to maintain the waterproofing integrity .

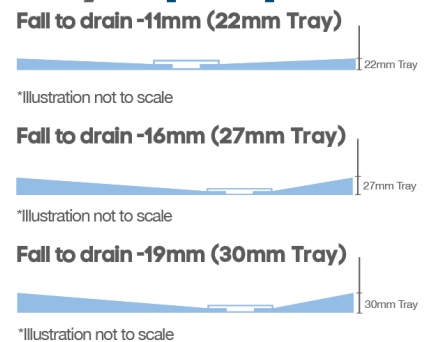
These instructions assume the wetroom has been appropriately designed and all plumbing and electrical work is to building regulations.

The Underlay Plus trays are available in thicknesses of 22mm and 27mm depending on the size of the tray used. Overlaying the surrounding floor area with Tile Backer Board will create a level access and thermally insulated wetroom floor. Thermal insulation will optimise the performance of any electrical underfloor heating system installed onto your wetroom floor.

Please note that the Underlay Plus is NOT designed for use with;

- Tiles that are less than 8mm thick
- Tiles that are less than 20mm x 20mm
- Vinyl floor coverings
- Solvent based adhesive
- Ready mixed adhesive paste

Tray Depth Options



For use with mobility shower chairs and wheelchair acces tiles must be no smaller than 150mm x 150mm

The Underlay Plus may be trimmed to size to suit site conditions and allow the drain position to be altered to avoid obstruction from the floor joists.



STEP 1
Clear the working area from loose debris and grease. Place the Underlay Plus onto floorboards to allow marking out of the tray perimeter onto the floor. When setting out the position of the tray it is important to remove the floorboards past the edge of the tray and back to the centre of the next joist. Check that the position of the drain does not conflict with joists below the floorboards.



STEP 2
If the drain conflicts with a joist or other obstruction, the tray side can be trimmed to alter the drain position.



STEP 3
With the tray position marked out, the floorboards can now be removed. Following the markings on the floor cut through the floorboards using an electric saw. Check the saw blade is set to the correct depth to avoid damage to the existing joists or any pipework/electrical cables which may be concealed below.

Check the planned position of the drain body is free of obstruction.

STEP 4

To allow support of the drain fitting aid and the drain body, construct a platform to suit the waste position in the tray. Using screws and glue, securley fix 50mm x 25mm timber battens to the floor joists then fix an 18mm marine plywood supporting base onto the battens.

18mm plywood must be used throughout the installation.

STEP 5

The drain fitting aid is 100mm deep and it is important when setting out the supporting platform to allow for the thickness of the fitting aid to finish flush with the top of the floor joists.

The drain fitting aid is designed to allow it to be cut to suit the position required.

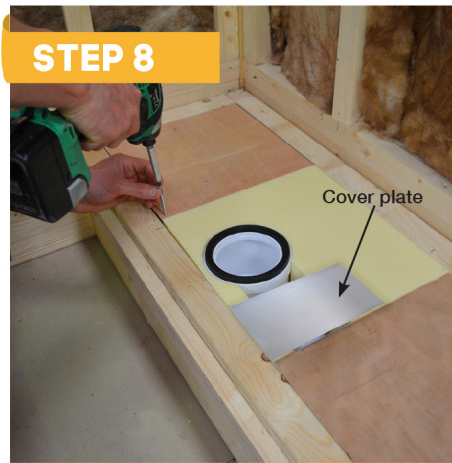
**STEP 6**

Once the platform is installed, place the drain fitting aid and drain body into position. Using 1 1/2" ABS fittings, fix the waste pipe into the drain body using a solvent weld. Its is important at this stage to check for any leaks, as you may not be able to return to this assembly at a later date.

Before any glue is applied, the position of the drain fitting aid must be checked by placing the tray in place.

STEP 7

With the drain body and waste route now installed and tested, a structural platform to support the tray can be fitted. The Underlay Plus is not designed to span joists, therefore it is essential that the entire base of the tray is supported by a structurally stable surface. This is achieved by securley fixing 50mm x 25mm battens set 18mm below the top of the floor joists. The battens should be fixed using glue and screws to the supporting joists.

STEP 8

With the battens secured, an 18mm thick plywood support platform must be placed between the joists to support the entire base of the tray. The 18mm plywood should be screw fixed to the 50mm x 25mm timber battens and should finish flush with the top of the floor joists.

Place the stainless steel cover plate over the void in the drain fitting aid.

STEP 9

Now check the alignment of the drain body and the drain aperture in the tray. Make sure they are perfectly aligned and if necessary adjust accordingly. The tray should now fit onto the newly created platform but sit slightly proud of the remaining floor area. Excess floorboards may have been removed back to the next joist centre. This can be backfilled using marine plywood at the necessary thickness to suit.

Depending on the tray thickness the height difference between the tray and the surrounding floorboards can vary. This difference will be made level by fixing Tile Backer boards over the surrounding floor area.

STEP 10



The Underlay Plus can now be fixed into place using a good quality, cement based rapid setting flexible tile adhesive. Apply the adhesive with a thick bed notched trowel to the area where the tray is to be placed. Make sure adhesive is applied over the stainless steel cover plate. When applying the adhesive around the drain it is important to leave a 10mm gap between the adhesive and the main rubber seal of the drain body.

Should any adhesive come into contact with the rubber seal of the drain body, remove the seal immediately and clean thoroughly with water before continuing.

STEP 11



With care place the tray into the adhesive. Make sure the rubber seal of the drain remains firmly seated on the drain body. Apply moderate pressure to the entire surface of the tray and around the drain aperture, making sure there are no hollow spots beneath the tray.

Using a spirit level make sure the tray is perfectly flat and level around perimeter. If the tray is set out of level, water will not flow to the drain correctly.

STEP 12



Using the securing tool supplied with the drain, screw the threaded waste collar into the drain body before the adhesive hardens. Care must be taken to fully tighten the assembly to ensure a watertight seal is achieved. The securing tool should be left within the drain body at this stage to protect against debris falling into the drain during tiling and grouting.

STEP 13



With the tray fixed into the adhesive, the surrounding floor area can now be overlaid with Tile Backer Boards. It is very important that the existing floorboards must be securely fastened to the joists using suitable screws. If previously fixed with nails, additional screws should still be used.

Tile Backer Board can be fixed directly to wooden floors using 35mm diameter washers or if preferred using cement based rapid setting flexible tile adhesive.

STEP 14



If the Tile Backer Boards are to be fixed using a dry fix method, washers should be positioned at approx. 200mm centres. It is important to use the correct length of screw to avoid penetration of the floorboards when fixing in place.

The boards should be positioned in a brick bond fashion to stagger joints and checked to ensure there are no hollow spots beneath the boards.

STEP 15



If using a cement based adhesive to fix the Tile Backer Boards, the existing floor must be primed using a suitable floor primer. Apply a solid bed of adhesive using a thick notched trowel and firm down the boards into the bed.

The boards should be laid out in a brick bond fashion to stagger joints and checked to ensure all boards are level.

The installation must now be tanked before tiling.