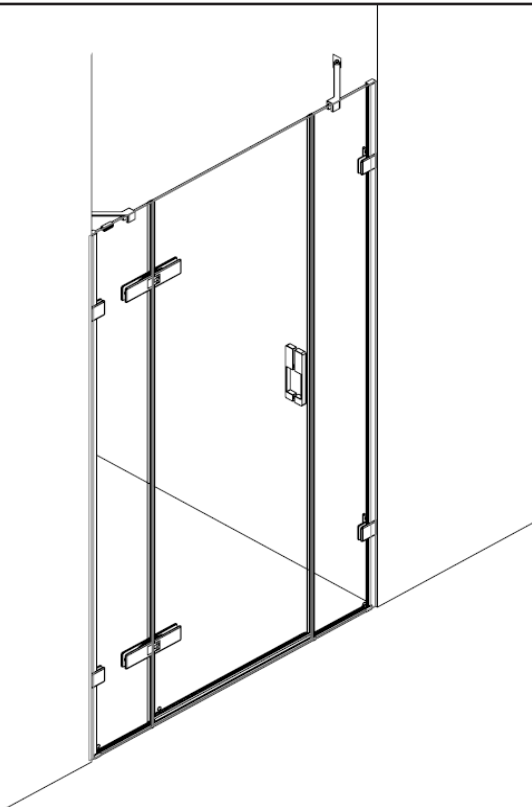


Liberty Hinged Door with Two Inline Panels for Alcove KLHD + KLH / TLHD + TLH



Handling

Be aware toughened glass can shatter if not handled correctly. It should not be subjected to any sharp impact and it is essential to protect the glass by resting it on a soft protective surface during installation such as cardboard or carpeting. It is recommended to wear PPE at all times during installation.



Pre-Installation Checks

1. Please take time to read these instructions prior to installing your product, including the Tray Sizes section below.
2. Check you have the correct product, by looking at the labels on the side of the product packaging.
3. Check all the product components and fixing kits are in the box - these are listed on the next page.
4. Please check the product for defects or damage, once the installation has commenced we cannot accept responsibility for any defects or damage.
5. Before you commence any drilling check there are no hidden electrical cables and/or water pipes.
6. No attempt should be made to re-work the toughened safety glass.
7. The installation of the product should be performed by two persons.
8. It is strongly recommended the product is fitted on a tiled surface or similar waterproof surface - which are tiled and grouted before product is installed.
9. It is strongly recommended that the walls the product is going to be installed on are vertical, and the floor/tray is level.
10. Please note that some natural misting may occur when you remove this product from its packaging, due to the addition of the glass protection pre-coating. If this does occur this can easily be removed with a soft, dry cloth.

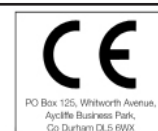
Tray Sizes

Important: You **MUST** measure your tray before you proceed with installation. Liberty Products have been designed to fit on standard Roman trays which have only been tiled over by 10mm at a maximum, If your tray exceeds this given value, you may need a bespoke product. The 'Adjustment' displayed in the brochure or on your bespoke customer drawing is the required Alcove tray size - this is at MID Adjustment unless stated otherwise.

Refer to Step 1 for a guide on how to measure your tray accurately before proceeding any further - Roman will not be liable if you begin installation without correctly measuring your tray, to the realisation it doesn't fit.

Consumer Guarantee

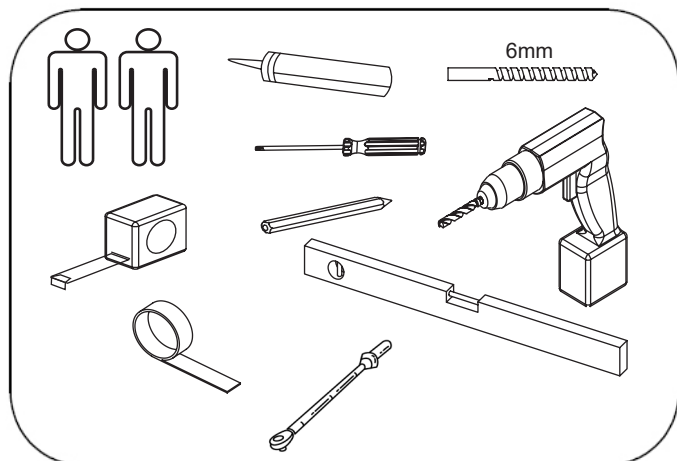
Please make sure the purchaser/end user completes and returns the guarantee card which is enclosed with this product. Failure to validate the Guarantee will mean only the 1 Year Statutory Guarantee will apply.



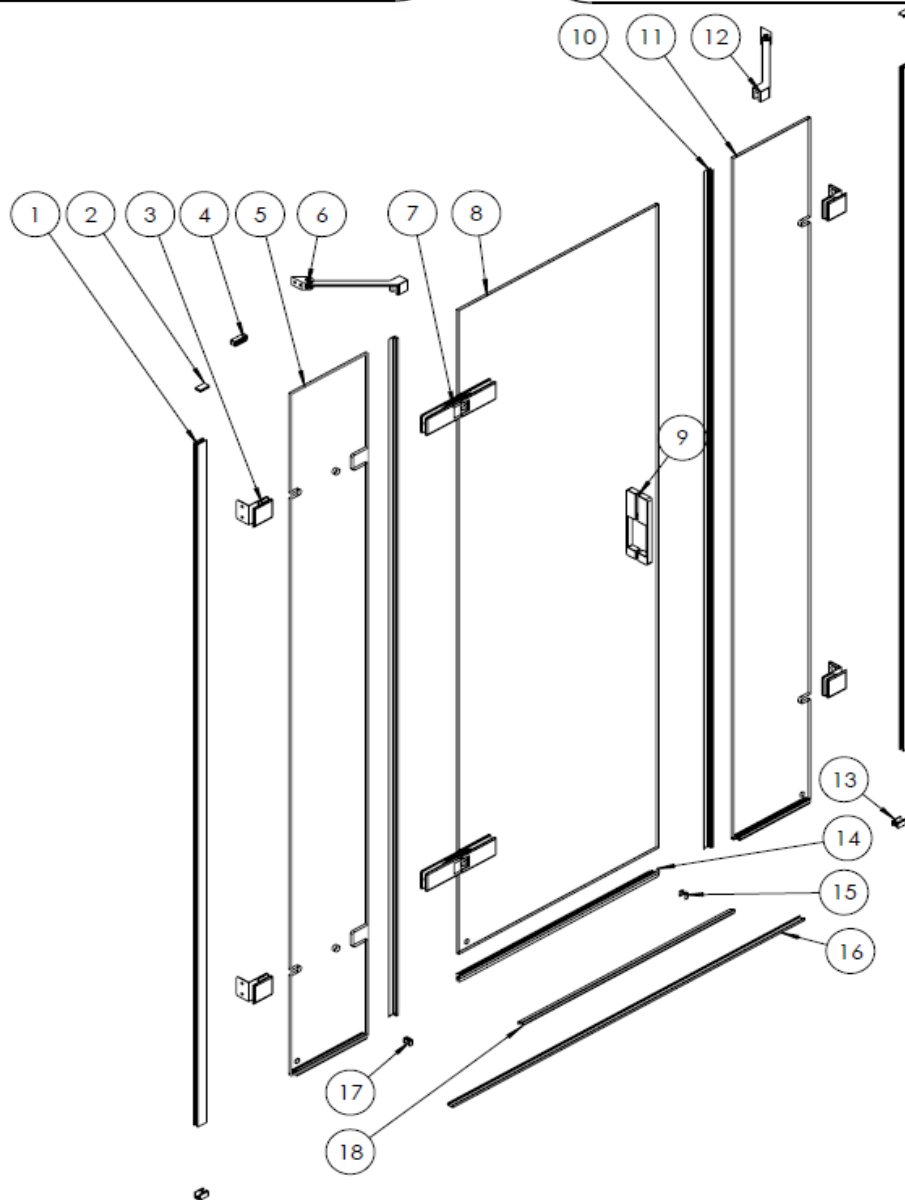
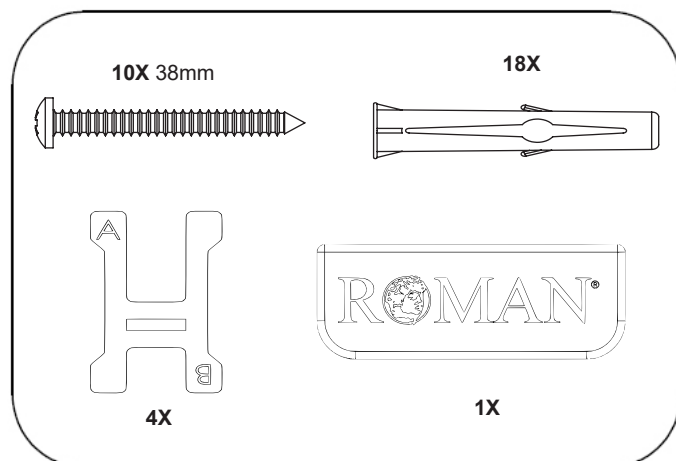
To obtain a copy of the Declaration of Performance for this product, please go to: www.cer-eps.com, contact us on +44 (0) 1325 320054, or write to us at the above address, quoting the product reference number where possible.



Equipment Checklist: Not Supplied



Fixing Kit Components



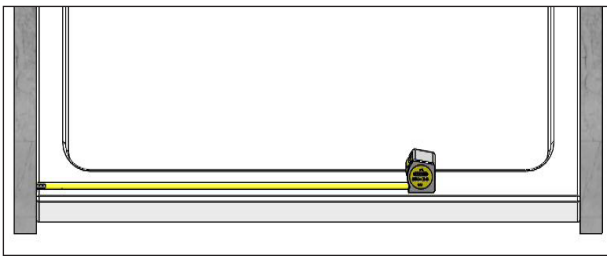
No.	Description	Qty.	No.	Description	Qty.
1	Wall Profiles	2	11	Plain Panel Assembly	1
2	Top Cap	2	12	Bracing Assembly (R-Hand)	1
3	Wall Brackets	4	13	Dam to Profile Joint	2
4	Branding Badge	1	14	Door Seal	1
5	Hinged Panel Assembly	1	15	Blanking End (R-Hand)	1
6	Bracing Assembly (L-Hand)	1	16	Bottom Rail	1
7	Hinge Assemblies	2	17	Blanking End (L-Hand)	1
8	Door Glass	1	18	Door Bottom Rail	1
9	Door Handle	1			
10	Vertical Flipper Seal	2			

Step 1 - Tray Sizes

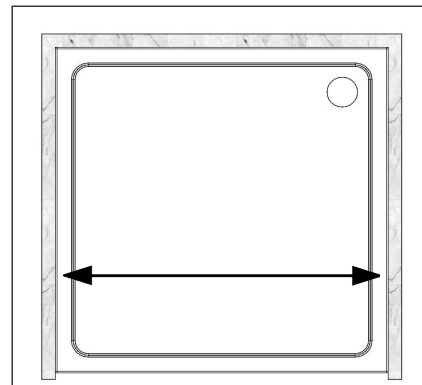
Your area must be tiled and grouted before measuring your tray - refer to your tray installation instructions and ensure this is done correctly. This is because tray measurements are taken from the tiled wall. Once tray installation is complete you can proceed to measuring the area. Liberty Products have been designed to fit on trays which have been tiled over by 10mm **maximum** (each wall). The tables below show the range of tray widths which will allow for correct fitment - this is for standard products only. For Bespoke products please refer to your customer drawing for the MID Adjustment of the Door, this is the required Alcove size.

Door / Inline Code	Tray Width
KLHD13 + KLH1213 / TLHD13 + TLH1213	1166mm - 1194mm
KLHD13 + KLH1413 / TLHD13 + TLH1413	1366mm - 1394mm
KLHD13 + KLH1613 / TLHD13 + TLH1613	1566mm - 1594mm

If your tray exceeds the given amount for your product size, you may need a bespoke product.

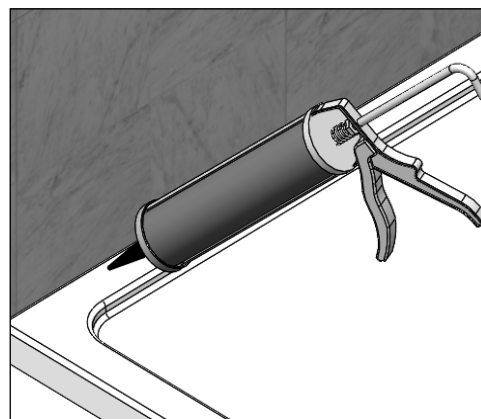
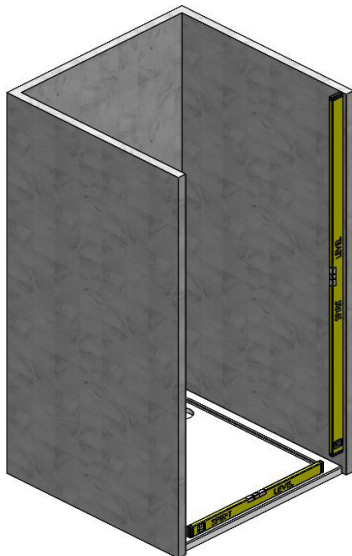


Measure from one tiled wall to the other.



Use the table above and measure the Tray. We recommend measuring the bottom, middle and top across a 2000mm height.

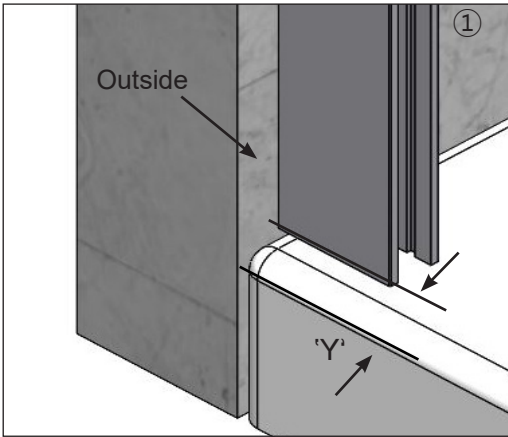
Step 2 - Pre-Installation Checks



1. Make sure the tray is installed as per the manufacturer's instructions.
2. Check your Tray and Walls are level on all sides (the bubble on the spirit level must be in the centre of the 2 lines).
 - If the Walls & Tray are not level you will not achieve the +/- 7mm of adjustment.
3. Stand in the tray and check that there is no adverse movement (correct if necessary).
4. The walls should be tiled and grouted up to the tray.
5. The tiles and the tray should be sealed using a good quality bathroom sealant:
 - Spray the seal and joints with the shower head and check for leaks when the silicon has cured.
 - Check the plumbing for leaks.
 - DO NOT plasterboard over the tray.
 - DO NOT grout the tiles when the enclosure has been fitted, the grout may discolour the aluminium profiles.

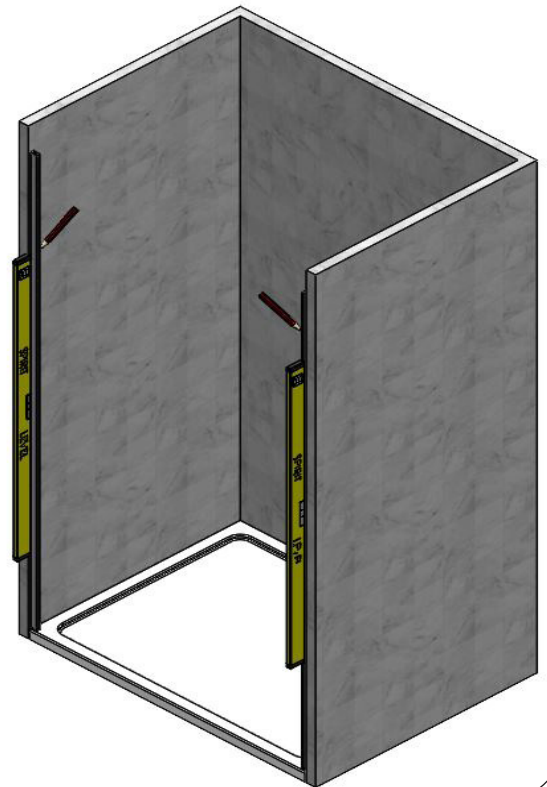
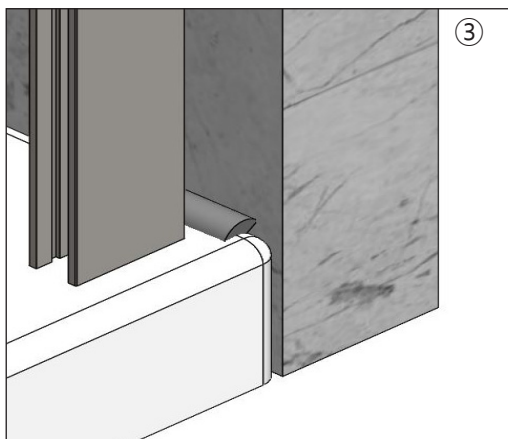
Step 3 - Wall Profile Positions

IMPORTANT: Placing some Masking Tape on the Tiled Wall in the position where the Wall Profiles are to go will not only help with marking out but will also help protect the tiles when drilling.

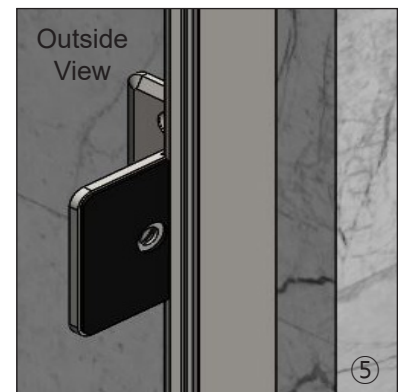
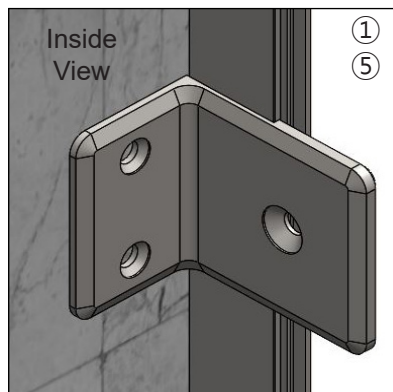
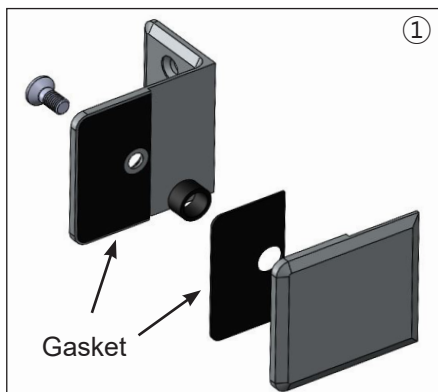


1. Depending on the product purchased, use the above tables to determine the distance (Y) to place the Panel Wall Profiles in from the front of the tray. Using a spirit level keep it completely vertical then with a pencil carefully mark the wall through the holes in the Wall Profile.
2. Drill the wall with a 6mm masonry drill (not supplied). Remove the Masking Tape and fit the Wall Plugs and remove any debris.
3. Apply a bead of sealant the width of both Profiles where they meet the top of the tray and the tiled wall.
4. Place the Wall Fixing screws into the holes into both Wall Profiles
5. Line up the screws with the holes in the Wall and tighten all the screws.
 - **NOTE: Tighten the screws evenly.**

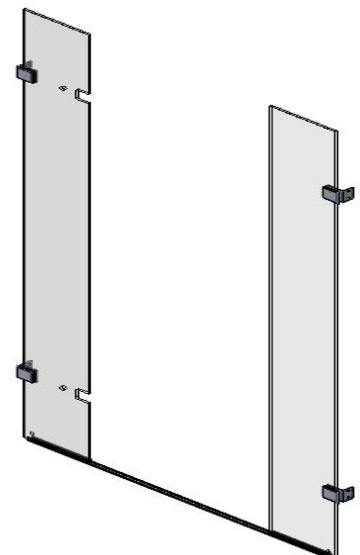
KL (8mm) Y Dimension	KL (10mm) Y Dimension
12mm	10mm



Step 4 - Panel Wall Bracket Positions



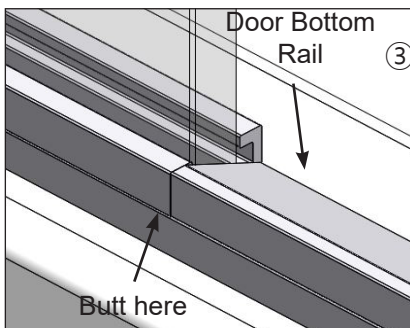
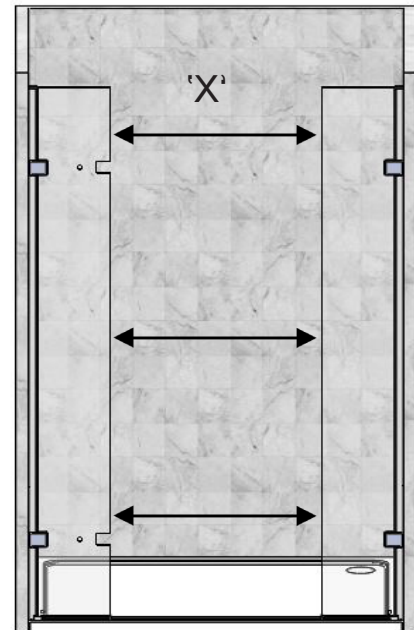
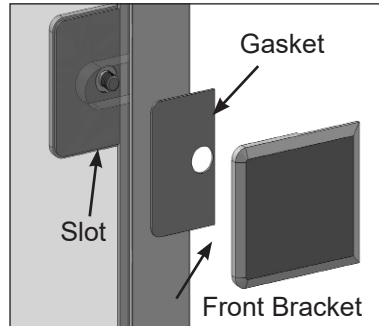
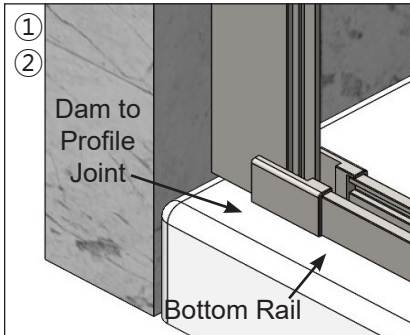
1. Dismantle the Wall Brackets and fit onto both pieces of Panel Glass ensuring that all gaskets are fitted. Ensure that the brackets are fitted the correct way (screws to the inside).
 - **IMPORTANT: If you have purchased a product with a print, please ensure you fit the print on the outside.**
2. Slide the Long Bottom Rail over the bottom of Both Panels .
3. Carefully lift the Panels into the Panel Wall Profile and up to the wall.
4. Mark the wall through the holes in the Brackets using a pencil. Remove the Panels and Long Bottom Rail
5. Drill the wall with a 6mm masonry drill (not supplied). Fit the Wall Plugs and remove any debris.
6. Remove the brackets from the Panels and fasten the inside bracket to the wall and over the Wall Profile.



Step 5 - Fitting the Panel

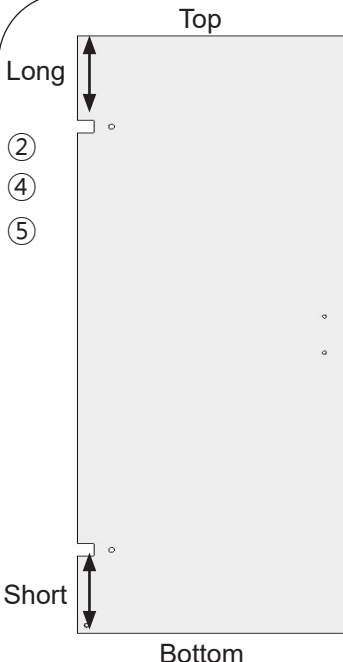
Please Note: We recommend 2 people carry out the procedures below.

1. Place the Bottom Rail onto the Tray and between the Panel Profiles, fit the Dam to Profile Joints at each end.
2. Fit each Panel into the Bottom Rail by pushing them down, push the Panels into the Panel Profiles.
 - **IMPORTANT: If you have have purchased a product with a print, please ensure you fit the print on the outside.**
3. Create a gap "X" (see Table) between the Panel Glass, ensure both Panels are equal at both sides then fit the Door Bottom Rail (ensure the slope faces inward) into the Bottom Rail and between the glass.
4. With the Panels in position attach the front of the Wall Brackets to the already fitted Brackets and fully tighten all the screws, ensure that the gaskets are placed between the Brackets and glass.
 - **IMPORTANT: Please ensure that the gap ("A") between the Panels is the same all the way up.**

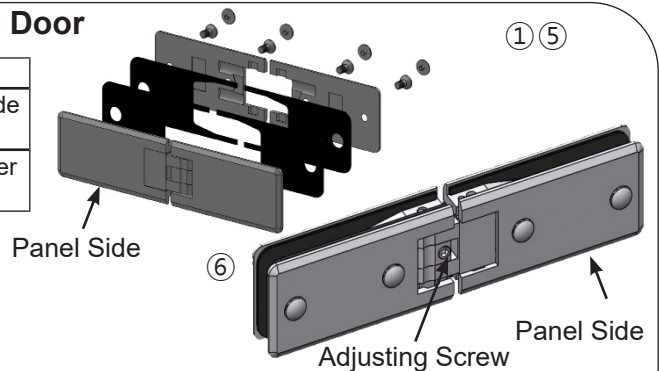
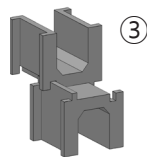


Door Code	X Dimension
KLHD	663
TLHD	663
Bespoke Door	Door Glass Width + 10mm

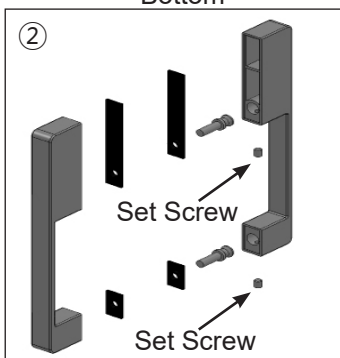
Step 6 - Fitting the Door



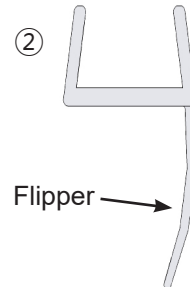
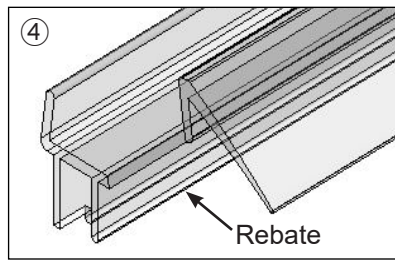
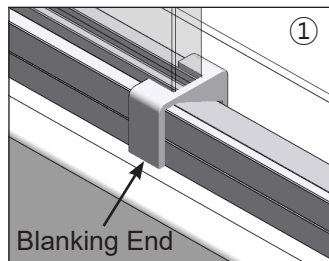
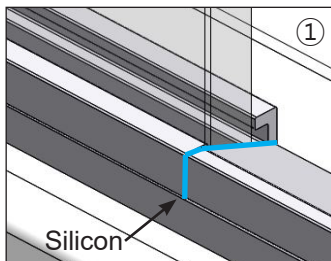
Product Thickness	Gaskets Required
8mm	2 Gaskets either side of the Glass
10mm	1 Thinner Gasket either side of the Glass



1. Carefully dismantle the Hinge Assemblies. Fit the Panel Side of the Hinge to the Hinged Panel ensuring the correct amount of gaskets are fitted on both sides of the glass (see table). Make sure they are square to the Glass and tighten the screws.
2. Make sure you have the Door Glass the correct way. Remove the Handle Assembly from it's packaging and reassemble onto the Door Glass, ensure that the set screws are fitted on the inside and at the bottom of the Door. Ensure all gaskets are used between the glass and metal parts.
 - **IMPORTANT: If you have have purchased a product with a print, please ensure you fit the print on the outside.**
3. Fit the Red Door Setting Blocks together, create assemblies then place onto tray and over the Bottom Rails.
4. With the Door Glass the correct way offer it onto the Hinges and onto the Red Setting Blocks.
5. Replace the gaskets and back plates onto the Hinges and fully tighten the countersink screws. Using a Spirit Level ensure the Door is fully vertical. To adjust carefully loosen the Hinges and move the glass (re-tighten).
 - **Note: There are the correct amount of gaskets on either side of the glass, dependant on the size purchased.**
 - **IMPORTANT: Tighten the 8 Hinge fixing screws to 10N/m using a torque wrench.**
6. The Hinges can be adjusted for inward or outward opening. Loosen the Adjusting Screw, move the Door to the desired position then tighten the Adjustment Screw.

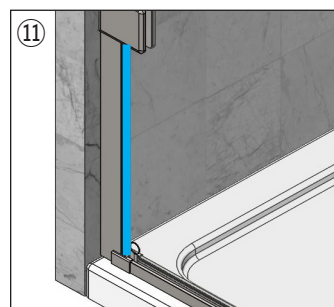
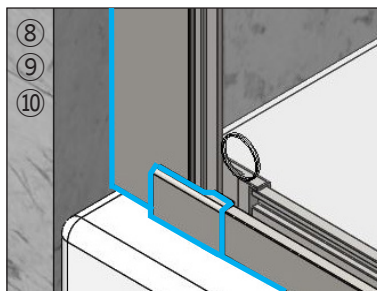
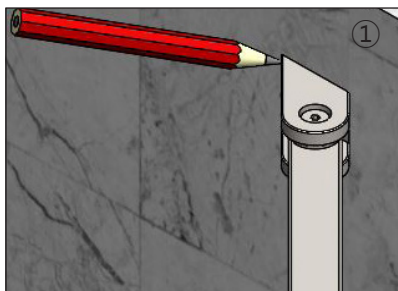


Step 7 - Fitting the Seals

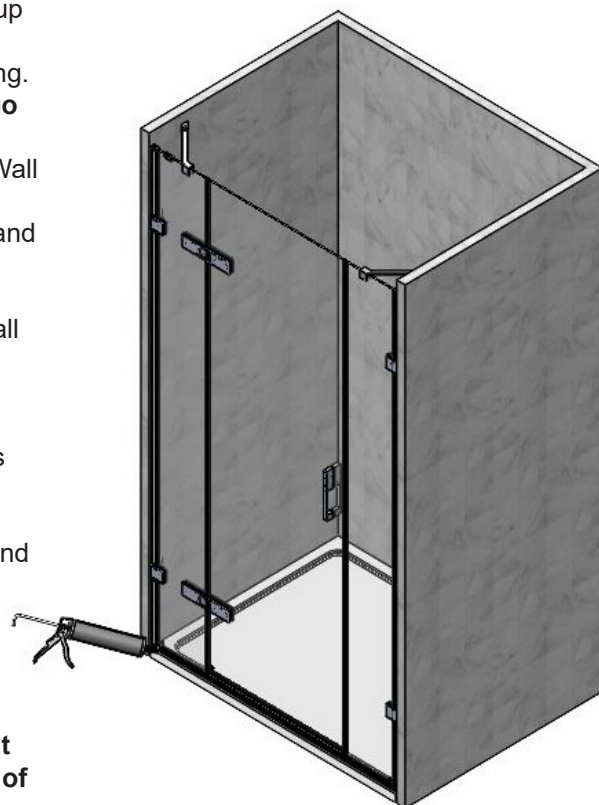


- At the bottom of Panel Assembly, place a bead of silicon between the Glass and the bottom Rails. Fit the Blanking Ends and carefully remove any excess silicon.
- Fit one Panel Seal onto the Plain Panel Glass and down on top of the Blanking End, trim to length if required.
 - IMPORTANT: The seal needs to be fitted with the flipper section on the INSIDE of the door glass for an outward opening door, while for an inward opening door the flipper should be fitted on the OUTSIDE.**
- The other Panel Seal is fitted to the Door at the Hinge side and will require cutting to fit.
 - IMPORTANT: Fit the flipper on the same side as the previous seal for the door opening required (Outward = Inside / Inward = Outside).**
 - IMPORTANT: Ensure that the flipper part of the Seal closes onto the Hinge Panel when the door is shut.**
- The Bottom Seal requires a rebate at one end only (Handle side). Fit the Bottom Seal so that the rebated end is level with the glass at the Handle side of the door and cut it to length so that it butts up to the Hinge Side of the glass. Push fully onto the glass.
 - IMPORTANT: The Seal is rebated at both ends, remove the rebate that is not required. You MUST ensure that the Deflector on the Bottom Seal is facing inward towards the shower.**
- Fit the Top Caps to the top of the Panels Profile and the Branding Badge to the top of the Panel Glass.

Step 8 - Bracing and Sealing



- Place the Bracing assembly onto the top of the Panel Glass and up to the tiled wall, use a Spirit Level to keep it horizontal.
- Lightly mark the tiles around the Wall Bracket. Remove the Bracing.
 - NOTE: Place masking tape where the Wall Bracket is to go as it will protect the tiles and aid in marking.**
- Remove the Wall Bracket from the Bracing Assembly. Place the Wall Bracket over the pencil mark and mark the hole positions
- Drill the hole positions using a 6mm Masonry Drill (not supplied) and fit the Wall Plugs.
- Fit the Wall Bracket to the tiled wall using the screws supplied.
- Place the Bracing onto the top of the Panel Glass and into the Wall Bracket and re-assemble.
- Ensure that the gaskets are between the Glass and Bracing then fully tighten all screws in the Bracing.
- Place a bead of silicon around the top of the Dam to Profile Joints and up the sides.
- Seal the base of the enclosure horizontally on the outside only.
- Seal the Wall Profiles up all the way from the tray on the inside and outside (both profiles).
- Seal up from the top of the Dam to Profile joint where the Glass meets the Wall Profile up to the first Bracket on the outside only (for both the Inlines)
 - Do not seal along the base on the inside.**
 - IMPORTANT: Failure to follow stages 8,9,10 and 11 may result in serious water damage and is not covered under the terms of the guarantee.**



Trouble Shooting Guide

Should you experience any problems during installation please refer to the Trouble Shooting Guide or contact Customer Relations on:
+44 (0) 1325 328033

To enable customer relations to provide you with an excellent level of service it is important that you quote your product Code and Reference Number - these can be found on the Guarantee card.

Problem	Solution
Leaking	<ol style="list-style-type: none">1. Check that the inside gap between the Tray and Wall profile has been sealed correctly.2. Ensure the tray is sealed along the tiled walls prior to installation.3. Ensure the joint between the enclosure and tray top is sealed4. If the inside joint between the enclosure and the tray top is sealed, this will cause leakage - sealant must be removed.5. Ensure the Panel Profiles on the tiled walls are sealed vertically on both the inside and outside. <p>Important: This enclosure should be water tested conforming to BS EN 14428</p>
Enclosure Alignment on Tray	<ol style="list-style-type: none">1. Have you read and understood Step 1 of the instructions?2. Is the enclosure fitted onto a tiled wall?3. Are the Wall Profiles completely vertical?
Door not operating correctly	<ol style="list-style-type: none">1. Ensure both Panel Profiles are completely vertical.2. Adjusting the Set screw on the inside of the Hinges can help.3. Ensure the tray is completely level.4. Check the bottom of the door is parallel to the top of the tray.
Door Alignment	<ol style="list-style-type: none">1. Ensure the Hinge Assemblies are completely vertical.2. Ensure you have read and understood Step 1 of the instructions.3. Check the bottom of the Door is parallel to the top of the Tray.4. Check the Hinge Screws have been fully tightened to 10N/m.
Panel Alignment	<ol style="list-style-type: none">1. Ensure the Tray is completely level.2. Check the Bracing is fitted correctly and fully tightened.

Important Information to help you maintain your Product:

The following information is all you need to keep your product looking new.

Our products are generally maintenance free, however it may be necessary to lubricate wheel assemblies and other moving parts such as hinges from time to time.

Clean your product using a mild detergent diluted in water and then polished off using a soft cloth.

If you live in a hard water area, periodically clean your product using a 50/50 solution of white vinegar and water. The solution should be left on the enclosure for approximately 5 minutes then rinsed off using warm water. This method of cleaning should remove lime scale residue.

It is strongly recommended that a quality silicone spray is used.

A list of Donts

1. Don't use acidic based products which are unsuitable for cleaning enamel surfaces.
2. Don't use abrasive cleaners or cleaners using bleach or solvents, these products will adversely affect the finish of the aluminium profiles.
3. Don't use scouring pads, powder or any sharp instruments when cleaning the enclosure.