

Important!

1. When you receive your Channel Drain Kit check that the size is correct and is free of freight damage.
2. Advise Newline 0508 639 5463 of any fault within 12 hours of receiving goods.
3. Any installation of incorrect or damaged product will invalidate later claims.

Warranty

Faulty goods are covered under warranty. Visit www.newline.nz for details on this. Hot water supply must be fitted with a tempering valve with a maximum of 55 Degrees Celsius. Installation must comply with instructions to be valid.

Underfloor Heating

Any heating system in the floor must have a regulated concrete temperature under 25 degrees and a fail-safe monitor to shut down the system in the case of a malfunction. Electric heaters on the surface are not recommended due to much higher surface temperatures.

It is important to check with the waterproofing and tile adhesive supplier on suitability of a heating system used within the shower area.

! Health and Safety

Determine location of wiring and piping that could be damaged in construction and be life threatening to personnel. This relates to walls or underfloor heating system.

Wear protective equipment and clothing suitable to the tasks undertaken.

Check Material Data Sheets. Ventilate rooms if using glue or waterproofing that the MDS indicates.

Component Package List

A: Waste flange fitting (Leak control)	E: Shaped channel drain support packers LH & RH
B: Dropper Pipe and 2 discharge bends	F: Wedge ProFinish Tray (from the diagram identify our specific tray)
C: Template: To establish waste, channel drain and ProFinish positioning	G: Glue to bond the tray with Maxibond
D: Newline stainless steel channel drain assembly	

Tiling Outline

Shower Enclosure Tile Requirements

1. Tiles installed should not exceed 6 percent water absorption as NZ Building Code - Clause E3 Internal Moisture.
2. Thin tiles risk breakage, consequential failure of the surface and waterproofing. Alignment of the tile slope to 2mm above the channel drain cannot be achieved with thin tiles (Diagram C).
3. Small dimension tiles are not acceptable due to greatly multiplied joints/grout lines, reducing essential surface quality, along with increased point loadings.

Tile installation*

- Accredited applicators must use complete systems. Waterproofing, Tile adhesive, Grouting and Silicone detailing for full accountability and reliable outcomes.
- The Notched Trowel lines must be vertical on walls and lead to the waste outlet on floor. Also Notched Trowel must meet the specific system compliance for adhesive coverage.
- Grouting must be applied to manufacturers specs with epoxy grout being the best option.
- All areas that have movement must be silicone sealed, i.e. internal/external corners and where different surfaces meet, i.e. floor to drain fittings.
- The shower enclosure must have a "Water Stop" design to comply with AS3740. This guards against moisture transition under the tile and above the waterproofing (refer to page 7).

Notes: The above tiling installation items have been included to alert the installer to his obligations and are not a specification. Consult your material system supplier for technical advice and industry guidance from TANZ to guarantee the NZ Building Code E3 is adhered to.

Before You Start

- The ProFinish tile tray must not be rebated into the cladding but abutted against the lined wall (refer to walls below for details).
- The Leak control waste flange must be installed into the floor prior to the tile tray being glued in place (reference pages 3 and 4 for details).

Preparation Check list

Walls: These must be plumb and flat

- Framing must provide solid support for the wall channels (30mm back from join for hob tray to floor or centered to the join for level entry tray).
- Use Aqualine Gib cladding or equivalent “wet area” grade to comply to the Building Code and fastened to manufacturer’s specifications for strength and tile loadings.

Floors: These must be level and flat.

Wood Floors

- The flooring substrate options. H3.2 treated Ply (no LOSP treatment), Fibre-cement flooring.
- Framing must be at 400mm maximum in both directions to establish rigidity.
- Floor levelling compound maybe required to level up.
- When fitting ProFinish Tile Trays to timber floors we recommend the use of Hardies Slate Tile underlay fastened as per their specifications.

Concrete Floors

- Structural integrity, level with a flat surface. Paint or sealant on the surface must be removed to gain an absorbent surface.
- Floor levelling compound or grinding maybe required to level up.
- If the concrete pour or a plaster screed has recently been laid the moisture content must be tested. To arrive at the relative humidity, 75% is the maximum permissible. Remedial treatment must be done if too high.

Plumbing

- The plumber must be given the LH and RH options for the waste position from the template as included in the wedge package.
- All plumbing must be installed by a licenced plumber. The mixer or tap fittings must be sealed at entry through the wall.

Tiles

- The floor tile thickness is important to have correct alignment to channel drain (refer to Diagram C page 4).

Waterproofing

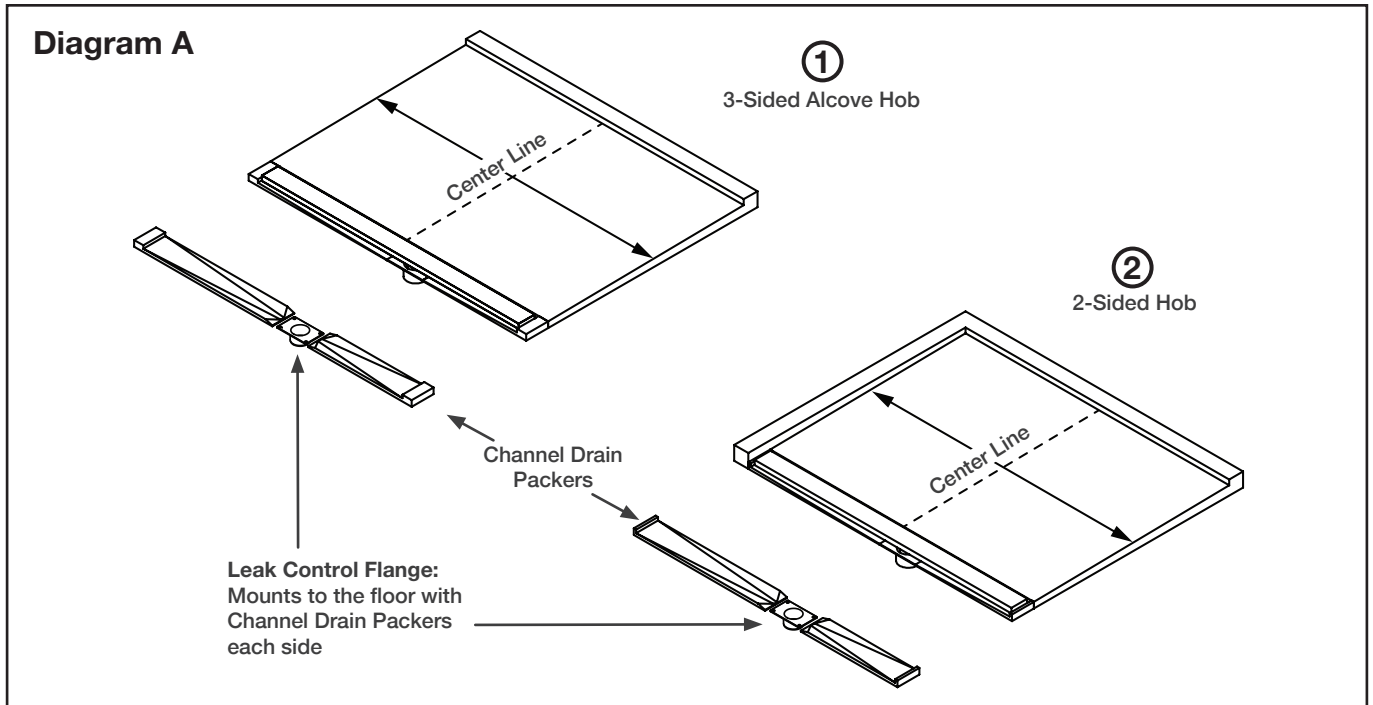
- Refer to back page for waterproofing guidance.

Installation Steps: Plumbers Guide - Waste Location

Positioning of Channel Drain: Leak Control Waste Outlet

STEP 1

- Ensure you know the design of the tray to be installed.
- Exclude any hob or sill on either side of the sloped tray and mark the centre line.

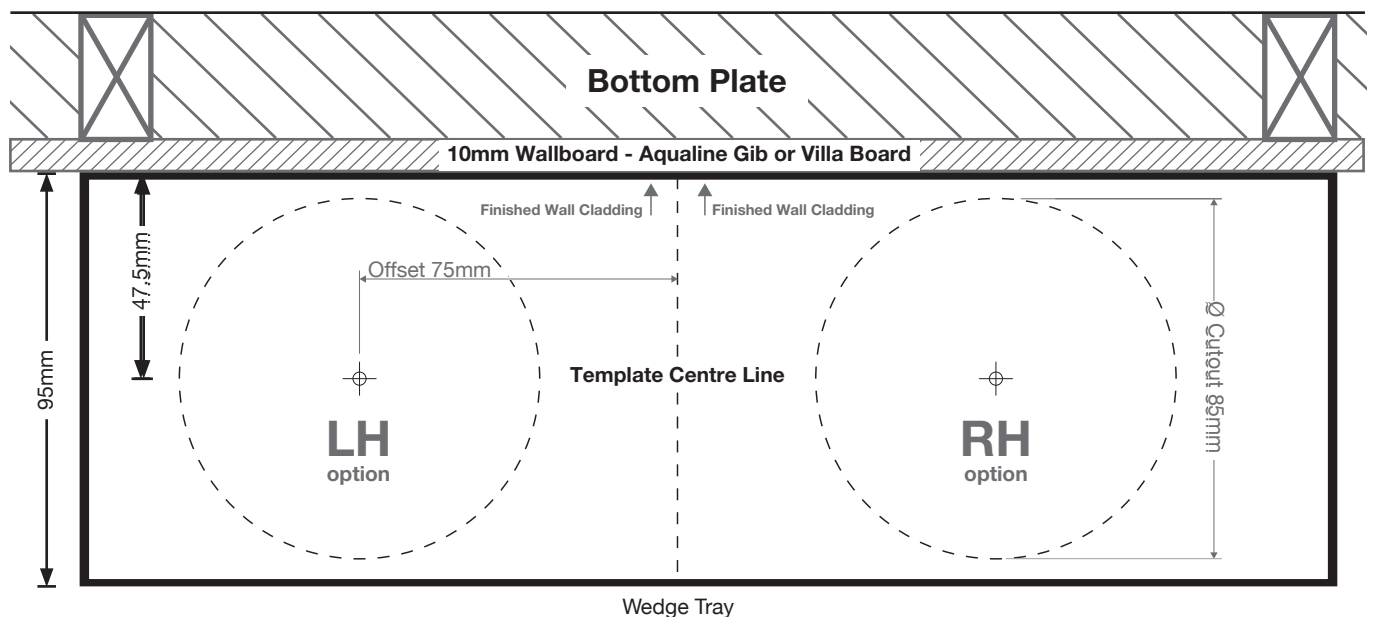


STEP 2

- Align the center line of the template to the center line marked on the floor.
- Template markings:
 - LH or RH option for waste connection.

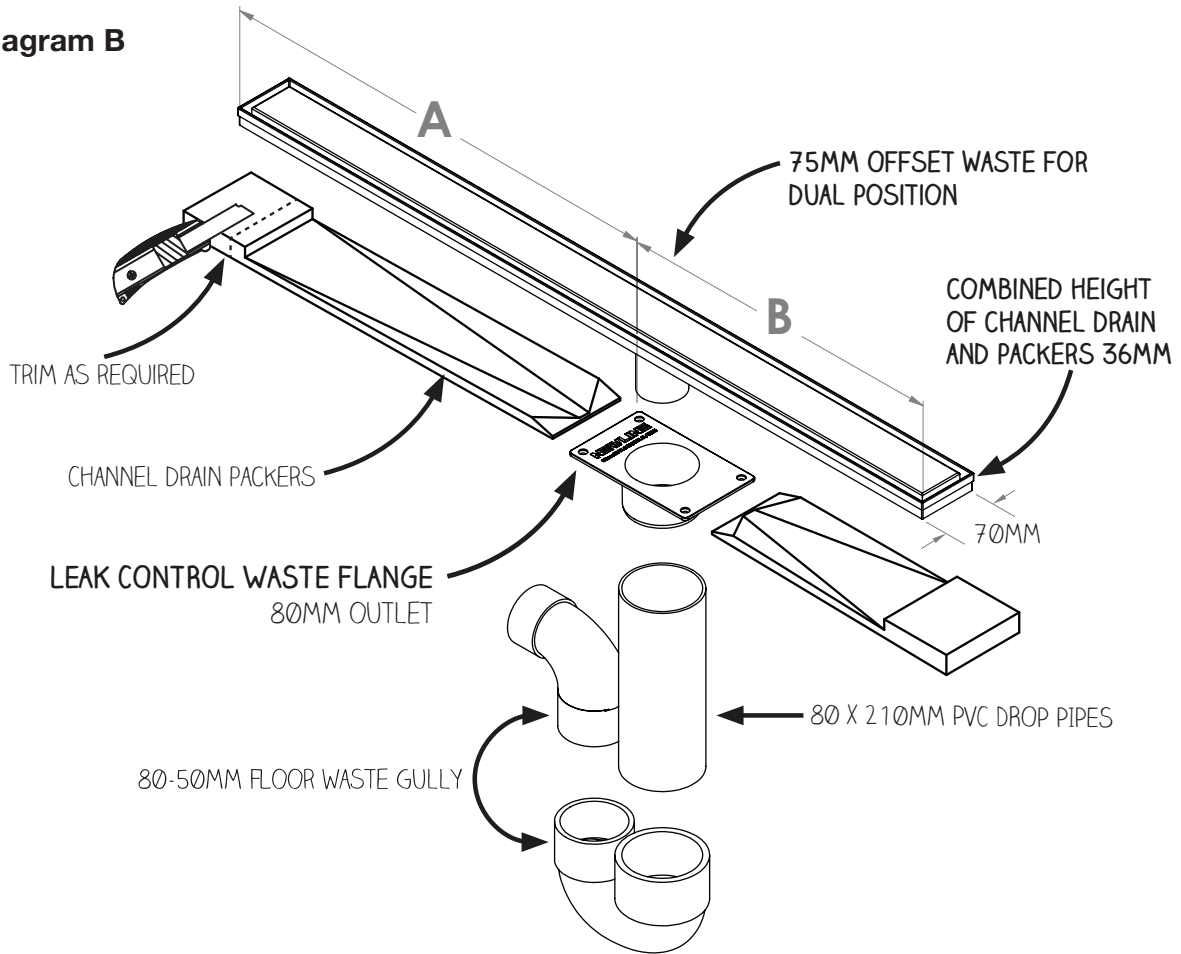
Use template and mark waste position

1. From the framing add the thickness of the wall cladding i.e. Gib or Villa Board.
2. Place the template in position and mark the most suited offset position.



Installation Steps: Components and Drain Cross Section

Diagram B

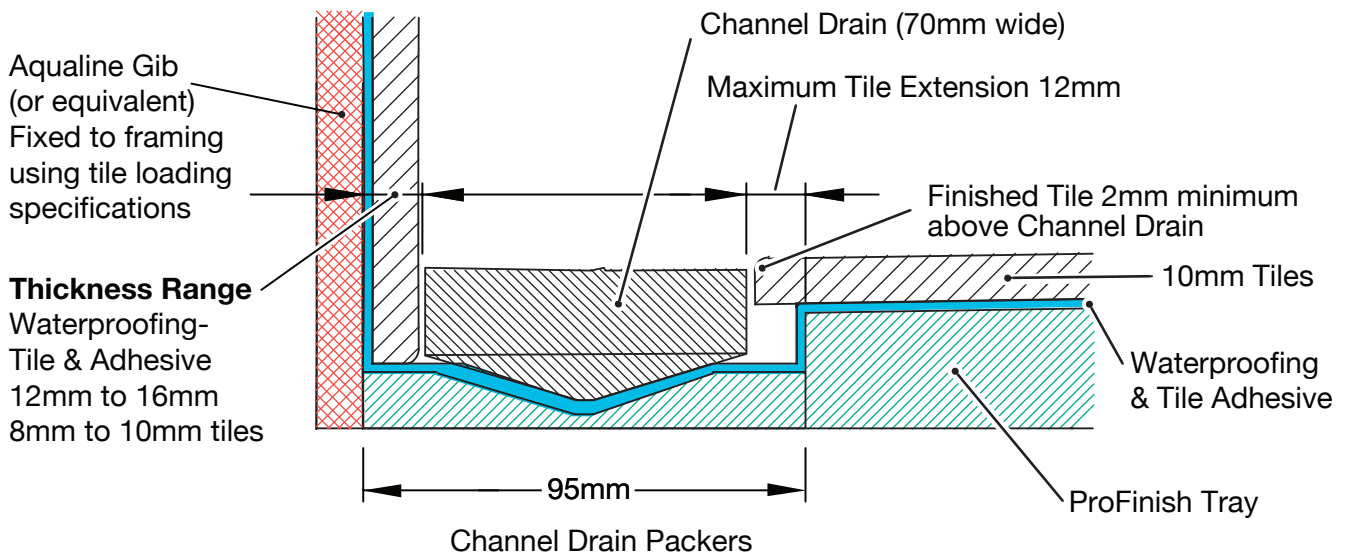


STEP 3

Leak Control Flange: Mounting to Floor (Diagram B)

1. Bonded/sealed on the underside with silicone.
2. If screws are used also, use stainless countersunk head screws and plug for concrete. It is important that the screw head is well below the top surface and capped with silicone.

Diagram C Channel Drain Cross Section (Waste detail not shown)



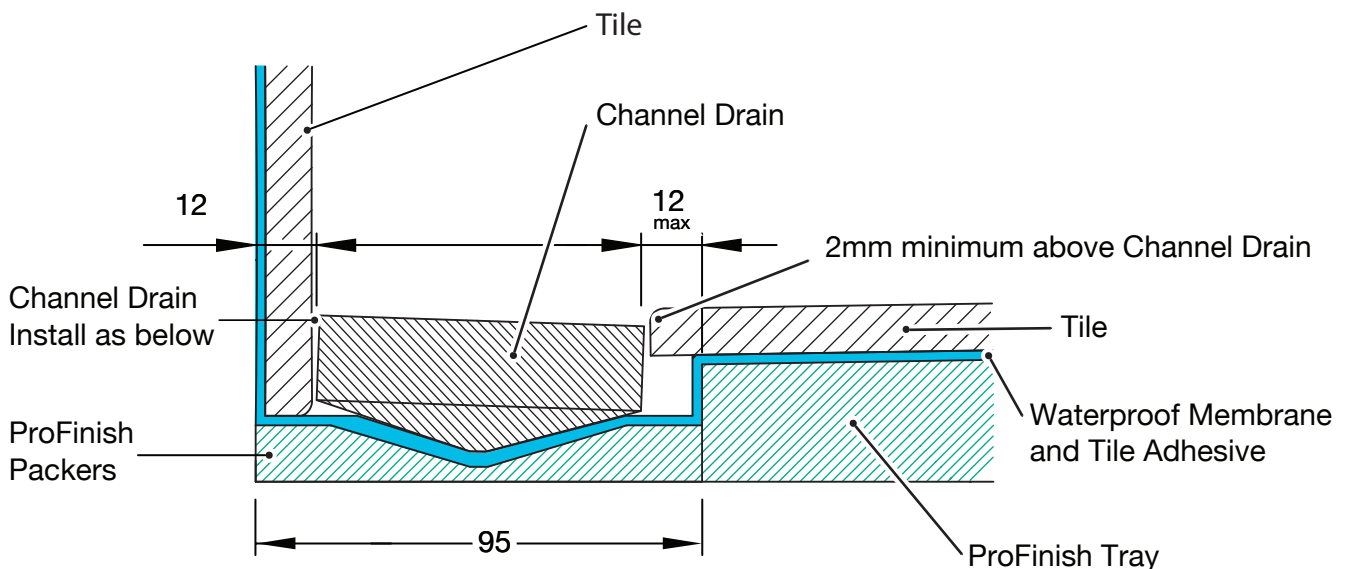
Installation Steps Continued

Set-out and checks required prior to bonding in place

STEP 4

- The channel drain packers are fitted either side of the waste flange. If waste flange is positioned correctly any trimming of packers required to length will be at the outside raised section and be equal.
- Check all the ProFinish components fit in place as Diagram C. If anything needs trimming the packer width must remain the same at 95mm.
- Position the channel drain and check the following:
 1. 3-Sided & Level Entry - The gaps are even each side of channel drain.
 2. 2-Sided Hob - The gaps are even both to wall and inside hob.
 3. Calculate the floor tile plus adhesive is minimum of 2mm above channel drain (as in Diagram C & D).

Diagram D Tiling & Channel Drain Specifics



Tray width versus Channel lengths: Some sizes trays require a small tile each side of channel with a maximum of 110mm.

Tiling Outcome:

1. All tray floor tiles must guide water to the channel drain.
2. Tilt the channel and corresponding tiles each end of channel drain (Diagram D).
3. Establish a joint of approx. 5mm where two slopes meet.
4. Taper the grout from flush at outside to channel level.

Channel Drain Installation:

The channel drain top perimeter must be silicone bonded to the surrounding tiles.

Note: Minor packing may be required under the drain but do not silicone bond to the waterproofing as later removal will damage the waterproofing.

Installation Steps Continued

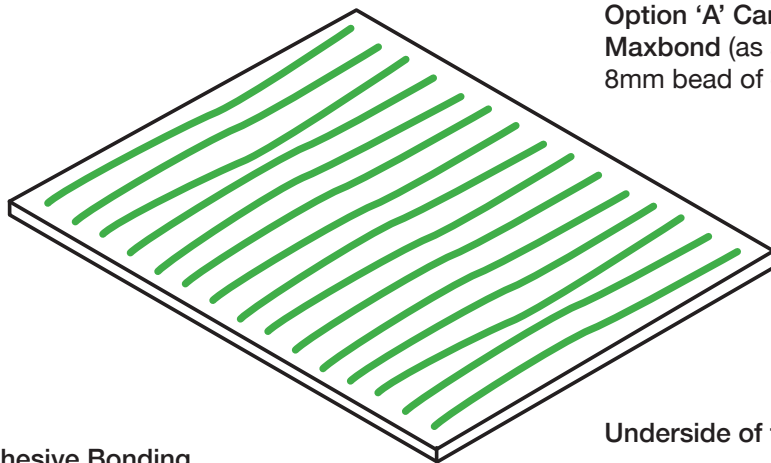
STEP 5 Choose either option below for bonding of all tray components.

OPTION A Maxbond Cartridge Bonding

1. Apply 8mm beads of glue lines at 55mm centres on underside of tray.
2. Apply generous MS adhesive where the tray abuts the wall board. This is an important foundation for waterproofing later. 2-Sided can be completed readily but 3-Sided will need method to complete this.
3. Place on floor apply pressure evenly. Lift up for 5 minutes to release solvents (half minute to 4 minutes relative to temperature).
4. Weigh down and hold in position. Allow 48 hrs for adhesive to cure sufficiently to hold.

Note: Temperatures under 5° will hold the glue dormant. Elevate the room to 10° minimum for curing.

Diagram E



Option 'A' Cartridge bonding with Maxbond (as above)
8mm bead of glue lines at 55mm centres

Option 'B' Tile Adhesive Bonding
(as below)

Underside of tray

OPTION B Tile Adhesive Bonding

This option applies to masonry surface, Tile and slate underlay over timber or concrete surface.

1. Apply a C2S2 Tile Adhesive by troweling out the adhesive on the back of the tray and the floor area and applying the tray into the wet adhesive as a "wet on wet" contact.
2. Apply a generous MS adhesive where the tray abuts the wall board. An important base for waterproofing later. 2-Sided can be completed readily but 3-Sided will need method to complete this.
3. Press the base down firmly in position ensuring 100% coverage and exclusion of air.
4. The waterproofing first coat can proceed immediately but there "must not" be any pressure placed on the ProFinish tray until the full cure time of the tile adhesive is reached.

Partially cured tile adhesive risk adhesion failure if weight is applied until fully cured.

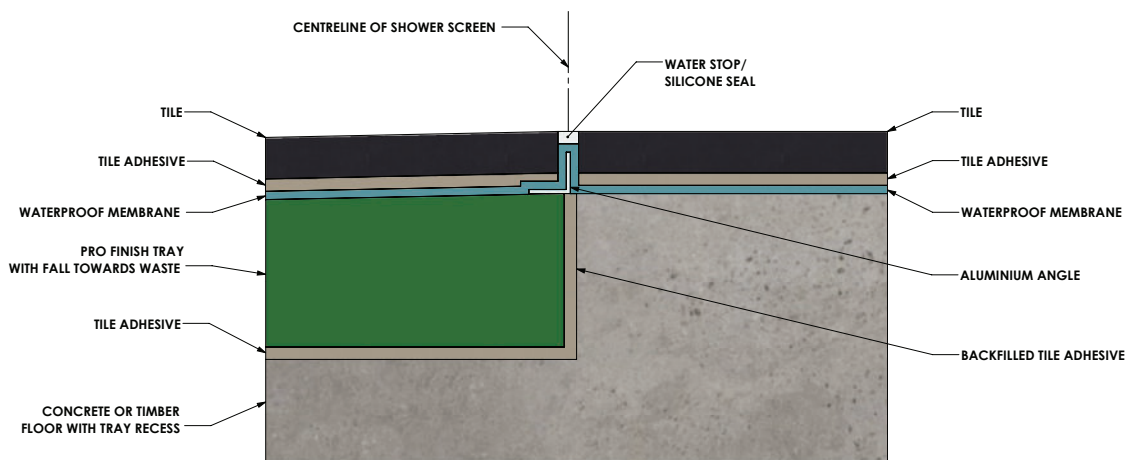
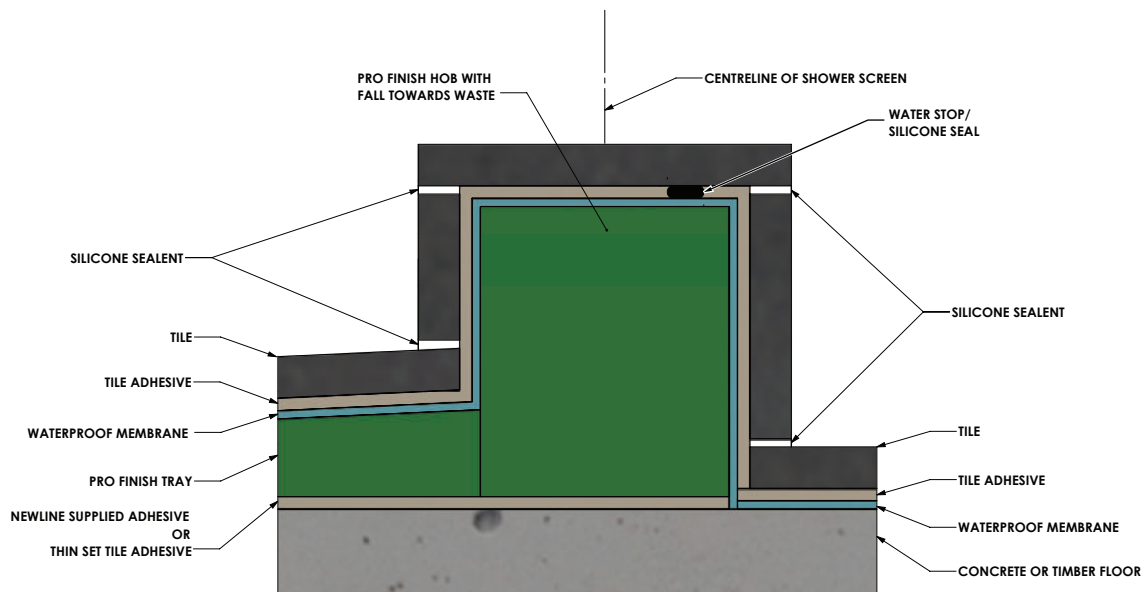
Approx curing times: Standard C2S2 8 hrs minimum. Rapid C2S2 2 hrs minimum.

Consult with your supplier: For their specific recommended cure times and conditions

Tiled Hob or Level Entry Shower Moisture Containment

1. When installing tiles in a hob or level entry it is important to install a "WATER STOP" to prevent moisture from tracking under tiles. All work must meet the requirements of AS3740.
2. The two drawings following indicated the positioning of these water stops. An alternative position is acceptable if it can be demonstrated it complies with AS3740.
3. This water stop line must be continuous and carried up the wall under the tiles. This is to fully encapsulate the shower recess from migration of moisture.

HOB TRAY CROSS SECTION: HOB DETAIL
SCALE 1:1



Note: "The Water Stop" details are to alert the tiler to his obligations. For technical advice consult your materials supplier, industry guidance from TANZ, "Good Tiling Practice" publication from BRANZ to ensure compliance with the NZ Building code..

ProFinish™ Tile Tray Waterproofing

WATERPROOFING

- The Independent Waterproofing Companies listed below have tested their systems and procedures on Newline ProFinish Tile Trays. This represents years of proven track record.
- At the time of publication all Waterproofing Systems hold a BRANZ Appraisal.
- All the Waterproofing Systems listed have an aligned Tiling Systems. You must use the associated Waterproofing & Tiling system for compatibility, performance and accountability.
- A Producer Statement must be provided to the Council Authority and Owner detailing the Waterproofing applicator ID or Code. As an appendage also include the tiling system utilised.
- Applicators must be trained and hold current Accreditation with the respective system being utilised for the Warranty to be valid. We advise you to ask for these credentials.

COMPANY	PRIMER	PRODUCTS	CONTACT	WARRANTY
ARDEX	Prep: Wipe down with damp cloth - No primer	1. ARDEX WPM 155 Rapid (1 Part Poly- Acrylic) 2. Ardex Superflex WPM 002 (2Part) 3. ARDEX WPM 750 WeldTec Undertile Sheet Membrane*	Ronald Rose 027 838 5691 ronald.rose@ardexnz.com	15years *20years
DAVCO Tilemax Ltd	Davco Primex	1. Davco K10 Plus - Polyurathane (Coat Primex within 24 hrs) 2. Davco K10 Rapid	Isaac Gordan 022 127 7694 isaac@tilemax.co.nz	15 years
DRIBOND CONSTRUCTION CHEMICALS	Primax Bonding slurry - Kemcrete mixed 50/50 with cement or Gripflex	1. Hydrathane 2. Liquid Flash 2- Pack 3. Reomat b/breaking Tapes	Steve Plester 022 1205416 sp.conchem@xtra.co.nz	15years
LADICRETE GLOBAL TILE	Prep: as instructions No Primer	Hydro Ban SBR	Chris Anderson 021 784 162 Chris@globaltile.co.nz	15years
MAPEI	Ecoprim Grip (1part) Magelastic SP (2 part)	1. Mapelastc AquaDefence 2. Mapegum WPS 3. Mapelastc Smart (2part)	Heidi Clark 027 6455 122 heidi.clark@mapei.co.nz	15 years
SIKA (NZ)	Per Instructions	Sikalastic-152 (2 Part) Sikalastic-220W	Andy Williams 09 820 2900 021 421 084 williams.andy@nz.sika.com	15 years
CTA	Prep N Prime	Aquablock SBR Aquablock WPU Aquablock (2 Part)		
Tiling Trade Supplies T/A Technokolla NZ	Prep: Clean and Vac surface. Technokolla 101	1. Technokolla RL80 SeamTape joins Rasolastic Advance. Two Part 2. Strataflex & Rasogum over laps	Dave Boyes 0275 635 891 dave@technolla.co.nz	15 years

- Newline warrants the performance and integrity of the ProFinish Tile Shower Base for 20 years. Non-conformity to installation instructions has the risk of failure.
- All Waterproofing and Tile Installation must be installed as per manufactures Specifications as any deviation from the instructions may result in a performance failure.
- All Tiling must follow BRANZ Good Tiling Practice.

* This document is current as of 10 December 2018.

NEWLINE
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Head Office: 3 Hynds Road, Greerton, Tauranga 3112
Email: info@newline.co.nz
Freephone: 0508 639 5463 Phone: 09 444 2053
www.newline.co.nz