Installation Overview.
Level entry onto timber joists.
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Notch wall frame to suit & bring trimmer down on top of lip & fix in place.

- Tiling adhesive
- Waterproofing
- Wall sheet
- Caulk between sheets
- Reinforcing tape

Selected floor waste option

Additional floor framing support
Additional trimmer for support
Additional floor framing support
Additional trimmer for support
Additional floor framing support

Universal Shower Base
Waterproofing
Reinforcing tape
Floor tiles
Tile underlay
Particleboard sub-floor

Caulk between shower base and floor sheets
Read before installation.

Please read these installation instructions carefully before proceeding.
Keep guide for future reference.
If you are unsure about any part of the installation, please contact our Technical Department on: (03) 9706 4780. Incorrect installation will invalidate the guarantee.
Wear safety goggles, gloves for handling, appropriate clothing and footwear.
Handle with care.

This product can be installed on timber, concrete or steel substrata.

1. Measure the base thickness – If you wish to achieve a level entry shower you will need to check the thickness of the shower base before removing the lip and/or installing the base (Please note: all shower bases vary in thickness, from 25mm to 45mm, depending on the size and style, if you do not check the shower base thickness you may not achieve the desired result. Please measure the shower bases thickness before installation).
   • Centre Waste - Most centre waste shower bases are 25mm but may vary +/- 5mm
   • Rear Waste - Most rear waste bases are 30mm but may vary +/- 5mm
   • Channel Grate - Most channel grate bases are 40mm but may vary +/- 5mm (To achieve level entry on joists you may need to recess the shower base into your joists or add additional flooring to increase the height of your floor)
Please check the specification drawings which are available for all of our standard sizes on our website www.universalshowerbase.com.au.

2. Measure the shower base dimensions – Check the external and/or internal dimensions of the shower base to ensure your area is ok. You may need to adjust the amount you check into the wall to achieve desired result.

3. Check your waste outlet dimensions – Check the plumbing requirements (i.e. what pipe size you have), your shower base waste outlet size and the depth allowed for plumbing. Some of our standard waste outlets are designed for 80mm plumbing to help meet the various plumbing standards across Australia; you may need to purchase an adaptor (DWV level invert taper etc...) to reduce the waste to suit your plumbing. We do not supply the adaptors as only your plumber will know which adaptor is required to suit your allowed plumbing depth and plumbing requirements.

4. Check your waste style – Check that the shower base you have received has the desired waste outlet style before installing the shower base. You cannot turn a Twist Top Puddle Flange with an 80mm chrome grate into a 130mm Smart Tile (Tile In Grate) and vice versa. Please note: we are able to install different waste outlet styles into our shower bases, if you require a different waste or channel grate style than our standard please notify us before installing the shower base as we may need to modify the grate area or supply you with a new shower base to suit your desired grate style.

5. Check your waste outlet position – Please check that the position of your plumbing is suitable to the position of the shower base waste outlet.
6. Adhesives:
   a. Only use good quality polyurethane adhesive’s to bond the shower base to the substrate, to caulk joins or expansion joints. Sika, Bostic, Selly’s, Pasco all have a range of good quality polyurethanes.
   b. Adhesive to cement slab – If you would like to mud your shower base down onto/into your slab please contact our office on 03 9706 4780. You will require a two pack epoxy resin to allow a bond between the shower base and the cementitious adhesive. We can supply this or recommend one for you.
   c. When adhering to a cement slab (not mudding) only use a good quality polyurethane adhesive to bond the shower base to the substrate.

7. When working with timber joists with 450mm centres, ensure that vertical movement with a concentrated load of 140kg does not exceed 1.25mm, If this does occur we recommend more trimmers installed to reduce deflection.

8. Waterproofing – The shower base is manufactured from a water repellent composite material, you will need to apply a waterproof membrane to the surface of the shower base to allow for tiling adhesion, if you wish to use a waterproof membrane that is not listed in our instructions please conduct a test patch on the shower base to ensure adhesion before applying to the entire surface.

9. Do not seal the waste outlet – Please see page 11 for more information.

10. Ensure your substrata is level - All shower bases are manufactured using the same process and tooling, the material the shower bases are manufactured from is engineered with some flexibility to allow for movement in the house, if the substrata that the shower base is installed on is not level the shower base may follow the distortion, potentially reducing the fall in the surface of the shower base or cause the fall to change potentially causing the water to travel away from the waste outlet.
Preparing the area for the shower base.

1. Mark out base position.

2. Cut out flooring to suit level entry. Skip step 2 if you are installing above the flooring.

3. Notch out wall plate 10mm and studs 35mm in shower area, (140mm high) to allow the base to be recessed into the wall and your trimmer to fit;

If you are unable to notch out your wall plate skip this step. See page 13 for example drawing.
If you are recessing the shower base fully into the floor please see pages 14 & 15.

4. Check waste position.
5. To support the shower base you must do one of the following:
   a. Adjust and add trimmers to support the shower base (minimum of 300mm centres) there should be
      minimal flex anywhere you intend to tile (where the base will sit). Ensure base is fully supported along
      all four edges & around waste outlet
   b. Alternatively you can install the shower base directly onto flooring. To achieve level entry, fix battens to
      sides of joists and install flooring on top of battens. If you are unsure please contact a professional builder.
6. Check the substrata is level before proceeding.

Trimming the lip.

7. The sides not checked into wall studs can be trimmed flush to achieve level entry, trimmed to create a hob or to meet your shower screen height (See Trimming Options).

Trim shower base lip as required using any wood working tools. i.e. angle grinder, handsaw etc. (Please note the shower base is manufactured from a water repellent material so trimming will not affect the structural integrity of the product or the water repellent properties).

Trimming Options.

Trimming the lip as per the trimming options above will not affect the warranty.
8. Ensure that the floor is clean, dry and dust free, apply a polyurethane adhesive (do not use silicone it will not bond to the shower base) in a continuous bead over all joists and trimmers. When installing directly to flooring, apply in a continuous bead at a maximum of 50mm centres under the entire area of the base.

Use one of the recomended brands of polyurethane construction adhesive.

- Bostik Seal 'n' Flex.
- Sikaflex 291, 11FC and PRO.
- Pasco Hyperflex.
- Selley's Liquid Nails Direct Stick or High Strength.

9. Install the shower base by placing it over the glue and bedding (do-not slide the base into position).

10. Secure base with trimmers, weight and/or ceiling prop until the construction adhesive cures.
    
    If you are unable to notch out your wall plate please see page 13.
11. Install the wall sheet and tile underlay then caulk between wall sheet, floor and shower base with a polyurethane construction adhesive (do not use silicone it will not bond to the shower base).

If you are unable to notch out your wall plate please see pages 12 & 13.
If you are recessing the shower base fully into the floor please see pages 14 & 15.
12. To assist adhesion, thoroughly sand the shower base surface incl. face of the flange with 80grit sand paper. Thoroughly clean shower base with methylated spirits or acetone (Do not use mineral turpentine). Ensure surface is dry, free from dust and loose material or contaminants (oils etc…).

Apply a reinforcing tape into internal angles/corners where the shower base meets the wall and floor junctions and to all vertical corners in the shower (wall to wall junction) to a minimum height of 150mm. If you are unable to notch out your wall plate please see pages 12 & 13. If you are recessing the shower base fully into the floor please see pages 14 & 15.

13. The shower base is manufactured from a water repellent material, most tiling adhesives will not bond directly to the shower base, and a waterproof membrane needs to be applied to the shower base to allow for tiling adhesion. Apply waterproof membrane as per manufacturers instructions.

If you have a preferred waterproof membrane that is not listed here or that you haven’t used on a Universal Shower Base before please conduct a test patch on the shower base or contact the waterproofing manufacturer for further information.

Please note that most waterproof membranes will require the use of a primer of the same brand to ensure adhesion to the shower base surface.
14. Cut your tiles according to the fall of the shower base. Please use a tiling adhesive that corresponds with the waterproofing that you have used. For information on tiling, please contact a professional tiler.

The following membranes have been tested with our shower base:

- Crommelin Shower Waterproofing Membrane (refer to manufacturer’s instructions) no primer required with this product.
- Davco K10 Plus used in conjunction with Davco Ultraprime or Davco Lanko 531 Primer (refer to manufacturers instructions).
- Ardex WPM 300

Tiling the Universal Shower Base.
A problem widespread throughout the industry is that tilers are filling up waste outlets with tiling material and/or adhesives totally rendering the flange useless in its ability to drain water from the tile bed. Water forms a reservoir under the tile bed and constant use sees water travel to any point of exit it may find.

Porosity of adhesive and grouts.
Most cement based products including grouts and adhesives are porous to some extent. They show minute voids caused by evaporation of uncombined water or small voids between the aggregates.

Pores allow water to permeate through the grout into the adhesive and substrate.

Water likes to travel.
Voids left in the adhesive layer after bedding the tiles, will allow any water that penetrates the grout or sealant to accumulate. This may cause mould growth due to the effect of entrapped water. Alternatively, the trapped water may run along channels left in the adhesive bed and leak out or drain at different points.

So please remember: Keep the waste clear. Do not fill the waste with tiling material, adhesives, grout or anything else as any water absorbed into the grout lines or that travels through the tile bed, needs to drain down the waste outlet, sealing the waste will cause the water to dam and the tiles will start lifting or the water will back up into the rest of the bathroom.

When trowling tiling adhesive, rake the channels towards the waste outlet to allow the water to drain away. Do no rake across the base.
Level entry onto timber joists butted up against wall stud.

This section is to advise on what to do differently if you can not notch into your wall stud.
These steps replace the standard steps ONLY if you *cannot* recess the shower base into the wall.

3. Skip step 3 if you are not notching out the wall to recess the shower base into it. Continue with step 4 on page 4.

10. Secure base with weight and/or ceiling prop until the construction adhesive cures.

11. Install the wall sheet bringing it to approximately 5mm above the shower base lip and install tile underlay. Then caulk between wall sheet, floor and shower base with a polyurethane construction adhesive (do not use silicone it will not bond to the shower base). Continue with step 12 on page 9.
Fully recessed into timber joists.

This section is to advise on what to do differently if you are fully recessing your shower base instead of installing for level entry.

Notch wall frame to suit & bring trimmer down on top of lip & fix in place.
These steps replace the standard steps ONLY if you are installing the base fully recessed into timber joists.

3. Check out or lower floor joists to allow base to be recessed to correct height for below floor level installation. Continue with step 4 on page 4.

11. Install the wall sheet and tile underlay then caulk between wall sheet, floor and shower base with a polyurethane construction adhesive (do not use silicone it will not bond to the shower base). Continue with step 12 on page 9.
Step up above floor entry.

This section is to advise on what to do differently if you are installing above of your flooring.

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- Reinforcing tape

Selected floor waste option

- Universal Shower Base
- Waterproofing
- Reinforcing tape
- Floor tiles
- Tile underlay
- Particleboard sub-floor

Caulk between shower base and floor sheets

Additional floor framing support

Additional trimmer for support

Additional floor framing support

Additional trimmer for support

Additional floor framing support
Step up above floor entry.

These steps replace the standard steps ONLY if you are installing the base above the floor.

3. Notch out wall plate 10mm and studs 35mm in shower area, (140mm high) to allow the base to be recessed into the wall and your trimmer to fit;
   Continue with step 4 on page 4.

11. Install the wall sheet and tile underlay then caulk between wall sheet, floor and shower base with a polyurethane construction adhesive (do not use silicone it will not bond to the shower base).
    Continue with step 12 on page 9.
Twist Top Puddle Flange 80mm x 80mm.

- Ø 84.37mm
- Ø 59.85mm
- 2.5mm
- Ø 190mm
- Ø 75.35mm
- Ø 76.2mm
- 45mm
- 2.5mm
- 59.85mm
1. Install the twist top into the Puddle Flange, twist to the height of the tiles and use the square plastic insert (dust cap) when tiling, replace this with your grate when finished. This is to keep the grate clean and scratch free and to stop tiling material, waste & debris from getting into your plumbing.

2. The Puddle Flange is smooth plastic. To assist adhesion, sand and paint a primer or plumber’s glue on the surface of the Puddle Flange and sprinkle with dry clean sand ready for membrane or tiling material.

3. When grouting the gap between the grate and tiles, ensure the grout is thick and does not contain excess water; grout that contains excess water will crack and fall through any gaps. Alternatively use a neutral cure silicone the same colour as your grout.

4. Wipe all grout from grate before it dries.

5. Do not fill the waste with tiling material, adhesives or grout as any water absorbed into the grout lines or that travels through the tile bed, needs to drain down the waste outlet, sealing the waste will cause the water to dam and the tiles will start lifting or the water will back up into the rest of the bathroom.

*Please note: The Puddle Flange is to be glued into 80mm pipe. If you do not have 80mm plumbing you will need to purchase an adaptor. For example: 80x50 level invert taper, pipe reducer or socket reducer.*
Tile-In Grate 110mm x 50mm.
Tile-In Grate 110mm x 50mm.
1. Sit the Tile-In Grate into the base, confirm height of the Tile-In Grate against tiles, you can pack out under the Tile-In Grate with a waterproof material to increase the height. Use a small amount of a polyurethane adhesive (the same size as a 10-cent piece) in each corner to hold the Tile-In Grate in place.

2. When grouting the gap between the Tile-In Grate and tiles, ensure the grout is thick and does not contain excess water; grout that contains excess water will crack and fall through any gaps. Alternatively use a neutral cure silicone the same colour as your grout.

3. Do not fill the waste with tiling material, adhesives or grout as any water absorbed into the grout lines or that travels through the tile bed, needs to drain down the waste outlet, sealing the waste will cause the water to dam and the tiles will start lifting or the water will back up into the rest of the bathroom.
Vinyl Waste 80mm x 80mm.

Vinyl flooring goes under waste.

Please note: The Vinyl Flange is to be glued into 80mm pipe. If you do not have 80mm plumbing you will need to purchase an adaptor. For example: 80x50 level invert taper, pipe reducer or socket reducer.