

ACRYLIC SHOWERS — PRE-INSTALL SPECIFICATIONS

Building Preparation | Plumbing NZ Building Code Compliance Tray & Liner Alignments

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IMPORTANT!

1. When you receive your shower package, please check for any freight damage.
2. If damage has occurred, advise your supplier within 8 hours.
3. Do not install any faulty product as this will invalidate later claims.

WARRANTY

- Faulty goods are covered under warranty. Visit **stein.nz** for details.
- Installation must comply with Pre-Install specifications and Install instructions to be valid.

HEALTH & SAFETY

- Electric wires, Gas & water pipes within a wall or floor must be shown during construction to protect against life threatening injuries.
- Check MSD sheets and ventilate rooms if using products with harmful vapours.
- Wear protective equipment and suitable clothing for the task undertaken.

TIMBER FLOOR CONSTRUCTION

Surface Mounted Trays

- The floor structure must comply with the current NZS 3604 code, "be level with no deflection and support the Acrylic Tray fully up to 100mm off the waste position".
- Acrylic Tray Detailing: The drawings on in pages 4 and 5 shows the alignment to bottom plate.
- New installation Floors: These must comply with current NZS 3604 code including current timber treatments in relation a shower enclosure.
- Existing Home Floors: Chip board and tongue & grove boards are acceptable in sound condition although it is recommended Hardies underlay is installed, glued, and fastened to their specifications if a little movement or deflection is present.

Recessed Acrylic Trays

- Trays recessed In wood floors are usually In the range of 20mm to 30mm for improved entry. This is a case-by-case application, so no detailing has been included.
- The structural strength of floor must be level with no deflection and support the Acrylic Tray fully up to 100mm off the waste position.

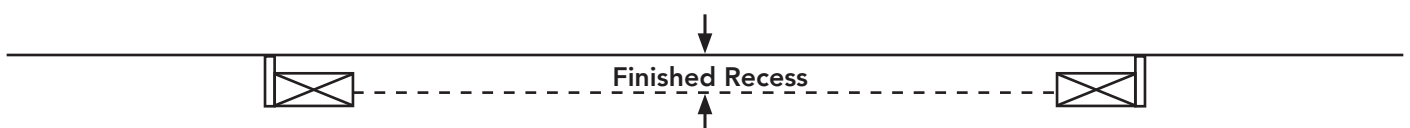
CONCRETE FLOOR CONSTRUCTION

Surface Mounted Trays

- Structural integrity of concrete and a level surface is essential.
- Remove residues off the surface. Concrete grinding and floor leveling compound maybe needed for preparation and leveling up.
- If the concrete pour or screed has recently been laid this must be tested for the relative humidity. 75% is the maximum permissible. Remedial treatment must be done if too high.

Recessed Acrylic Trays

- Prior to pouring the concrete floor: Box up recess at 10 to 20mm deeper and 15mm greater than final size required. Include boxing up for the waste pipe position.



Finishing of recessed after the walls are up

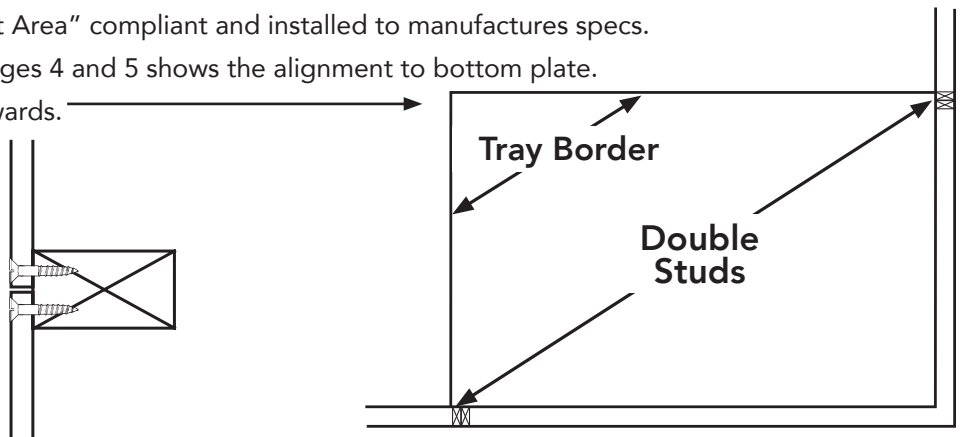
1. Build the sides of recess with tile adhesive to Tray size. Firstly, ensuring alignment against the bottom plate on the wall sides.
2. The plumber to secure the waste in position and at the specified tray depth.
3. Floor leveling compound is then used to level up to depth.

WALL CONSTRUCTION

Wall Specifications

1. Framing: Must be straight, 90-degree corners and NZS 3604 compliant.
2.  Variation to plumb: Wall must not exceed 3mm over the shower wall height.
3. Wallboard Install: Must be "Wet Area" compliant and installed to manufactures specs.
4. Acrylic Tray: The drawings in pages 4 and 5 shows the alignment to bottom plate.
5. Double Studs at border and inwards.
6. All wallboard joins must be fastened to framing with no stopping.

No Exceptions!



13mm Wallboard: Framing for 3-Sided Alcove must be 6mm wider and 3mm deeper.

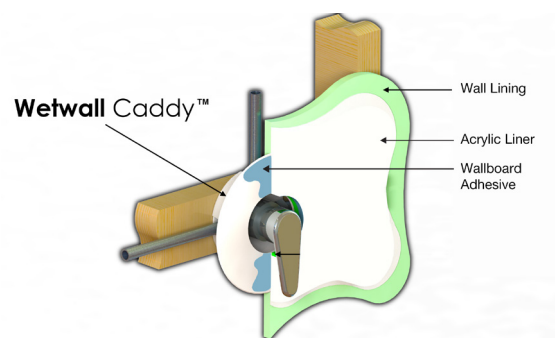


NOTE: No paint or stopping more than 30mm in past the shower outline. If this has been overlooked, delamination will occur on painted walls & adhesion to stopping is very weak. Extra adhesive costs and changes to preparation apply.

PLUMBING

Walls

1. The Rose on a hinged Shower is on this side and not facing directly at the shower door.
2. Penetrations through Acrylic linings for mixer and supply line.
 - The minimum requirement is to fully seal around fittings in wall and face plate sealing as per each specific design.
 - The preferred method is fitting a cavity wall protector that will retain a leak and discharge out the bottom of the face plate. This complies with E3/AS2.
 - Remove the correct access hole in the face plate to comply with the mixer specifications and warranty.
3. Shower Slide Fixing: Drill 2mm holes in liner so the screws have a compression seal. Silicone seal also at this point.



13mm Wallboard versus 10mm Wallboard effects Tray and Waste Positioning

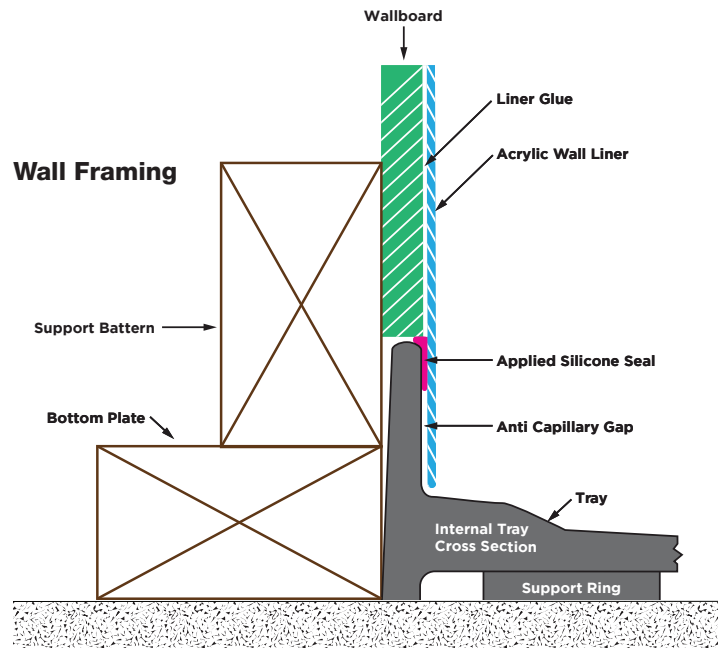
1. The 2-Sided Trays
 - The tray must be packed off the bottom plate by 3mm off each side.
 - Waste position: 3mm extra off the bottom plate each way.
2. 3-Sided Trays
 - Alcove frames must be 6mm wider and 3mm deeper than 10mm Wallboard version.
 - Tray must be packed 3mm off bottom plate on all three sides.
 - Waste position will then align to Tray specs plus 3mm off bottom plate on 3 sides.

WALL BUILD: ACRYLIC TRAYS 2-SIDED & 3-SIDED ALCOVE LAYOUT

Wall Framing to be straight, plumb, 90-degree corners & compliant to current NZS 3604 standards.

Diagram A

2-SIDED TRAY LAYOUT: Standard & Acrylic Plus Trays



3-SIDED TRAY LAYOUT: Standard & Acrylic Plus Trays

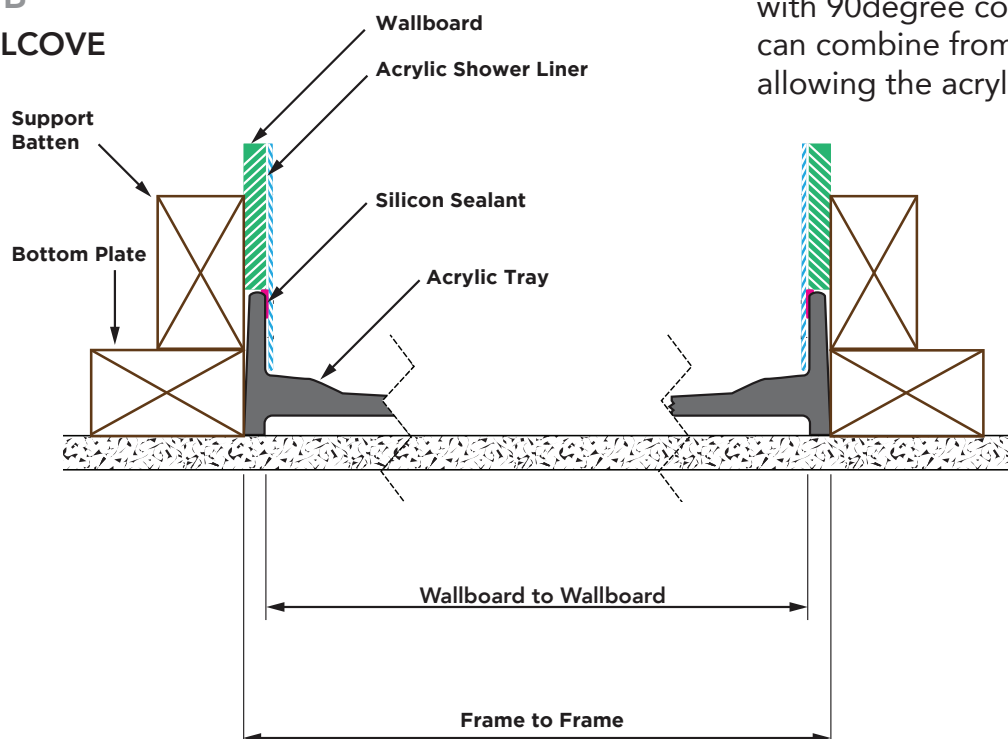
TABLE 1

Identify actual Width & Depth applicable to your installation

Tray Size	Tray Width +/- 3mm	Frame to Frame	Wallboard to Wallboard
750 x 750	750	750	730
900 x 750	900	900	880
900 x 900	900	900	880
1000 x 1000	1000	1000	980
1200 x 900	1200	1200	1180
1200 x 800	1200	1200	1180

Diagram B

3-SIDED ALCOVE



Special attention for 3-Sided Alcove framing specs

1. The tray dimensions may vary +/- 3mm. This is within the manufacture's tolerance.
2. Bottom plate may have to be rebated to fit tray but the walls must follow Table 1.
3. Walls must be plumb, straight with 90degree corners as errors can combine from two sides not allowing the acrylic liner to fit.

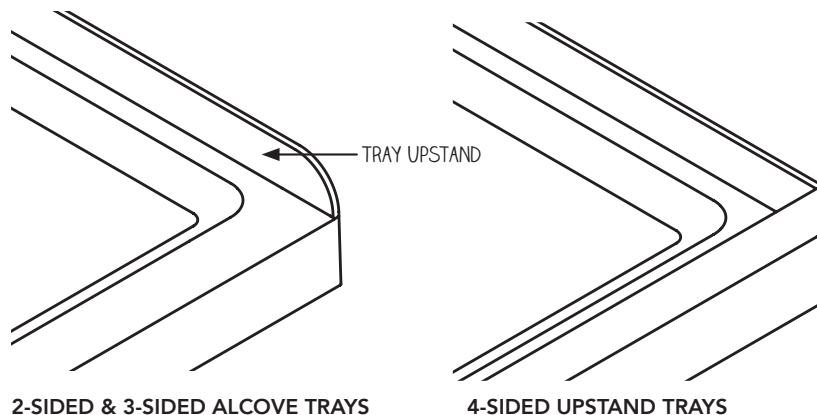
TRAY: ALIGNMENT & BONDING SPECIFICATIONS

Use Page 4 and this page for the scope of Tray alignment and processes

STEP 1

- Peel protective film off the tray and check there are no defects. Cut and tape down a section of the tray box to protect the surface during installation and stop any item going down the drain.
- Fit up tray. Upstand is at least 1 mm to 1.5mm under the final outside Gib or Vilaboard cladding line. Trim a little off the framing if required (Diagram A, Page 4).

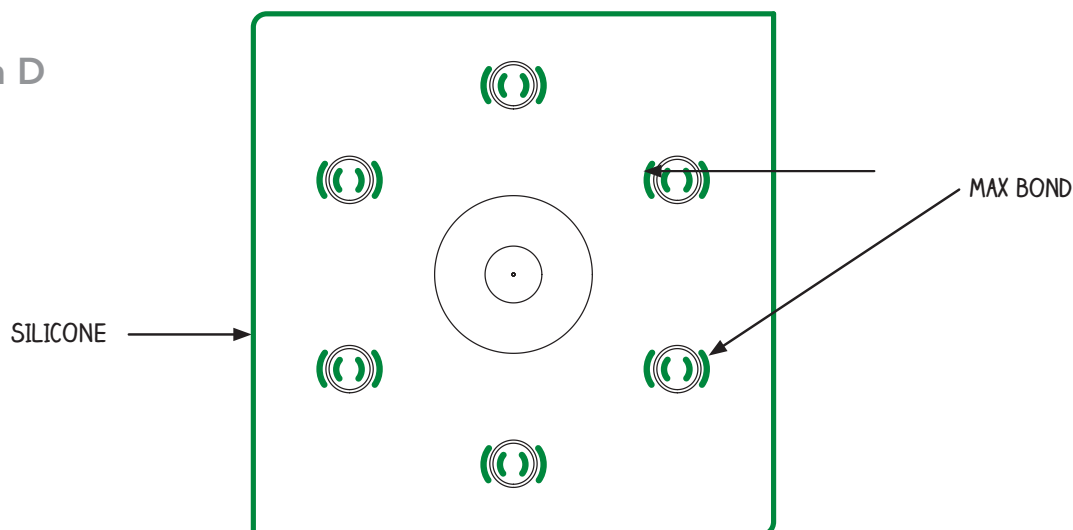
Diagram C



STEP 2:

- Glue the tray down with Maxbond at the rings underneath. Apply a small seal of silicone underneath the outside edge and place and hold the tray in position against the wall framing and with a little downward weight. **NOTE:** The Maxbond is best applied on the inside and outside of the rings, 50mm long on opposite sides as shown in the below diagram. Use sufficient glue to slump to floor when placed the right way up. Do not stand on tray for 24 hours minimum after installation.
- Connect the Easy Clean waste, as per fitting instructions.

Diagram D



ACRYLIC LINER: FITTING & BONDING SPECIFICATIONS

Install Wall Liner

- Position liner on the wall with the inner corner first and working out from there.
- From the inside corner apply pressure with a roller or shaped board covered in soft material and work across the surface to flatten out the glue. Brace any area that maybe required and take specific attention to the area of the horizontal glue line. Leave bracing in place for 12 hrs.

Acrylic Mould Details

- Apply pressure around the detailing of this mould to ensure it is against the wall board.
- **IMPORTANT!** If installing a corner moulding, the glass shelves must be fitted when liner is in place to compress the glue so the glass fits.

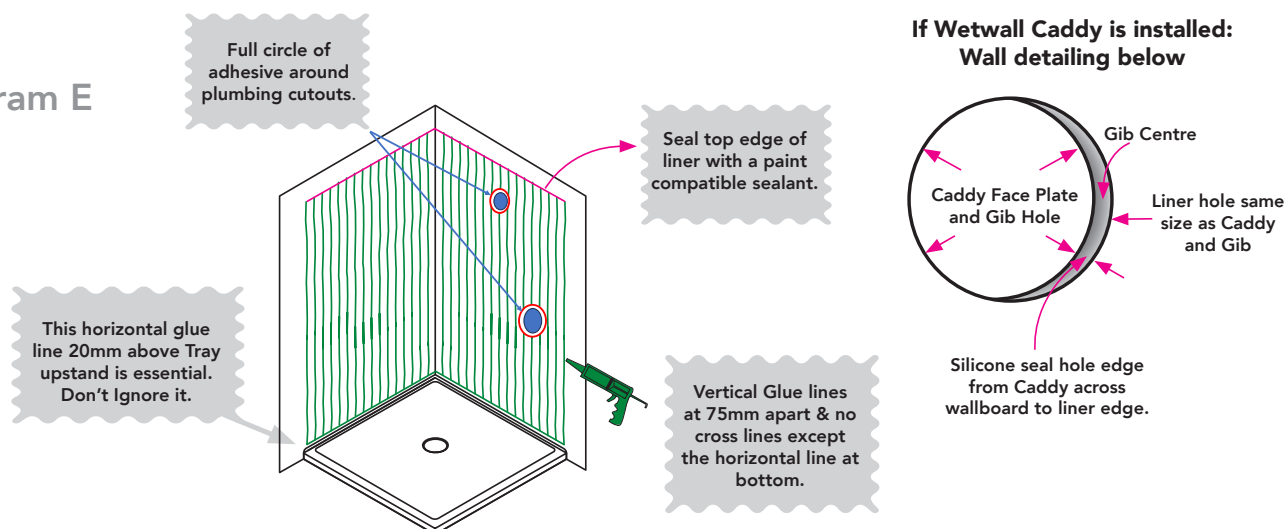
ACRYLIC LINER: FITTING & BONDING SPECIFICATIONS

Page 4 and 5 along with this page show the scope of Liner fit and processes.

Marking Out

- Stand the liner into position and check lower edge for fit to tray and if needed trim lower edge with a sharp plane. **Note: Re 4-Sided Upstand Trays:** Notch the liner at outside bottom to fit into tray.
- With a soft pencil or masking tape, spot the outside boundary of the liner.
- Measure all plumbing penetrations through the wall. Transfer these to the liner and drill with a hole saw.
- Mark out the glue pattern on the wall, 30mm in from the perimeter and at 75mm apart in vertical lines. Also one horizontal line 20mm above the acrylic tray.

Diagram E

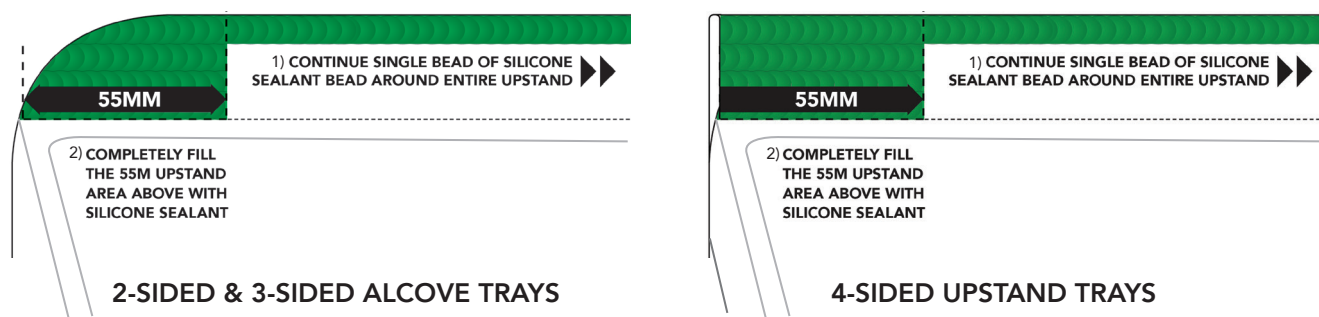


Bonding/Sealing

- Apply a Silicone bead around the upstand of the Acrylic Tray with sufficient build past the GIB outer surface to ensure a seal to the acrylic liner (Diagram A, Page 4)
- The outer 55mm requires a full build of Silicone (Diagram F).
- Follow through quickly and apply showerbond to marked lines. If installing a moulded liner apply glue to the adhering face of the mould edges also.

SILICONE SPECS: Neutral Cure, Mould Resistant, Adhesion to Acrylic & ABS plastics.

Diagram F



Install Wall Liner

- Position liner on the wall with the inner corner first and working out from there.
- From the inside corner apply pressure with a roller or shaped board covered in soft material and work across the surface to flatten out the glue. Brace any area that maybe required and take specific attention to the area of the horizontal glue line. Leave bracing in place for 12 hrs.

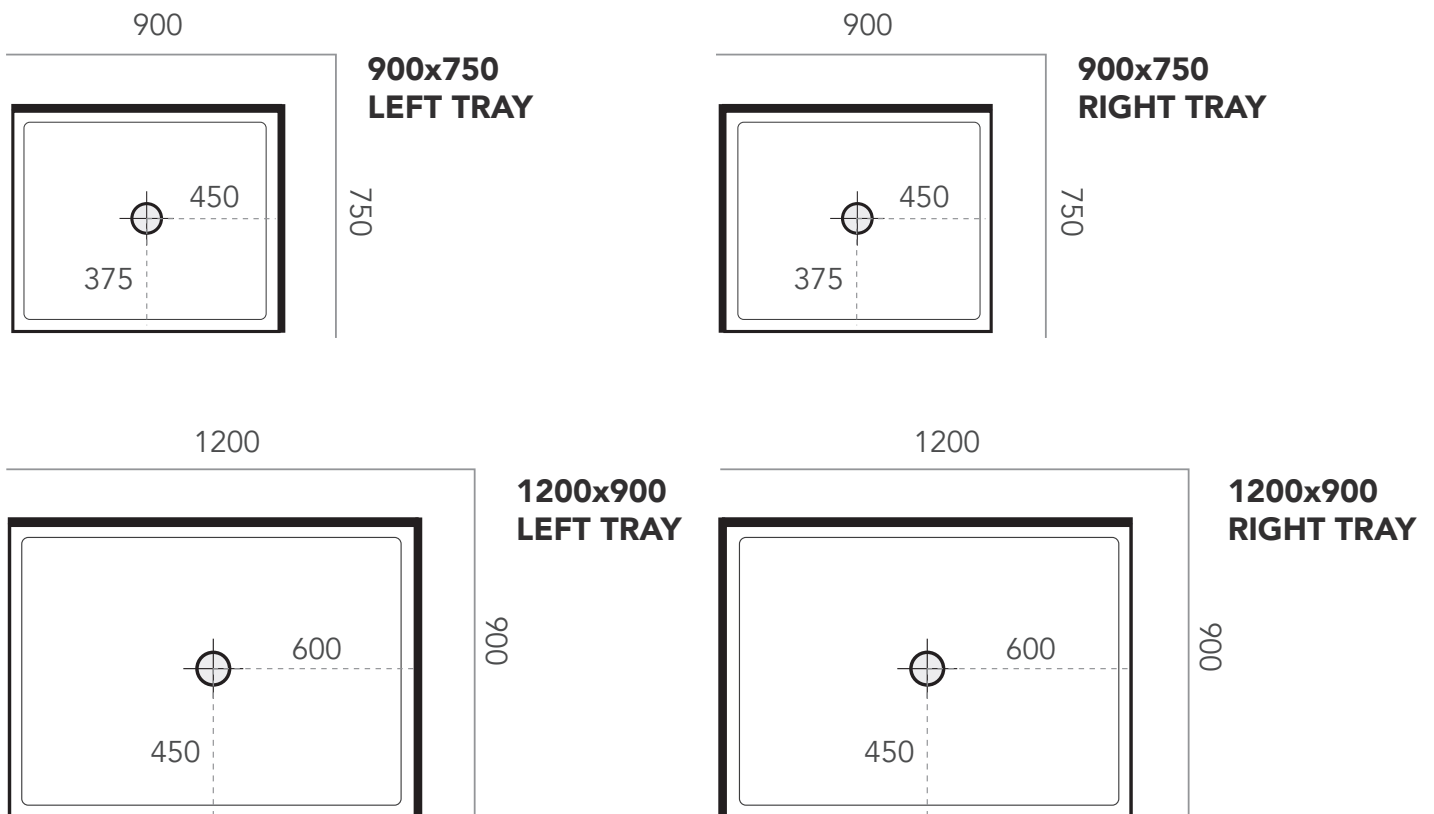
Acrylic Mould Details

- Apply pressure around the detailing of this mould to ensure it is against the wall board.
- IMPORTANT!** If installing a corner moulding, the glass shelves must be fitted when liner is in place to compress the glue so the glass fits.

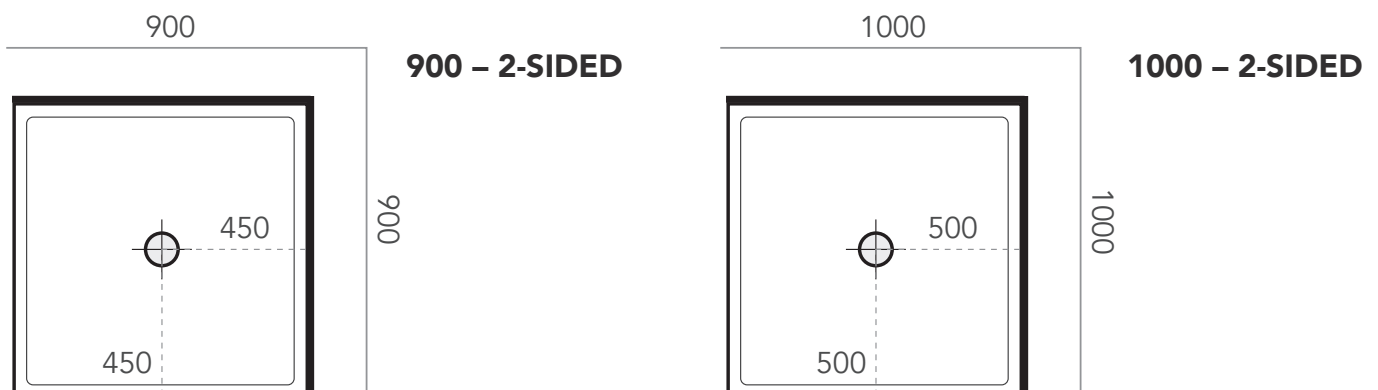
Acrylic Tray Overview

Trays dimensions may vary +/-3mm. This is within manufacturers tolerance. Variations are usually not noticed apart from 3-Sided Alcove may require a small rebating of the frame if tray is too tight.

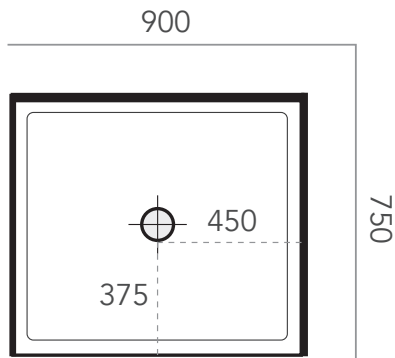
2-SIDED RECTANGLE



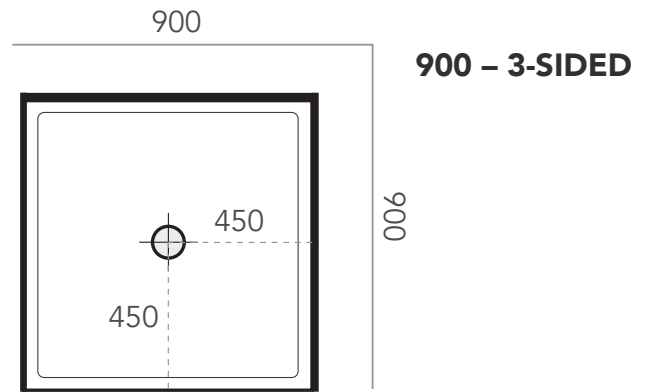
2-SIDED SQUARE



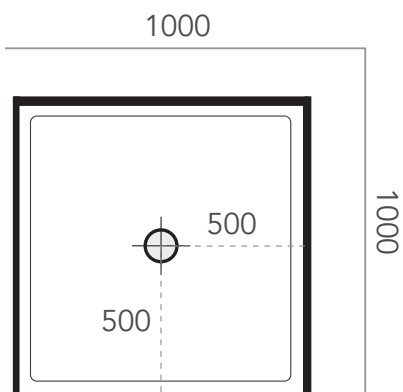
3-SIDED ALCOVE



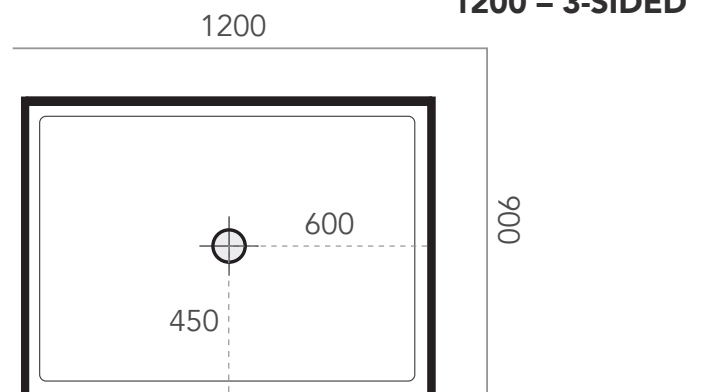
900x750 – 3-SIDED



900 – 3-SIDED

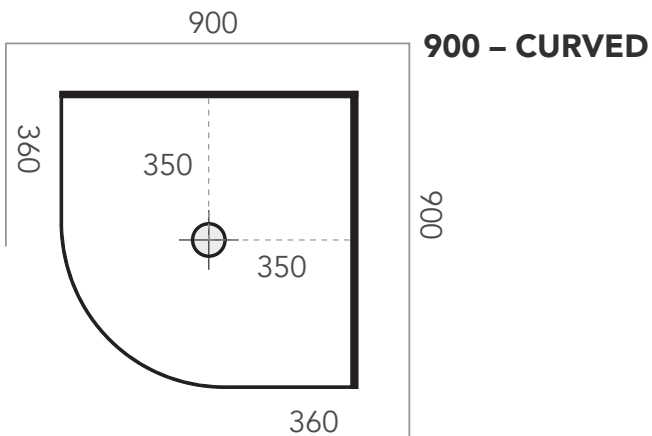


1000 – 3-SIDED

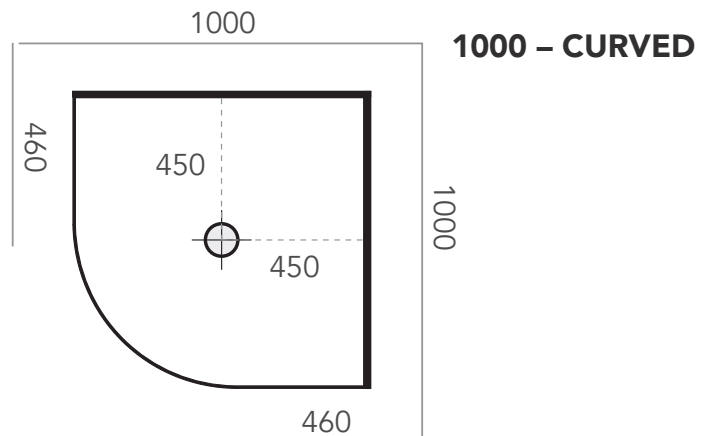


1200 – 3-SIDED

CURVED

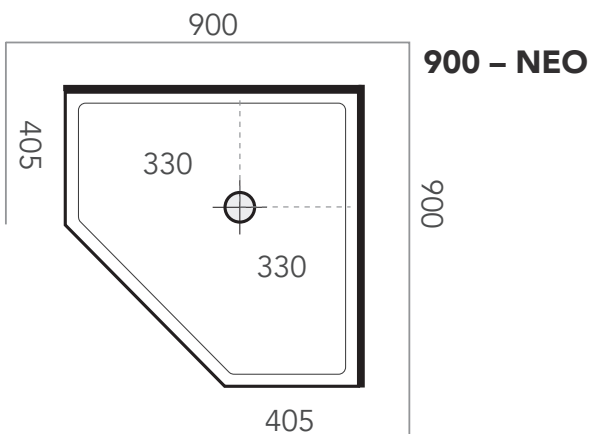


900 – CURVED

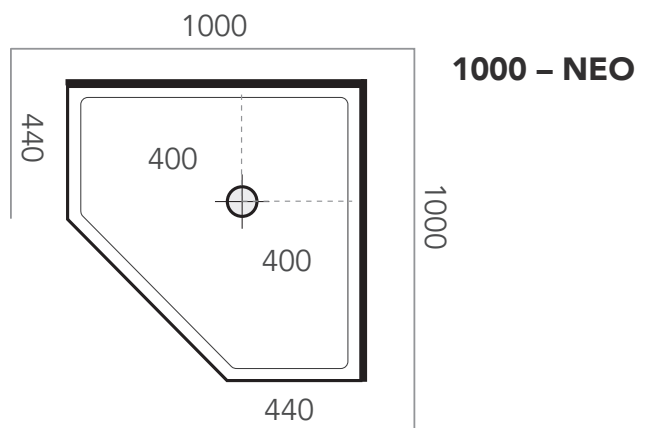


1000 – CURVED

NEO ANGLE

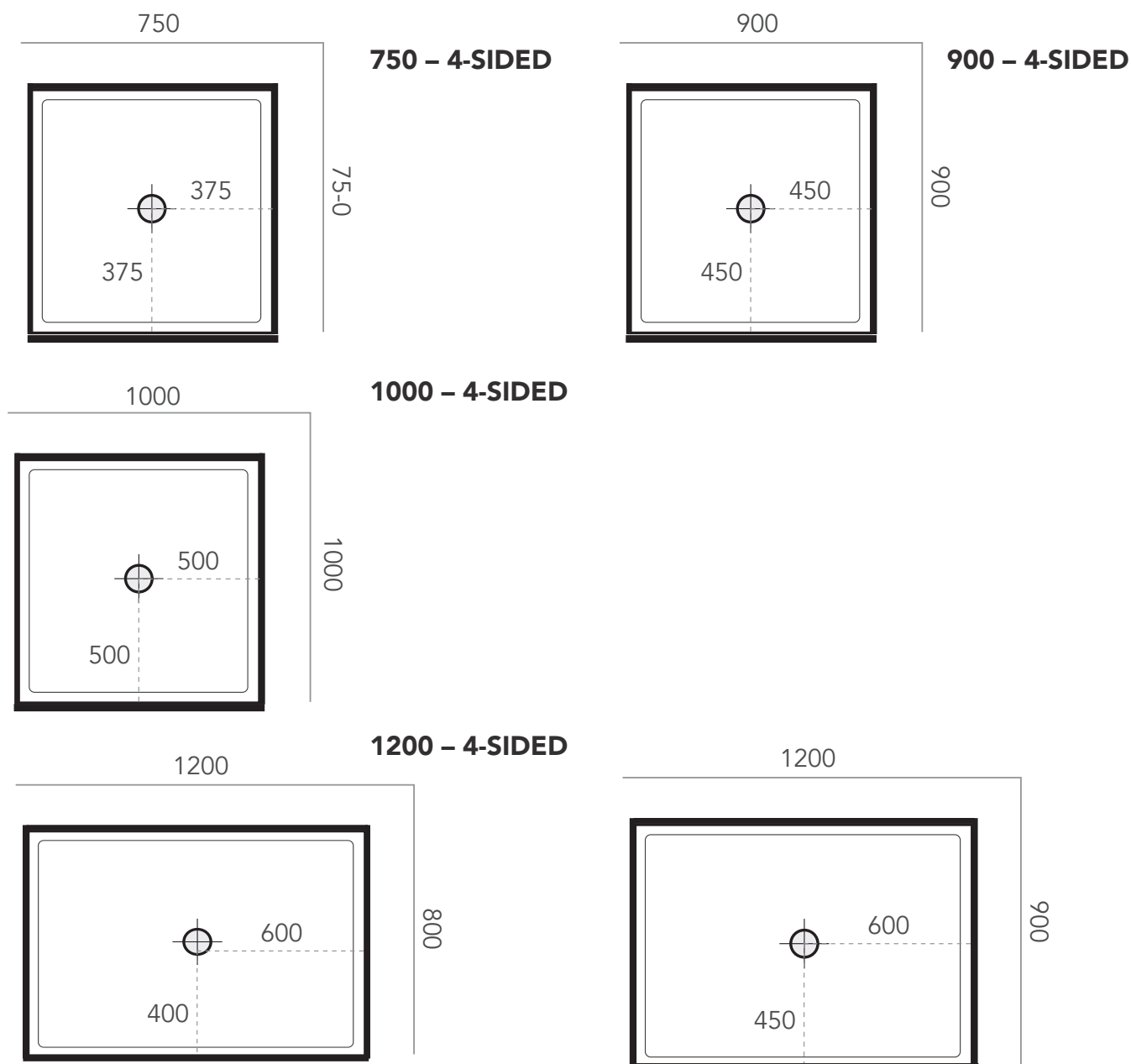


900 – NEO

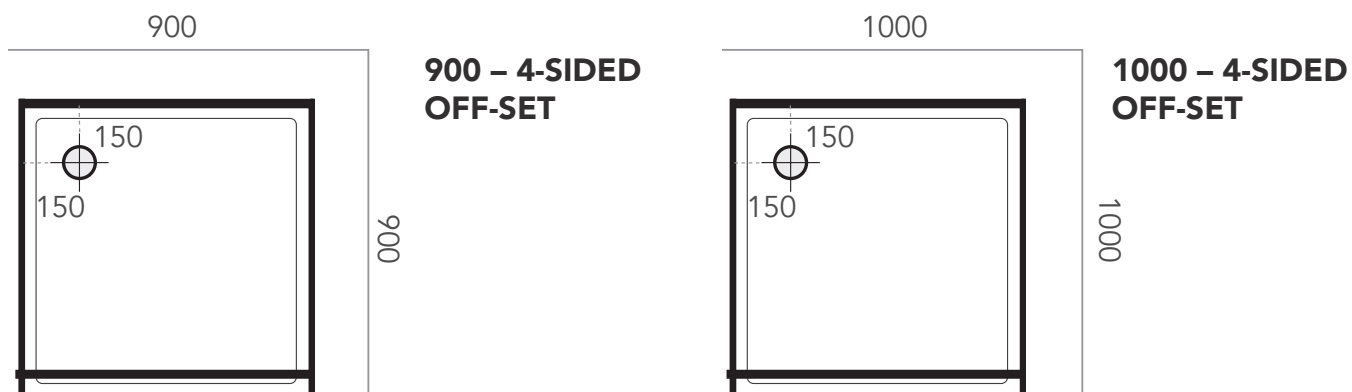


1000 – NEO

4-SIDED CENTRE WASTE



4-SIDED OFFSET WASTE



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