

## **General**

Crystal is a unique glazing system which comprises of a family of interactive clip fit sections combined with our unique Crystal Dry Joint sections, these eliminate the need for expensive silicon or tape joints and specialist contractors to apply them. Although these type of joints can still be used within the Crystal Glazing System.

**For this MOB we will use only the Crystal Dry Joints**

The Crystal Glazing System accepts glass from 10mm to 12.8mm glass with double gaskets and up to 15mm glass with a single gasket. Combine this with the clip fit aluminium sections and you have a speedy glazing system dramatically reducing labour and on-site time, with a constant high quality finish.

With Crystals unique adapters enabling full integration with the Finesse system and Crystal DG system.

## **Sound**

If the construction is for Sound Performance all wall and ceiling abutments must be sealed with a sound sealant such as a neoprene seal or similar. All doors timber or glass must be as tight as possible, if necessary an additional seal at base of door will assist in good sound attenuation.

Acoustic glass must be used where required for a higher db rating.

Please refer to the Crystal technical manual for db ratings.

## **Good Fixing Practice**

All joints must be fixed tightly using the Crystal fixing brackets and suitable fixings. Where more than one length of CA620 is used as a ceiling channel or a Base section CA600 the splicing plates (CB80) must be used. As this is the only way a square and flush joint can be achieved.

## **Care of Product on site**

Carefully unload all components and stack in a secure and safe dry area. When opening boxes or wrapping take care (especially if using a knife or similar object) not to scratch or dent the components. Check for any defects or damage and contact your supplier immediately. Do not attempt to use damaged components in your construction.

## **Fabrication of Sections on site**

Always make sure when using a cross cut saw the blade is sharp and it is fixed on a bench securely.

Leave a clear safe area for other site users of at least one metre around your work area.

Keep all benches or other working platforms clean so when fabrication is undertaken damage to the sections will not occur.

When carrying or fixing glass please make sure your working area of at least three metres is completely clear. Glass must be stored in a safe area away from any walk ways.

## **Job Completion**

Once the partitions are complete using a mild detergent solution wipe down the partition making sure that all stains and pencil marks are removed. Leave the site clean and tidy.



## ERECTION SEQUENCE of Crystal FULLY GLAZED ELEVATION

### GENERAL

**CRYSTAL** in fully glazed is constructed differently to standard systems which are just a few isolated aluminum sections designed as a basic framework to support the glass. This type of system requires abutments and junctions with other types of elevations or systems where a mix is required to be made on site or bespoke designs for each project, which does not allow the architect or designer freedom in their design. With Crystal this is overcome with full integration with the Finesse and Crystal DG systems giving the flexibility to design your project without limitations.

### INSTALLATION

1. Set out as per your drawing for the head & wall channel (CA620) for ceiling and abutments using a chalk line.
2. When setting out the base section (CA600) make sure to allow for the main section (CA630) to go from the ceiling channel to the floor at door modules, where door frames (CA650, CA655 & CA656) are being used. So that the base section (CA620) butts up against the main section (CA630).
3. If the partition specification requires a higher level of sound performance, before fixing the head and wall channel (CA620) insert a neoprene seal as indicated in the Crystal technical manual (from versions 2.32).
4. Using suitable fixings carefully fix the head channel first (CA620) drilling where the section is marked with a shallow “V” making sure not to damage the section with the chuck of your drill. Also at each joint fix the jointing plates (CB80) into the end of that channel. This ensures a square and flush face to that joint and no movement when inserting and fixing into place the glass.
5. Once the head channel is completed fix the wall abutments (CA620) into place using suitable fixings. Making sure where the wall channel meets the head channel the fixing bracket (CB60) is fixed to keep the joint square and tight. Once again take care and drill where the section is marked with a shallow “V” making sure not to damage the section with the chuck of your drill.
6. Now fix the base section (CA620) directly to the floor. Making sure the fixing method is agreed with the architect or client first. At each joint fix the jointing plates (CB80) into the end of that channel. This ensures a square and flush face to that joint and no movement when inserting and fixing into place the glass. Make sure it is fixed into the correct position so as not to impede the base bead (CA610). It is recommended to use a small piece of base bead as a guide when fixing jointing plates and brackets onto the base section.
7. If full height door frames are being used measure the main section from floor to ceiling carefully and fix into place using two fixing brackets (CB60) fixed either end securely.
8. Always silicon the main section (CA630) to the inserted glass as this is required to give structural stability to the door frame as indicated in the Crystal technical manual (from versions 2.3). Without this, the section will twist and movement will be unacceptable.
9. Now measure the glass take a measurement from the inside of the head track (CA620) to the inside of the base section and deduct between 5 - 10mm depending on the sites levels plus the depth of the glass packers being used.
10. Make sure when measuring the glass for width allow for the glass to be inserted the full or nearly the full depth of the wall channel. This will give a stronger construction when finished.



11. Once the glass has been installed clip into place the base bead CA610 and insert the outer gaskets both sides using either the CG110 for 10 - 10.8mm glass or CG120 for 12 - 12.8mm glass. When installing 15mm glass insert CG120 on one side only.
12. Now that your partition is completed, using a mild detergent solution wipe down the partition making sure that all stains and pencil marks are removed.

