

DeltaTray Trent

Installation Guide With Linear Drain on Solid Floors



DeltaTray Trent

Installation Guide With Linear Drain

DeltaTray Trent shower tray formers have been developed to create elegant and luxurious wetrooms. The versatility of the components satisfies all possible bathroom layouts providing a totally waterproof solution. They are designed for installations that are to be finished with natural stone, ceramic or porcelain floor tiles.

Using DeltaTray Trent for your wetroom project provides versatility of installation. The easy to cut base allows the tray edges to be trimmed to suit site conditions providing complete flexibility, allowing the drain position to be altered avoiding obstruction from the floor joists.

The Trent shower tray formers are 30mm thick. Overlaying the surrounding floor area with DeltaBoard will create a level access, tile ready, waterproof and thermally insulated wetroom floor. Thermal insulation will optimise the performance of any electrical underfloor heating system installed onto your wetroom floor.

It is very important that you fully read through these instructions to familiarise yourself with processes and requirements set out before commencing installation of your Delta Tray Trent.

Tray Depth

Fall to drain -20mm (30mm Tray)



Important Information:

Mobility Access:

Tiles must be greater than 150mm x 150mm if installing mobility shower chairs and for wheelchair access.

DeltaTray is not designed for:

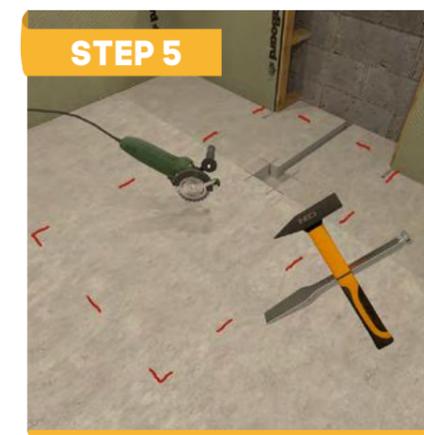
- Tiles that are less than 8mm thick
- Tiles that have a surface area less than 20mm x 20mm
- vinyl floor coverings.
- solvent based adhesives.
- ready mixed adhesives.

Wastewater Connections:

- All wastewater drainage connections must comply with building regulations code of practice: BS EN 12056-2:2000.
- The minimum pipe gradient fall from the shower trap to the soil or drain, should be minimum 18mm/per mtr.
- The maximum pipe discharge run from the shower trap, should be no more than 3 meters max, and sharp bends should be avoided.



Place tray into its location and mark out positions onto the floor. Mark the perimeter of the tray and the drain position. Mark out for the drain aid and waste outlet pipe ready for excavating of any concrete that needs to be removed.



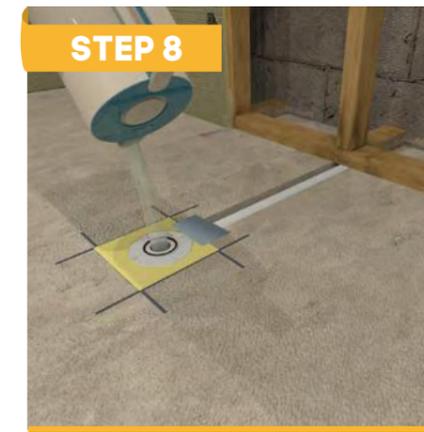
Once the drain fitting aid and waste pipe positions are marked out, excavate using the appropriate tools. Excavate the concrete to a depth of 105 mm for the drain fitting aid and for the waste water pipe.



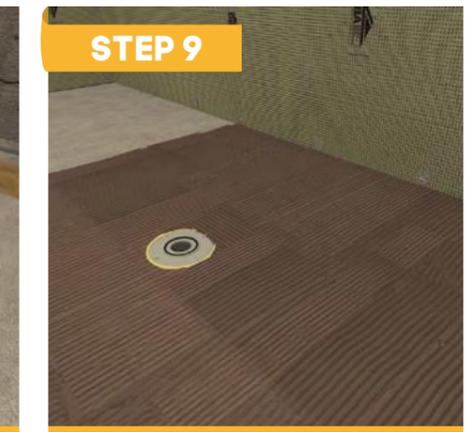
With channel excavation completed, connect the wastewater pipe. Height adjustment in the waste outlet pipe is required for connection to the drain body of the tray. The waste pipe will be embedded in adhesive at a later stage.



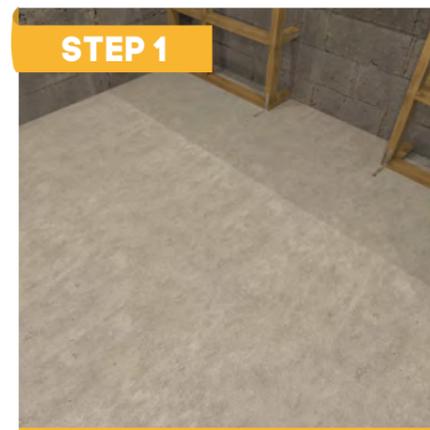
The drain fitting aid should now be placed in the excavated hole and embedded with tile adhesive to sit flush with the concrete floor. The drain unit can now be fitted into the drain fitting aid and solvent welded to the drain outlet pipe.



The waste waterpipe and the drain unit should now be tested for water tightness before proceeding. Fit the stainless steel plate over the channel.



The area where the shower tray is to be laid must be primed with a suitable primer acrylic or SBR based primer. Apply cement based tile adhesive covering the tray area. It is important to completely backfill the waste pipe channel so that the tray is completely supported by the adhesive.



When starting any wetroom floor installation, it is always advisable to completing the wall installations first. We recommend DeltaBoard for Wetroom and Shower installations.



Trim the drain fitting aid to 160mm square allowing 20mm clearance around the diameter of the inner circle. Recess the drain aid into the concrete floor to assist and support the installation of the drain waste.



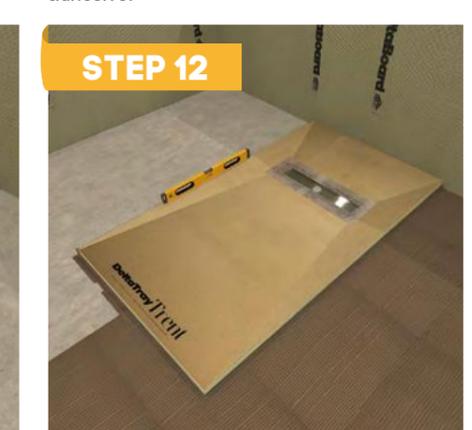
The drain unit supplied with the tray is designed for use with inch and half solvent weld pipe.



Using the securing tool provided in the drain kit, screw the threaded waste collar into the drain body before the adhesive hardens. Fully tighten the assembly to ensure the drain body is pulled upwards to meet the underside of the trays to create a watertight seal. The waste pipe will also be lifted upwards.



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.



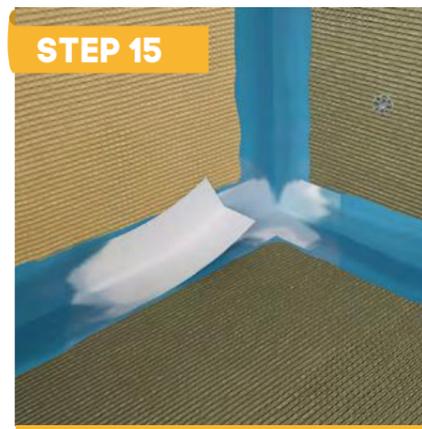
Fix DeltaBoard with cement based tile adhesive to raise the height of the surrounding floor to finish flush with the shower tray creating a step free, level access floor.



Fix DeltaBoard in a brick bond pattern to stagger joints.



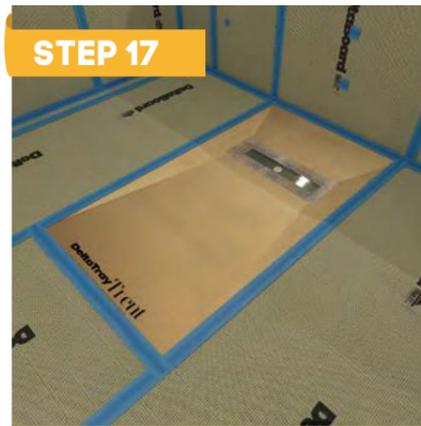
Apply a 5mm bead of DeltaSeal where the tray meets the walls, and also to all internal wall to wall joints within the shower zone.



For all joints, cut the waterproof tape roll to the required length. Allow the tape to overlap any previously fitted tape by a minimum of 50mm. It is important that all screw fixings within the shower area, are made waterproof by applying the tape and waterproofing paste.



Make sure that all tape is bedded into the wet paste. When the first coat of paste has dried (10-30 minutes) a second and final coat of paste must be applied over the taped to ensure a watertight seal is created.



All bridging joints between boards and tray should be lined and coated with waterproofing tape and paste.



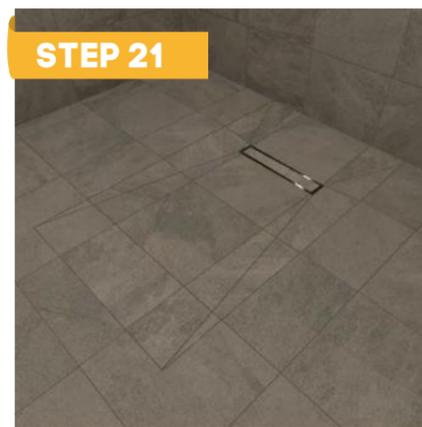
Once tanked, the application tiles can begin.



Lay tile adhesive over the tray area and over the gasket up to the drainage aperture ready for the application of tiles.



Fix tiles following the gradient of the falls in the tray ensuring that all the tiles fall to the drainage.



Complete the tiling.

DeltaTray Trent: Universal Grate

Brushed Stainless Steel Finish



Tile-Into Finish



Supplied with a universal tile-into grate finished in satin brushed stainless-steel, the grate can be fitted with the brushed stainless face showing or if preferred the grate can be rotated and "tiled-into" reducing the visibility of the drain location providing a modern minimalistic look.

Tiling Notes: Under Tile Heating

DeltaTrays and DeltaBoards are perfectly suitable for use with *electric under tile heating systems. We highly recommend the installation of electric heating systems into your newly created wetroom floor including installing the heating element directly onto the DeltaTray and into the "Shower Zone" adding that extra special touch of comfort. Heated floors will also speed up the drying of the floor after showering. *Only use electric heating systems that are rated IPX7 in wetroom environments, and connected to an electrical supply that is protected by a 30 milliamp RCD, installed in accordance with electrical standards and regulations.

the tray carefully cutting the tiles to match the inbuilt falls in the Delta Tray. Consideration must be given to the following when choosing tiles: For wheelchair access, tiles with a surface area no smaller than 150mm x 150mm should be used, for bare foot traffic, tiles should be no smaller than 20mm x 20mm mosaics. Complete the tiling of the floors and walls and grout the joints. Grouting should be carried out using a suitable waterproof cement or Epoxy grout.

Note: Ready Mixed or Solvent based adhesives must NOT be used.

Fix tiles using a good quality, cement based, rapid setting, flexible tile adhesive. If using large format tiles, we recommend that you start by laying the tiles working from the corners of the fitted frame to the external corners of

Take care when installing shower screens and shower hardware which will be required to complete your wetroom area.



Delta Waterproofing Kit Contents



How To Guide Trimming Your DeltaTray Trent

Your **DeltaTray** can be trimmed enabling the tray to be altered slightly to suit installation tolerances and also to overcome issues that may arise if the drain position becomes obstructed by joists under the floor. Trimming the tray will reduce the thickness of the tray on the sides that are to be trimmed. It is very important that after trimming, the cut sides of the tray are not reduced by more than 2mm of the original tray thickness.



The maximum length that the tray sides can be trimmed varies greatly and is dependent on factors such as tray thickness, tray size and drain position. Using the chart and following the example set out below you will be able to calculate the maximum cut length that can be trimmed off each side of your **DeltaTray**.

Identify the tray thickness, measure the side to be trimmed from the tray edge to the edge of the grate housing frame, multiply this measurement by the corresponding figure in the chart below. This calculated figure is the maximum length that can be trimmed from the tray.

Tray Thickness	Multiply Your Measured Distance By
30mm	x 0.10

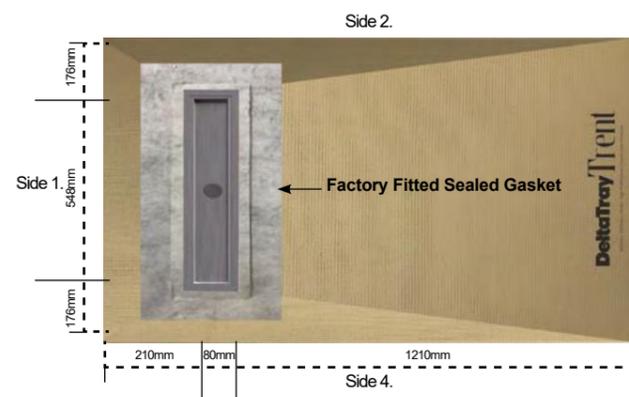
Example 1

- Side 1 can be trimmed up to 21mm ($210 \times 0.10 = 21\text{mm}$)
- Side 2 can be trimmed up to 15mm ($150 \times 0.10 = 15\text{mm}$)
- Side 3 can be trimmed up to 121mm ($1210 \times 0.10 = 121\text{mm}$)
- Side 4 can be trimmed up to 15mm ($150 \times 0.10 = 15\text{mm}$)

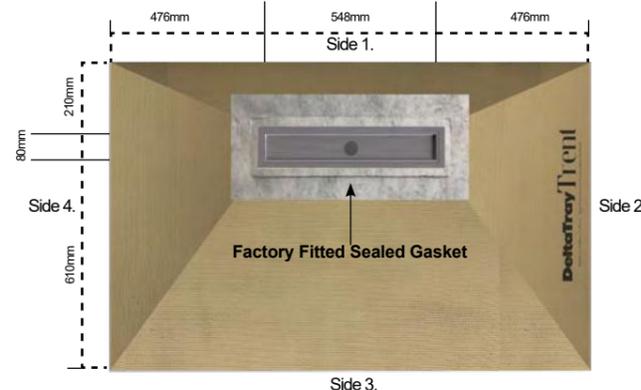
Example 2

- Side 1 can be trimmed up to 21mm ($210 \times 0.10 = 21\text{mm}$)
- Side 2 can be trimmed up to 47mm ($476 \times 0.10 = 47\text{mm}$)
- Side 3 can be trimmed up to 61mm ($610 \times 0.10 = 61\text{mm}$)
- Side 4 can be trimmed up to 47mm ($476 \times 0.10 = 47\text{mm}$)

Shower Tray 1500mm x 900mm x 30mm



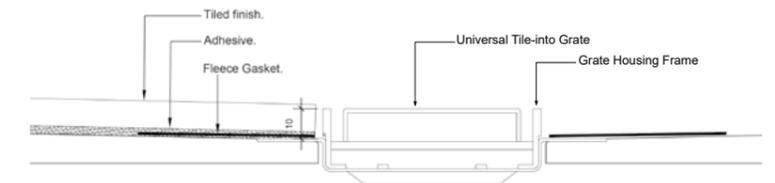
Shower Tray 1500mm x 900mm x 30mm



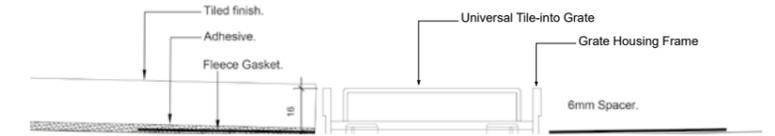
Fixing The Stainless Steel **Frame & Grate**

DeltaTray Trent shower tray formers have been designed with a height adjustable grate housing frame that provides great flexibility for the installer when applying tiles and installing electric under tile heating.

The adjustable grate housing frame can be easily modified to suit tiles as thin as 8mm and up to 15 mm thick. The frame can also be adjusted to accommodate electric under tile heating systems.



Grate housing without spacer.





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