

Building Preparation | Plumbing

NZ Building Code Compliance

Tray & Liner Specifications

CATEGORIES

Standard Trays • Acrylic Plus Trays • Low Profile Trays

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CONTACT



Important!

1. When you receive your Acrylic Tray and Liner, check that they are the correct type, size, and free of freight damage or any other defect.
2. Advise Newline on 0508 639 5463 if any damage has occurred within 8 hours of receiving goods so this can be rectified.
3. It is essential that items 1 and 2 are followed as installation of incorrect or damaged product will void a warranty cover.

WARRANTY

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

HEALTH AND 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 tray fully up to 100mm off the waste position.

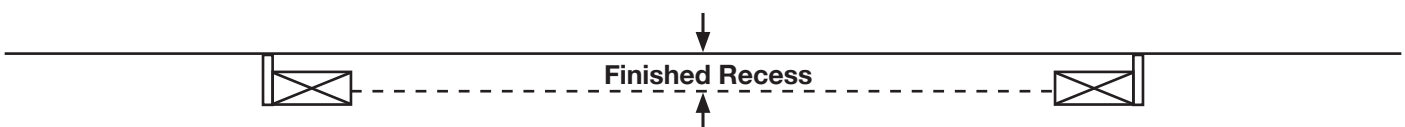
CONCRETE FLOOR CONSTRUCTION

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

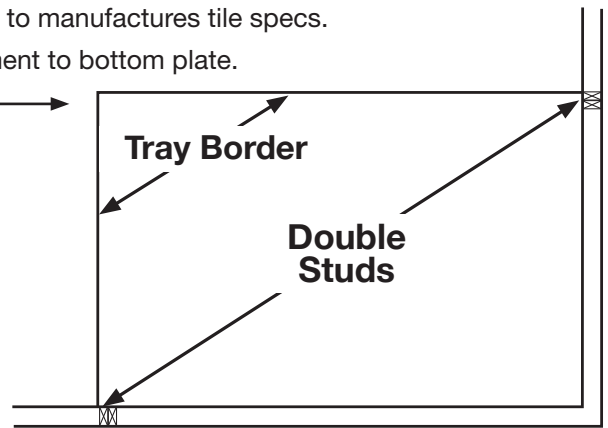
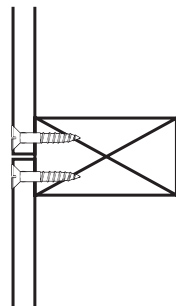
1. Build the sides of recess with tile adhesive to Tray size. Firstly, ensuring alignment against the bottom plate on the wall sides.
2. The plumber to secure the waste in position and at the specified tray depth.
3. Floor leveling compound is then used to level up to depth.

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 tile 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 joints must be fastened to framing with no stopping.

No Exceptions!



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

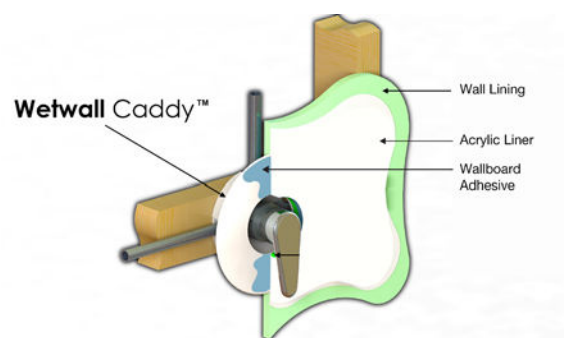


NOTE: No paint or stopping more than 30mm in past the shower outline. If this has been overlooked, delamination will occur on painted walls & adhesion to stopping is very weak. Extra adhesive costs and changes to preparation apply.

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 face plate to comply with 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 3mm each way.
2. 3-Sided Trays
 - Alcove frames must be 6mm wider and 3mm deeper than 10mm Wallboard.
 - 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: Standard & Acrylic Plus Trays 2-Sided & 3-Sided Alcove

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

2-SIDED TRAY LAYOUT: Standard & Acrylic Plus Trays

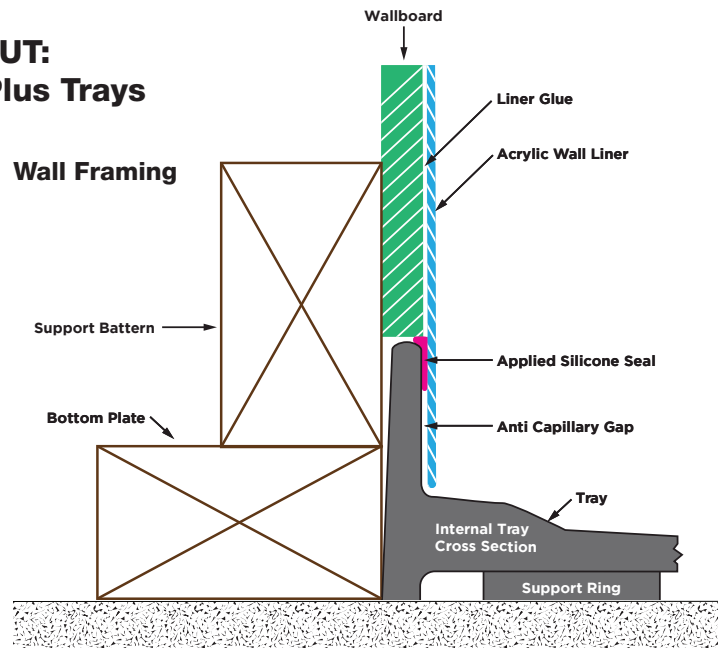


Diagram A

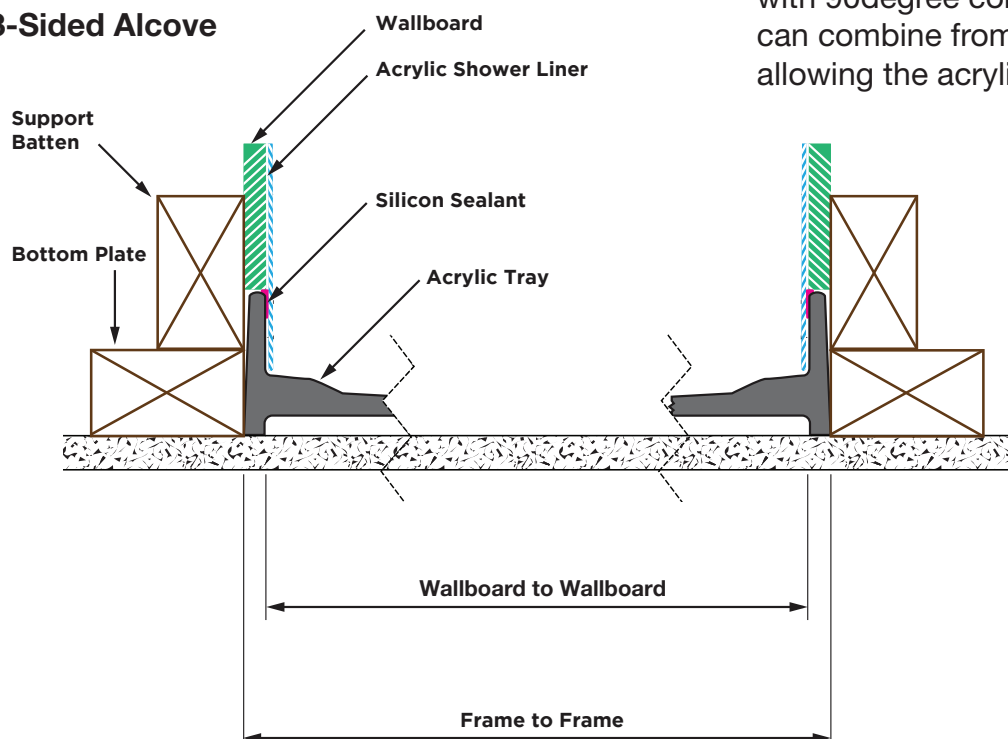
3-SIDED TRAY LAYOUT: Standard & Acrylic Plus Trays

TABLE 1

Identify actual Width & Depth applicable to your installation

Tray Size	Tray Width +/-3mm	Frame to Frame	Wallboard to Wallboard
900 x 750	900	900	880
900 x 900	900	900	880
1000 x 1000	1000	1000	980
1200 x 900	1200	1200	1180
1400 x 900	1400	1400	1380
1600 x 900	1600	1600	1580

Diagram 3-Sided Alcove



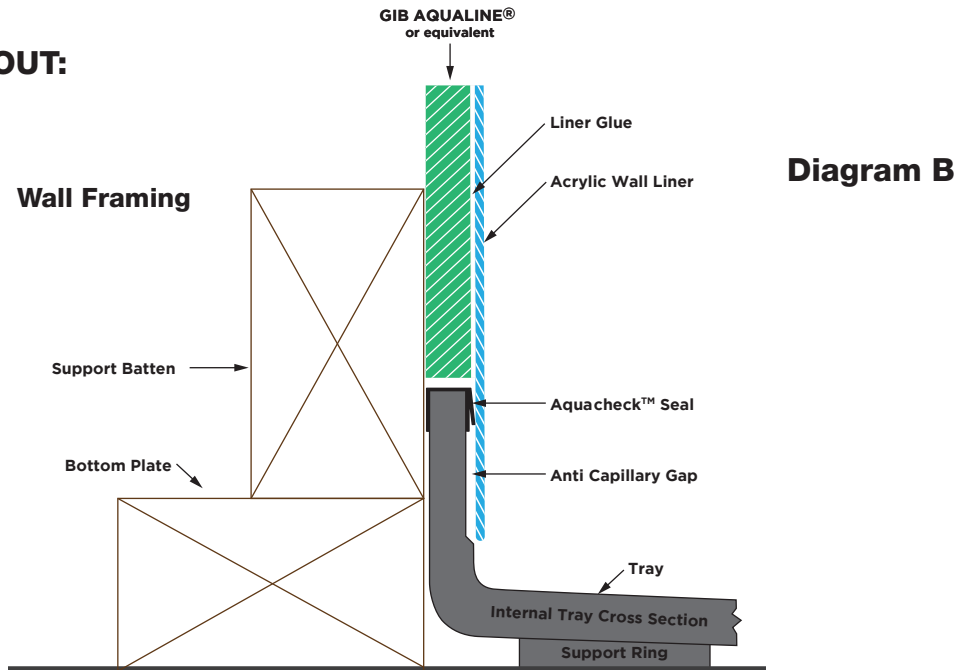
Special attention for 3-Sided Alcove framing specs

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.

WALL BUILD: Low Profile (40mm) Acrylic Trays 2-Sided & 3-Sided Alcove

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

2-SIDED TRAY LAYOUT: Low Profile Acrylic



3-SIDED TRAY LAYOUT: Low Profile Acrylic

TABLE 2

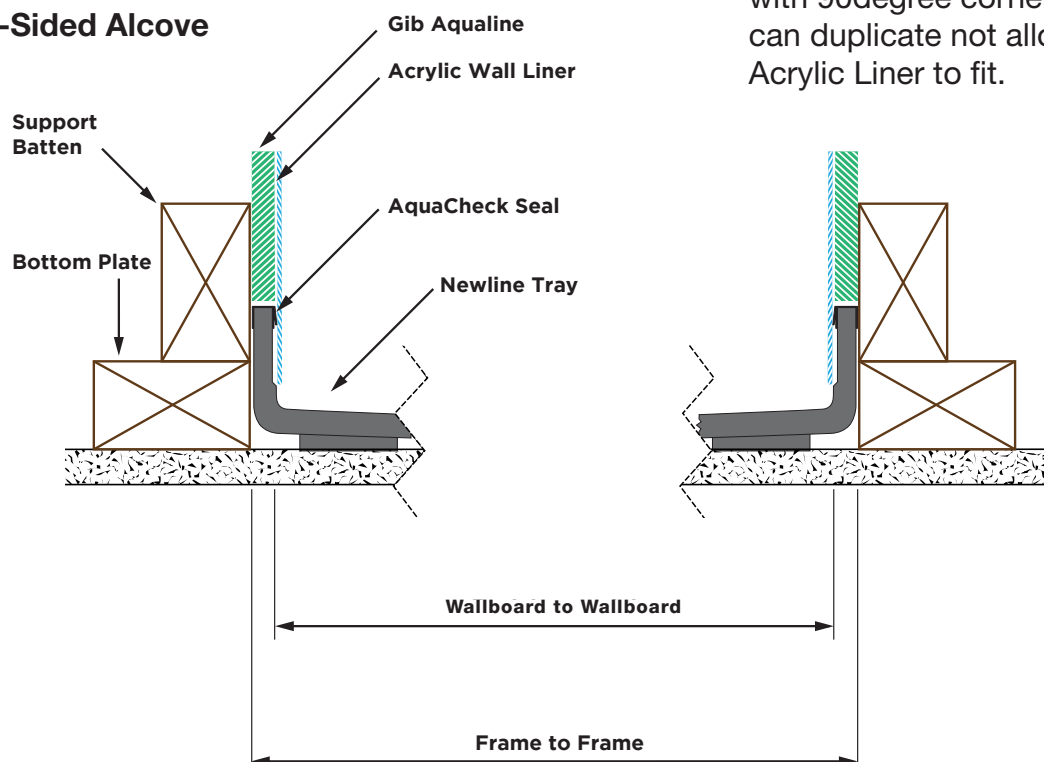
Identify actual Width & Depth applicable to your installation

Tray Size	Tray Width +/-3mm	Frame to Frame	Wallboard to Wallboard
810 x 810	810	810	790
900 x 900	900	900	880
1000 x 1000	1000	1000	980
1200 x 915	1200	1202	1182

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 duplicate not allowing the Acrylic Liner to fit.

Diagram 3-Sided Alcove



ACRYLIC TRAY: Alignment and Bonding Specs

Identify the acrylic tray category you are using from either page 4 or 5 and the layout alignment that applies. This page outlines the tray bonding specifications.

The Low Profile Trays are only 40mm high and Standard are 70mm

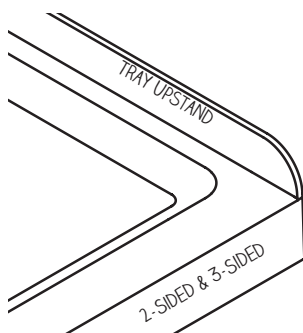
Step 1

- Peel the protective film off the tray, check there is no defects, cut and tape down a section of the Tray Box to protect the surface during installation.
- From page 4 (Standard Tray) or 5 (Low Profile Tray) align the tray up to the wall frame and check the acrylic liner will clear the outside of Tray upstand by a min of 1mm. Trim any framing that is holding the tray out of correct position. Special attention must be given to the 3-Sided specs as outlined in page 4 & 5.

Step 2

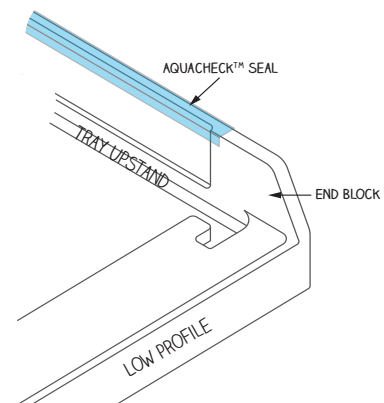
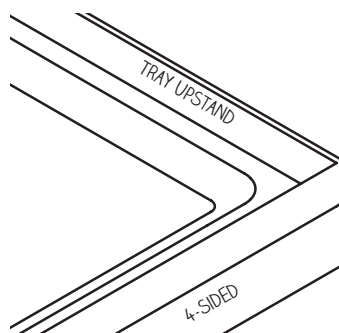
- Glue the tray down with Maxbond at the rings underneath. Apply a small seal of silicone underneath the outside edge and place and hold the tray in position against the wall framing and with a little downward weight. NOTE: The Maxbond is best applied on the inside and outside of the rings, 50mm long 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 C



STANDARD TRAY CATEGORIES

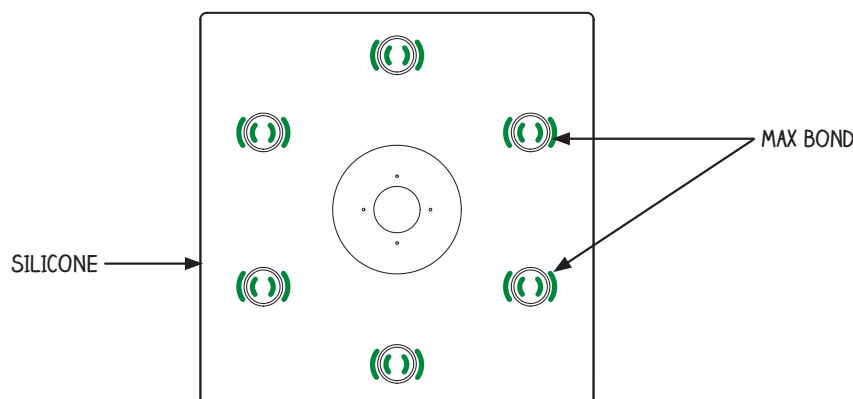
Drawings pages 8, 9, & 10



LOW PROFILE TRAY CATEGORIES

Drawings pages 11, 12, & 13

Diagram D

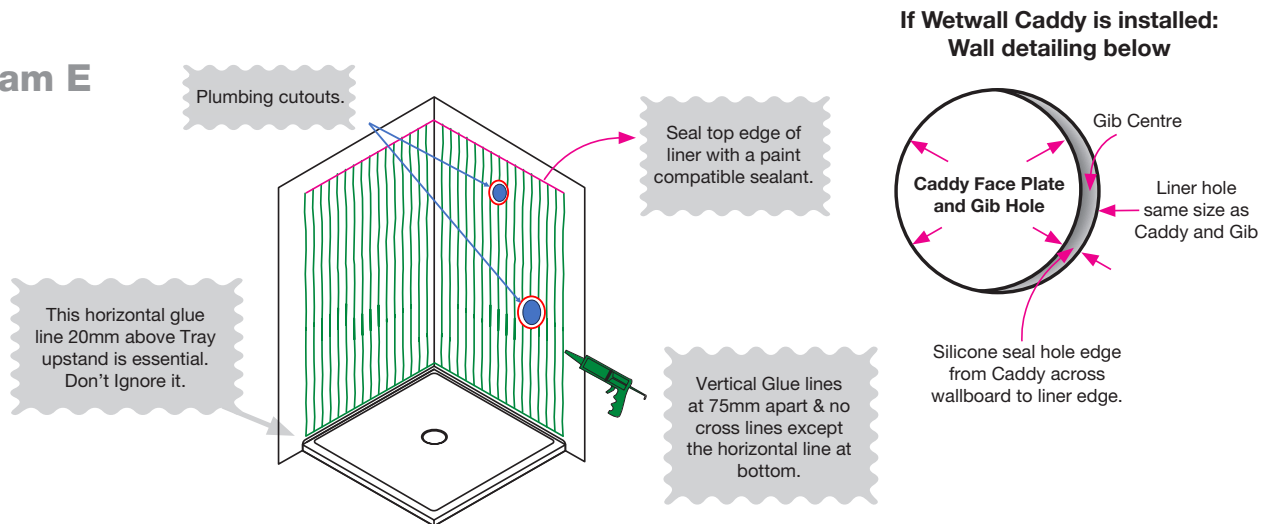


ACRYLIC LINER: Fitting, Sealing, and Bonding Specs

Fitting

- 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 fittings on 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



Sealing & Bonding

Standard & Low Profile Trays have different sealing detail to Acrylic Liners.

Standard Trays: Continuous bead of silicone with build to fully seal to liner (Diagram F).

Low Profile Trays: The Aquacheck seal on the top edge of the upstand provides this seal (Diagram G).

Both Types of Trays: A full silicone build at outer end of tray is most important (Diagram F and G).

Bonding of Liner to Wallboard: Quickly apply Shower Bond adhesive to marked lines. If installing a moulded liner, apply glue to the adhering face of the of moulding as extra support.

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

ACRYLIC TRAY TYPES

Diagram F

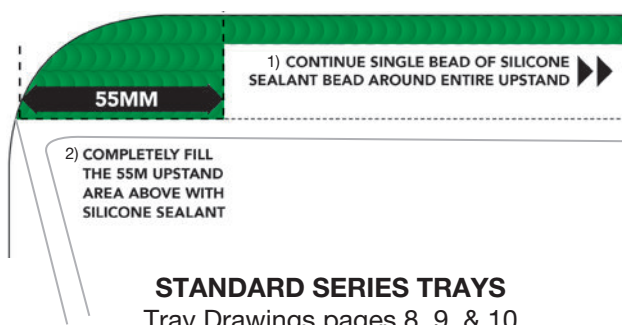
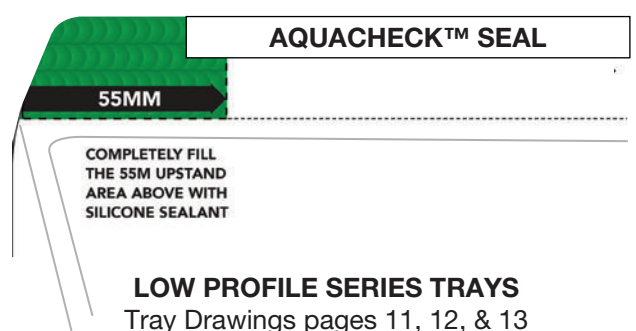


Diagram G



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.

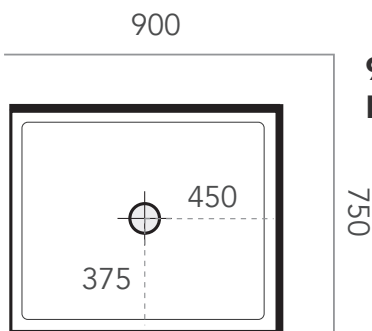
Acrylic Mould Details

- 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.

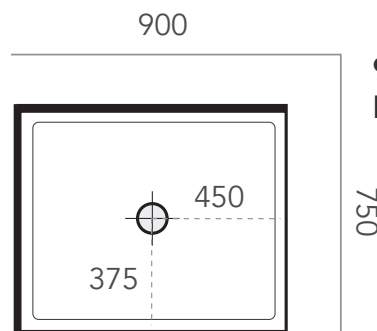
Acrylic Tray Overview

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.

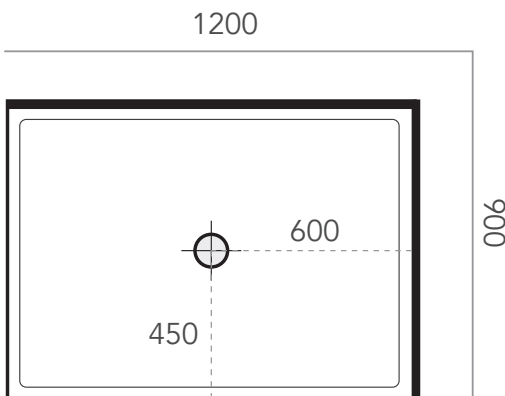
2-Sided Rectangle



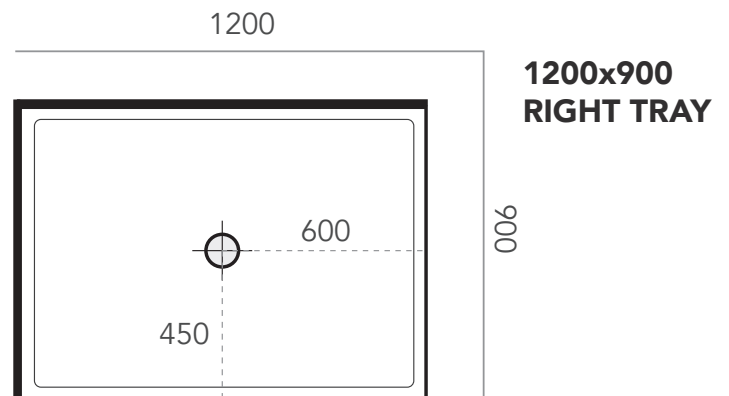
**900x750
LEFT TRAY**



**900x750
RIGHT TRAY**

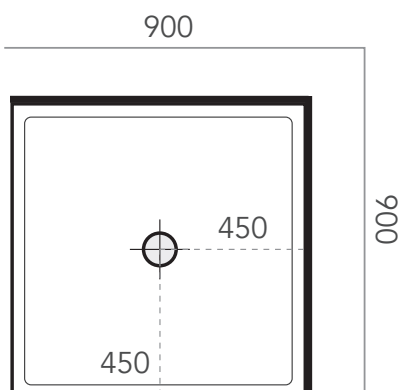


**1200x900
LEFT TRAY**

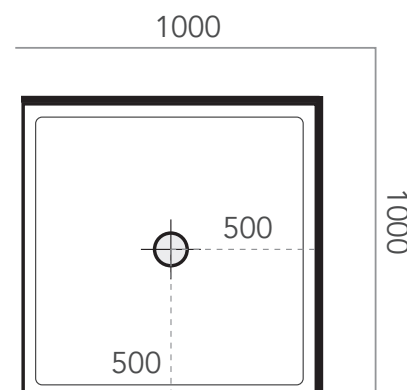


**1200x900
RIGHT TRAY**

2-Sided Square



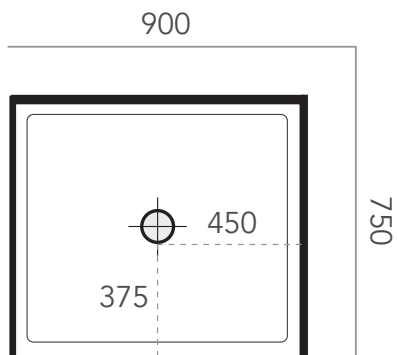
900 – 2-SIDED



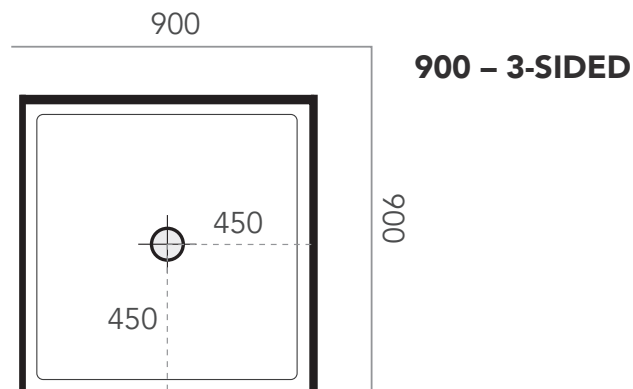
1000 – 2-SIDED

3-Sided Alcove

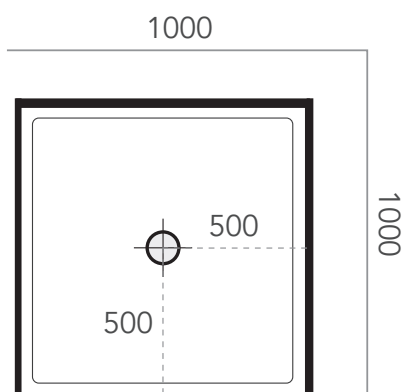
Standard Trays continued...



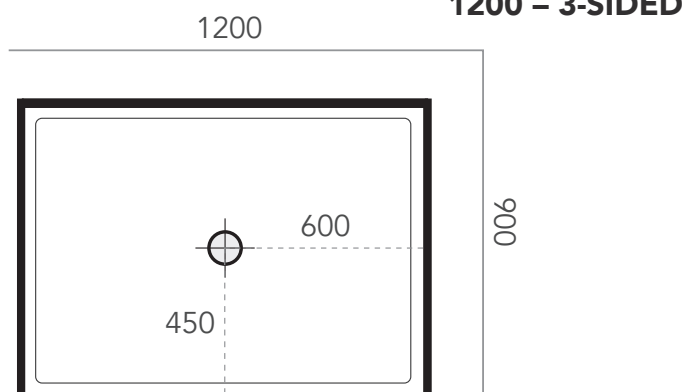
900x750 – 3-SIDED



900 – 3-SIDED

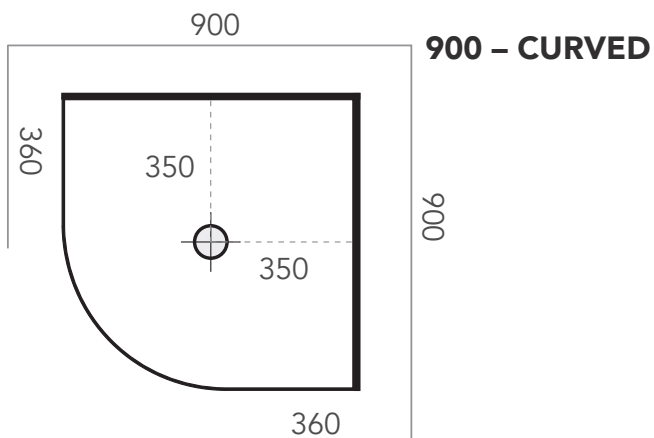


1000 – 3-SIDED

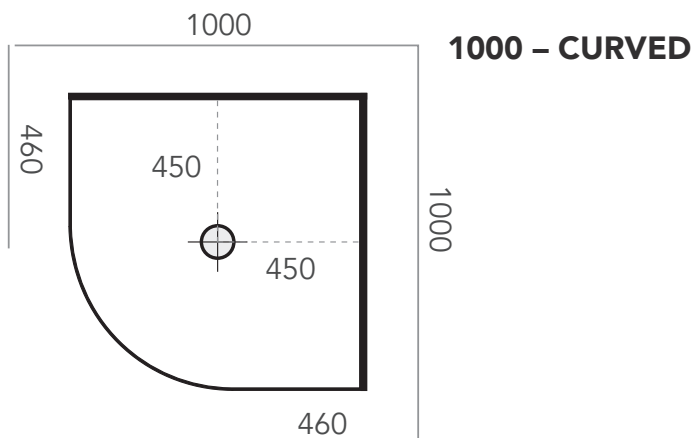


1200 – 3-SIDED

Curved

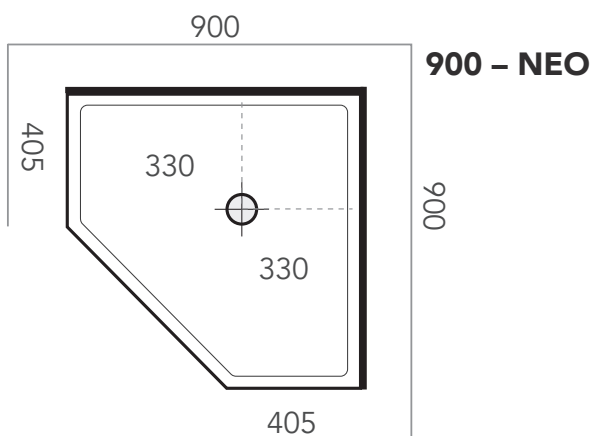


900 – CURVED

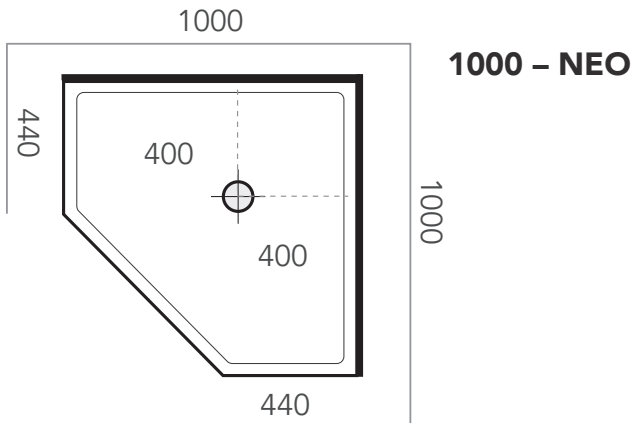


1000 – CURVED

Neo Angle



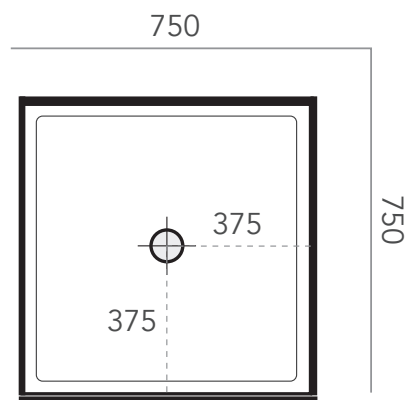
900 – NEO



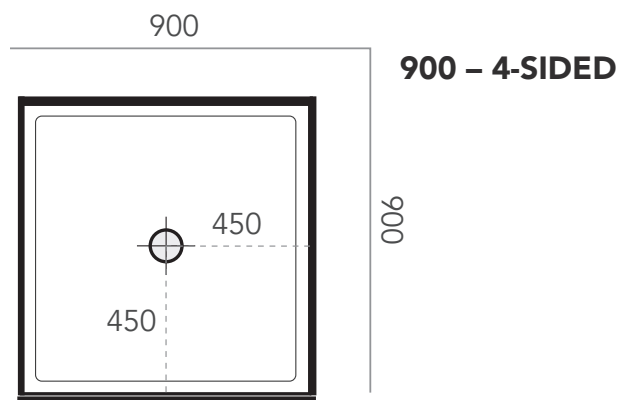
1000 – NEO

4-Sided Centre Waste

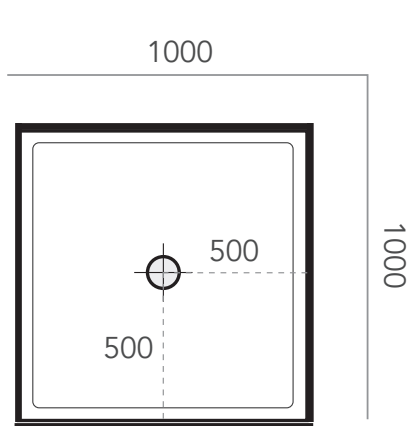
Standard Trays continued...



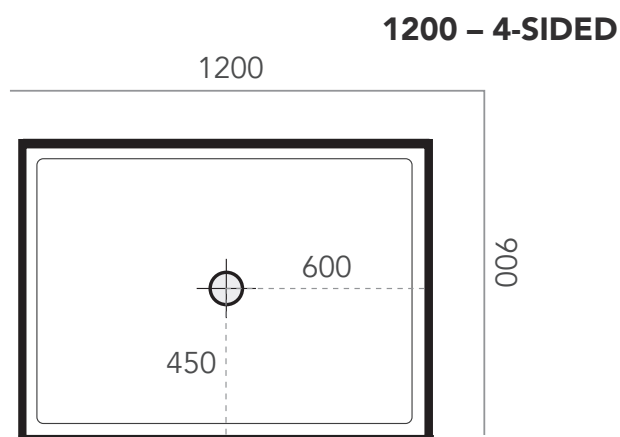
750 – 4-SIDED



900 – 4-SIDED

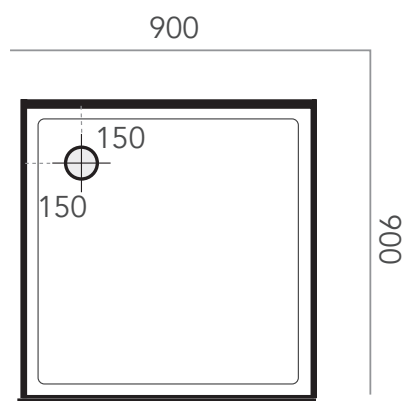


1000 – 4-SIDED

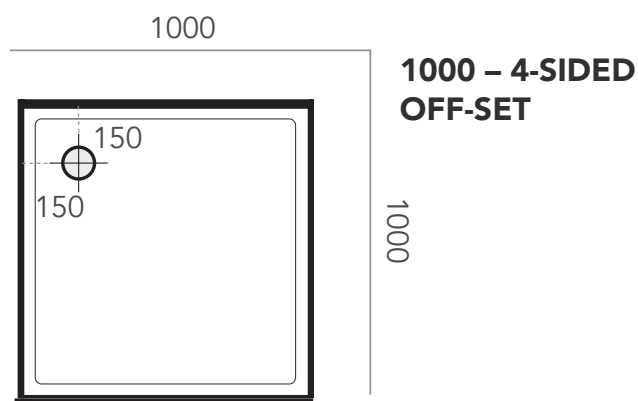


1200 – 4-SIDED

4-Sided Offset Waste



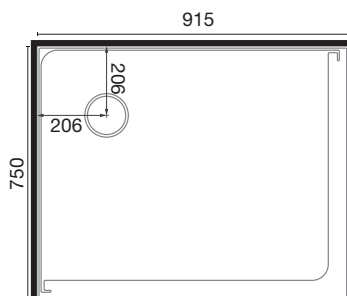
**900 – 4-SIDED
OFF-SET**



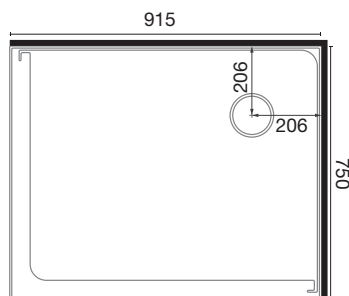
**1000 – 4-SIDED
OFF-SET**

2-Sided Rectangle Trays

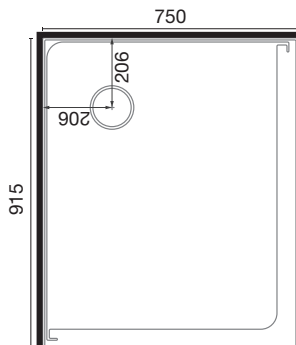
915x750 LH 2-SIDED



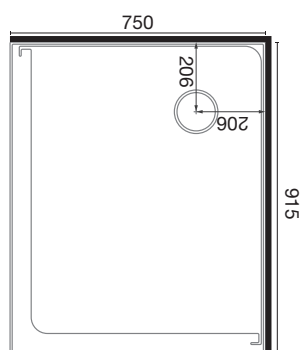
915x750 RH 2-SIDED



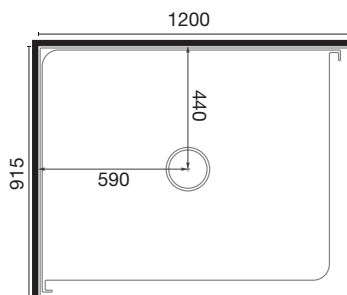
750x915 LH 2-SIDED



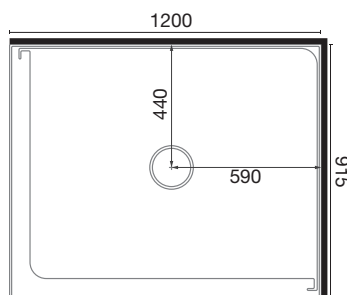
750x915 RH 2-SIDED



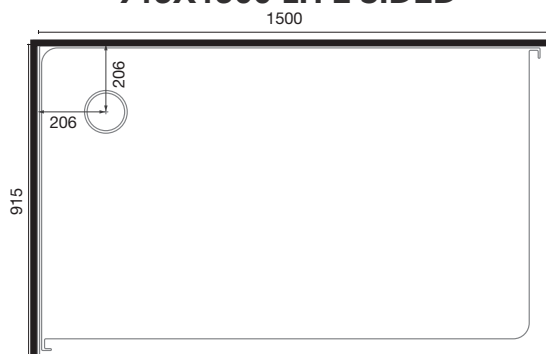
915x1200 LH 2-SIDED



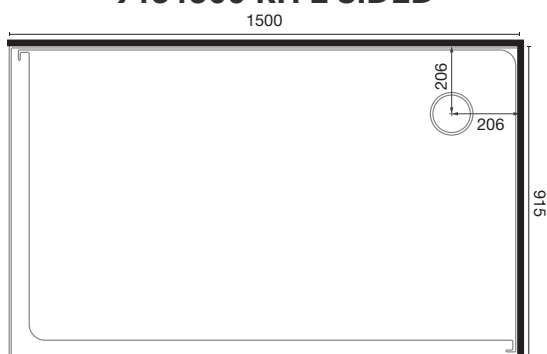
915x1200 RH 2-SIDED



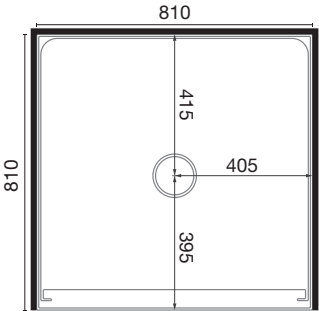
915X1500 LH 2-SIDED



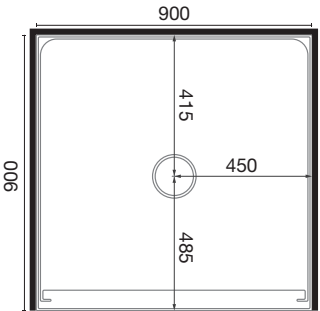
9151500 RH 2-SIDED



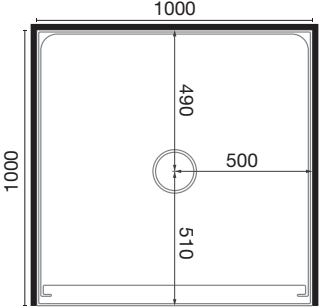
810x810 3-SIDED



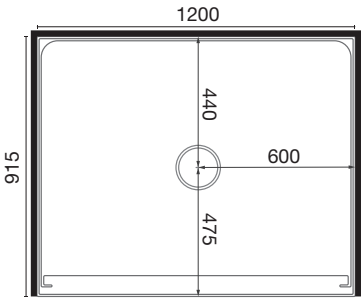
900x900 3-SIDED



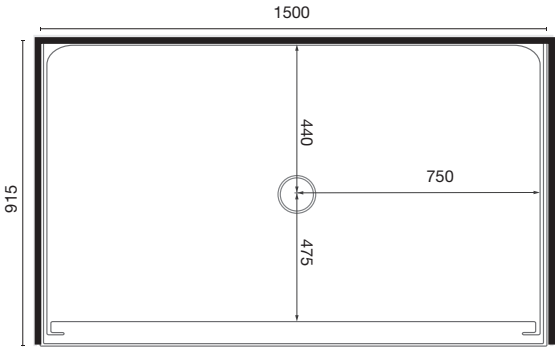
1000x1000 3-SIDED



1200x915 3-SIDED



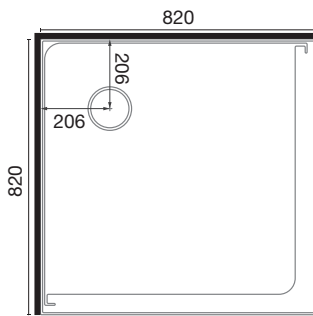
1500x915 3-SIDED



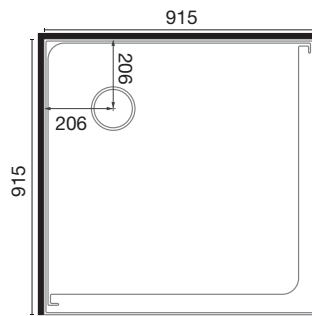
2-Sided Square Trays

Low Profile Trays continued...

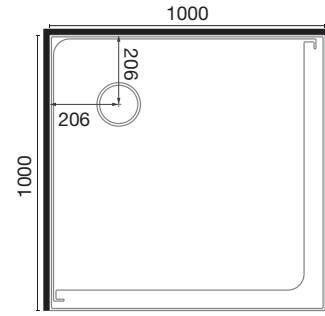
820x820 2-SIDED



915x915 2-SIDED

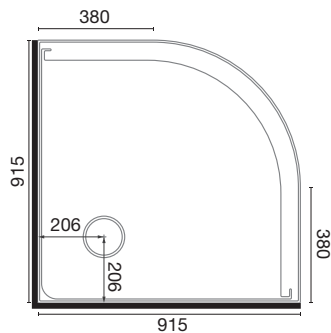


1000x1000 2-SIDED

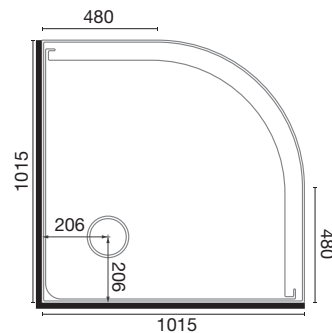


Curved Trays

915x915 CURVED

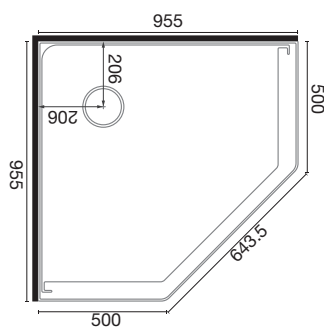


1015x1015 CURVED

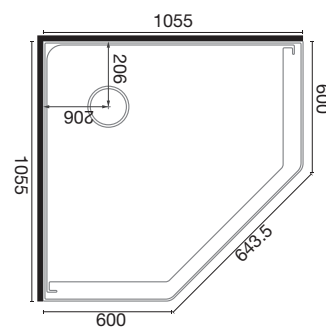


Neo Angle Trays

955x955 NEO



1055x1055 NEO



CONTACT

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