

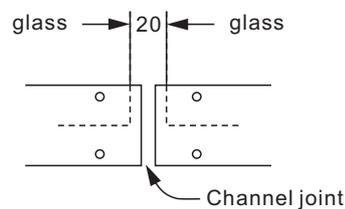
Cuboid Face Fix System Installation Instructions

Installation Considerations

- Installation of the Face Fix System should be carried out by suitably qualified tradesmen.
- Check what fixing method is best for the application and structure that it is to be fixed to with reference to the PS1
- Check Building Code requirements with regards glass height, ie pool fencing, Balustrading etc
- Check the deck for levels to determine finished glass heights, and channel position.
- Review installation detail options to check Base Channel fixing height.
- Check the deck for bowing to determine the amount of packing that may be required, to ensure a straight run of channel.
- Note: these instructions make the assumption that the structure has been certified as to fit for purpose by others.

Measuring Guidelines

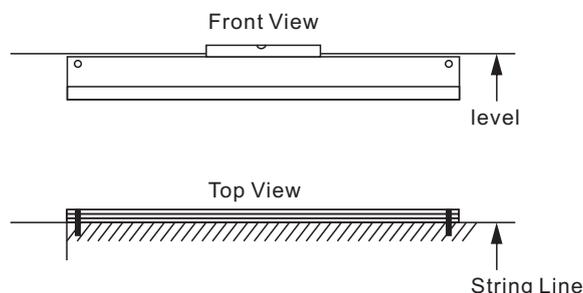
- 1) Site measure to determine the overall lengths required for each part of the deck.
- 2) Ensure that joints between lengths of channel in a straight continuous line match the joints or spacing's in the glass.



- 3) For Glass and Face Fix base channel measurements and layout recommendations refer to the "Aluminium/Glass Detail" brochure.
- 4) We recommend to send us the tight sizes of the area to be installed and we can use this to cut the base channel and advise on glass / channel dimensions.

Installation detail

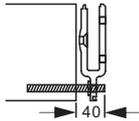
- 1) Determine the appropriate final finishing height of the channel and cover cap.
- 2) From this position determine the height of the first fixing position for the counter sunk fixing point in the middle of the Base Channel.
- 3) Check levels, heights and any bows in the deck to determine final fixing positions.



- 4) Mark the fixing points at each end of the deck or channel running a string line for levels and to determine the packing required to achieve a level, straight run of base channel.
- 5) Check the supplied pieces of channel to ensure they match the measurements required for the deck.
- 6) Check the fixing position in the supplied channel for the fixing holes at each end of the channel to commence installing the base channel.

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- 7) Ensure no fragments of aluminium swarf are present inside the channel
- 8) Based on the method of installation (Steel, Concrete or timber) and the desired finished height of the inner cap, mark the fixing holes at each end of the selected piece of channel, drill the required holes and fix into place 1 x fixing at each end to hold the channel in place.
 - Note: you can use code FF9 Installation Tool to hold the channel in the appropriate position. This needs to be weighted down to support the channel.
- 9) Use the holes machined in the base channel to mark and drill fixing positions for the remainder of the base channel
 - Prior to drilling holes ensure you have the appropriate fixings for the material you are fixing to and, that the fixing hole positions matches the holes in the Base Channel on site. Note that the fixing hole positions in each piece of channel may be different.
 - Ensure that the fixing holes are level and that the glass height as ordered will meet the relevant height regulations
 - Ensure that holes are drilled plumb so that fixings will fit neatly into the predrilled holes in the extrusion.
 - Note that top and bottom holes may require different fixing detail
 - Check that fixings match the requirements of the PS1
- 10) Remove the channel and place the bottom fixings into position and ensure that the lags or rods protrude 40mm from the structure as per technical detail. Attach the relevant washers or nuts to the bottom fixings as these will not be able to be put in place after the channel is fixed in position.
Note: If packing out from the wall/deck allow the additional thickness of the packing for the bottom fixing to protrude.



- 11) Re position the channel in place over the bottom fixings and fix the top fixings into place ensuring that you pack behind the channel as required with suitable permanent materials to ensure that a straight line is achieved
- 12) Tighten all Top fixings into place so that they are securely fixed.
- 13) Continue to install all remaining sections of channel.
- 14) Check that none of the fixings holding the channel in place are protruding from the inside of the base Channel and that all debris is removed from inside the channel.
- 15) Install the rubber gasket provided on the side away from the grub screws.
- 16) Place the relevant external nuts onto the bottom fixings to approx 3mm from both sides of the leg of the channel so when you place the glass into place you will be able to achieve the final adjustment to level the glass, but also support the weight of the glass when it is first put into the channel.
- 17) The setting blocks are there to stop the glass hitting the aluminium during installation. You can adjust the height of the glass for levels by lifting it and tightening it in position with the grub screws.
Note: Do not put larger packers into the U channel to level the glass, as you will have trouble putting the 3mm alu packer into place if it hits the packers at the bottom of the channel. The pressure of the grub screws will hold the glass in position.
- 18) Ensure the grub screws don't protrude through the inside wall of the base channel and catch on the glass when it is placed into the U channel. It is easier to install this way, but probably safer to have the alu packer inside the channel and slot the glass into place.
- 19) We recommend to get the height of the glass right as you install each panel, tightening the grub screws (with alu packer in place) as you go. When this is completed you can then plumb the glass along the entire length.
- 20) Place the glass into the channel and insert the 3mm alu packer with the gasket facing the glass into place.
- 21) Hand tighten the grub screws against the alu packer, note these should only be hand tightened to a max of 6NM using a torque wrench (Available to hire if required).
- 22) Place a level on the glass and tighten the nuts on the bottom fixings to align the glass into position. Ensure nuts are fully tightened onto the bottom leg when level
- 23) Check all panels of glass for level and alignment of glass.
- 24) Trim cover caps and place into position as required and fix into place.
- 25) Depending on the location of the installation and if the height of the deck is over 5m or in a windy location it is recommended to mechanically fix the external cover cap using the v groove at the base of the cover cap.
- 26) Ensure that no Alu swarf gets into the base channel during the fitting of the covers.
- 27) Exposed ends can be finished with End Caps

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Tools you may need

- Alu Docking Saw
- Suitable drill for the installation and Concrete/timber drill bits
- Level
- String Line
- Torque wrench with 8mm innex socket adapter (Available to hire if required).
- Face Fix Installation Tools (to hold channel in place while fixing)
- Spanners to suit the locking nuts

Do

- Check levels, heights, plumb lines and measurements prior to drilling any holes.
- Clean out all swarf from channel before placing glass into channel.
- Have joins in glass matching joins in alu base channel.
- Ensure alu packer and gaskets in both sides of the glass are used.
- Check that the centre base channel fixings and grub screws aren't protruding into the channel, before installing glass.
- Check the requirements of the PS1 to ensure the installation details / fixings / for the specific project are correct.

Don't

- Overtighten grub screws, use a torque wrench.
- Have joins in base channel in a piece of glass.
- Forget to clean out the channel prior to installing the gaskets and glass.
- Drill holes prior to checking the hole positions in each separate piece of channel first.

Concrete Fixing Detail Face Fix System

Top Fixing Hole

1) After determining the correct fixing point, drill a 12mm dia hole, 90mm into the concrete.

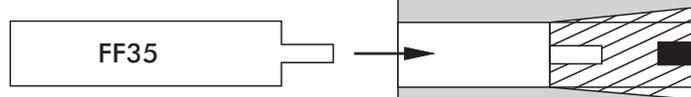
- Ensure the hole is straight and level
- Clean the hole out and check the correct depth.

2) Insert the expansion plug.

- Ensure the plug is located at the bottom of the hole.
- It may be easier to insert the screw into the expansion plug and tap with a hammer to get the plug into the bottom of the hole.

3) Use the provided Face fix tool to expand the end of the expansion plug

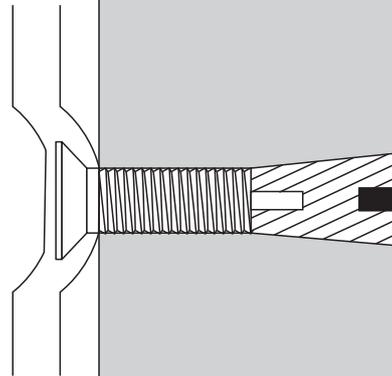
- Ensure plug is driven home hard with a hammer
- The expansion plug must be engaged for the fixing to work.



4) Put the channel to the concrete face and insert the screw through the channel and tighten into place.

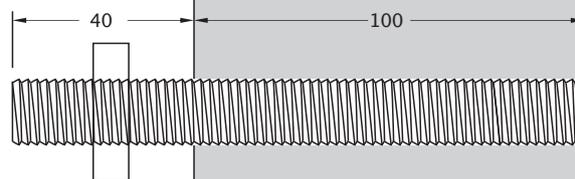
- The screw can be removed and retightened as required when assembling the channel.

Note: When the channel is ready to be installed, screw the machine screws into place using a suitable epoxy to completely fill the hole and fix the complete assembly into place.



Bottom Fixing

1) Follow the manufacturer's instructions for your selected epoxy glue, ensuring the rod is sticking out 40mm from the concrete surface.



Note: Refer to the PSI and installation instructions.

