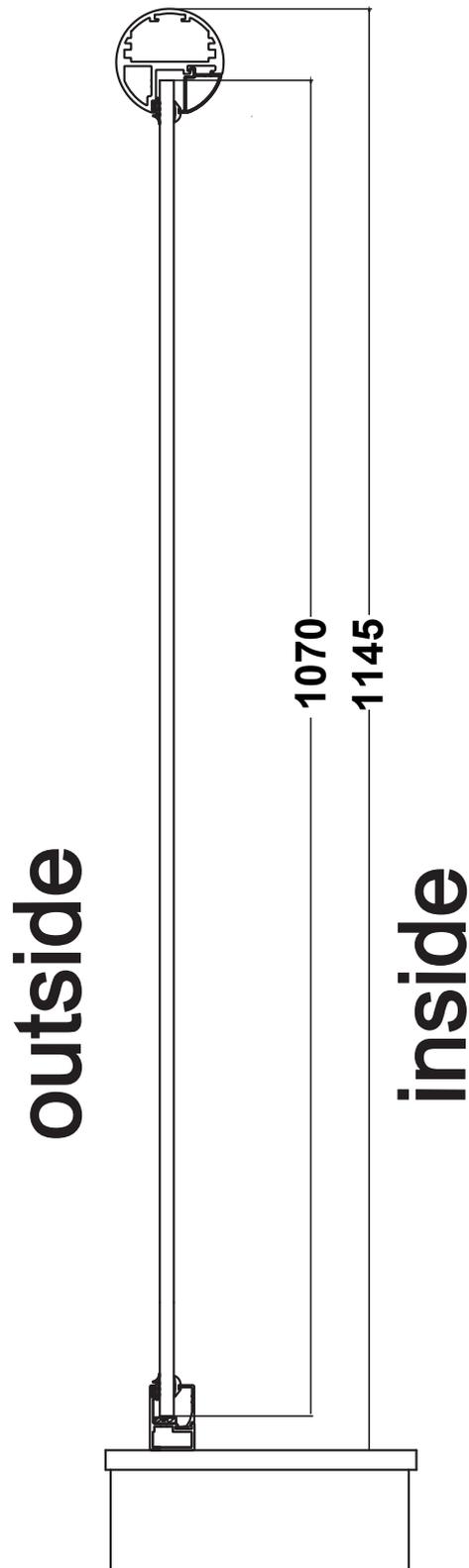


## Orbit System Glass Balustrade Installation Instructions

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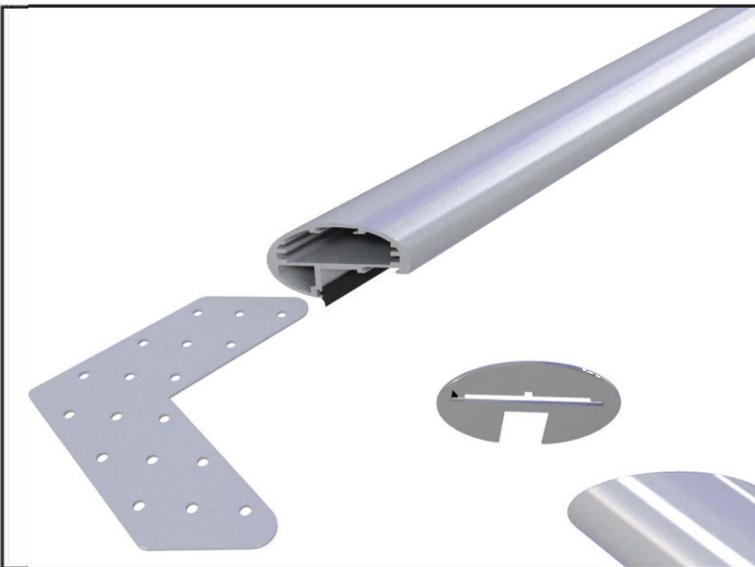
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Eastbourne Road,  
Blindley Heath, Lingfield,  
Surrey, RH7 6JP,  
United Kingdom

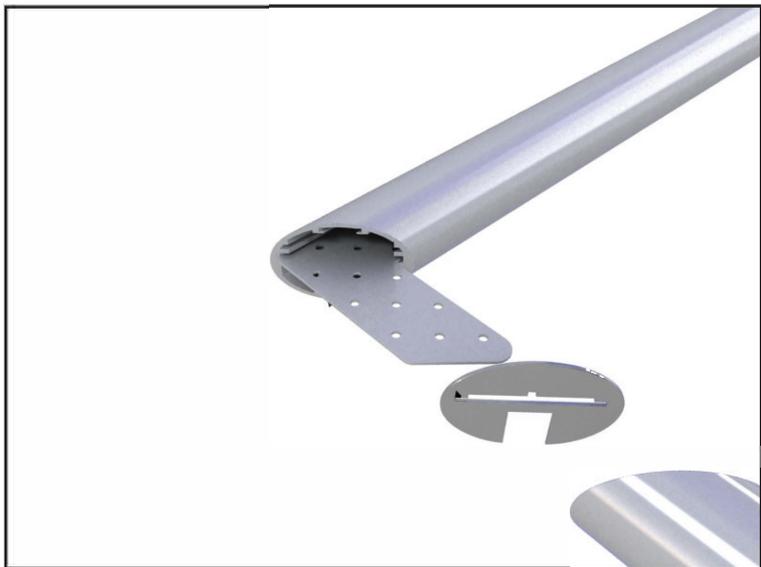
- Check you have all the parts of the order.
- Check the height of the glass.
- Check the height of the posts.
- Check both these heights against the required height on site making sure they are correct before assembling.\*

\*Please note the indicated sizes in this document refer to our standard height of such systems.

\*Do not scale from the drawing in this document.



1 Prepare to assemble the handrail corner



2 Slide corner joint plate into one of the handrails



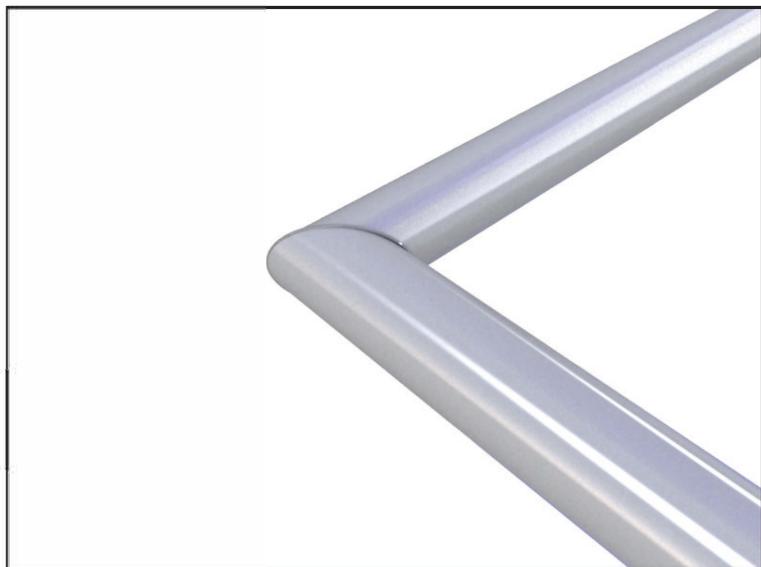
3 Tighten the screws



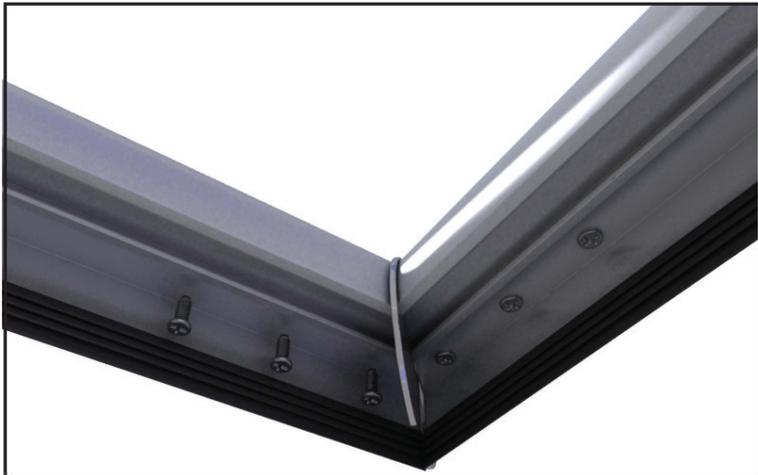
4 Tighten the screws



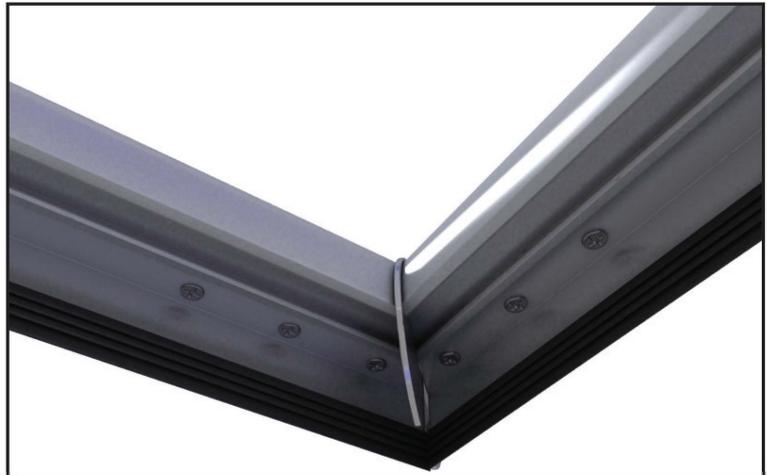
5 Slide mitre plate onto corner plate



6 Bring handrail to butt up to mitre plate



7 Tighten all screws



8 Tighten all screws. In this fashion join all handrail parts together.



9 Place handrail on the floor in position to make sure the dimension and shape fit



10 Mark lines for later positioning of bottom track



11 Position the primary steel post/s in the correct position



12 Fix the post/s firmly to the structure



Use the appropriate fixings (Post fixing 13 can be done at primary stage by locating the posts using measurements)



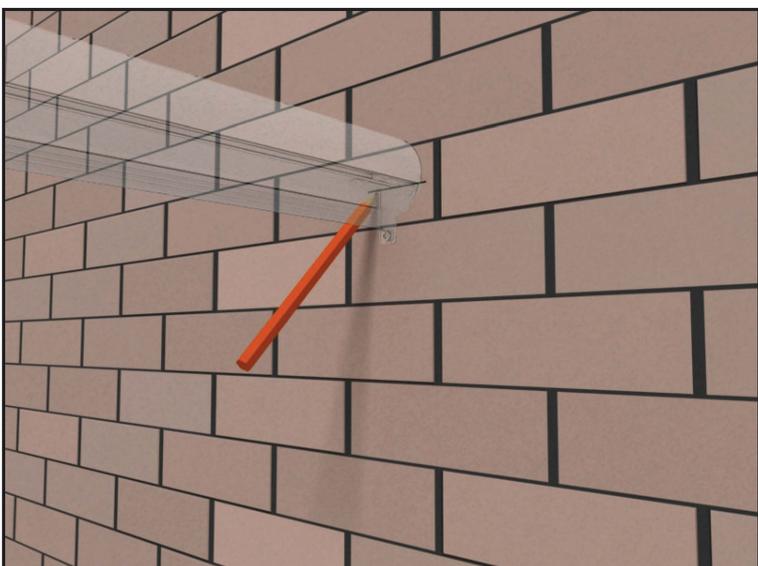
14 Finish the flooring, decking, screed, floor finish etc. to the required height. This should conceal the base plate and bolts



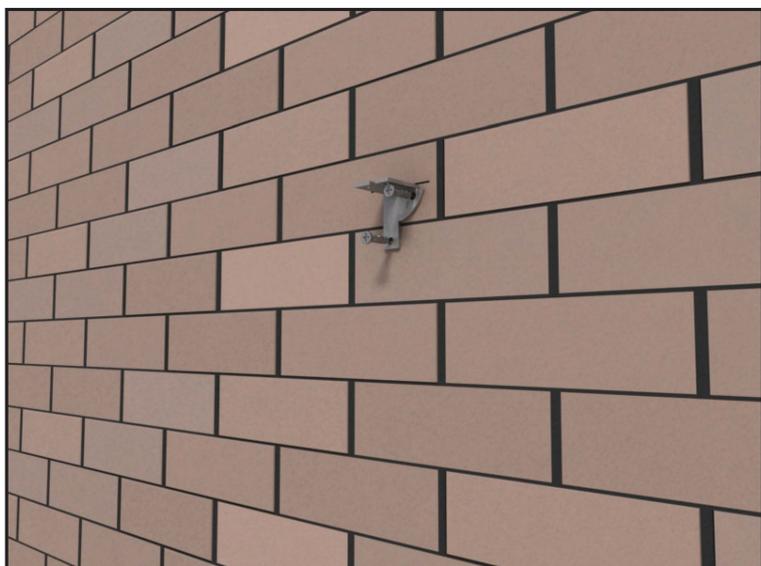
15 Apply a thick bead of silicone sealant around the primary steel post in a spiral fashion



16 Slide the system cover post onto the primary post



17 Using a level mark the position required to fix the wall fixing bracket.



18 Use the appropriate fixings.



19 Secure the wall bracket to the wall.



20 Bring the handrail into position



21 Drop the handrail onto the angle bracket



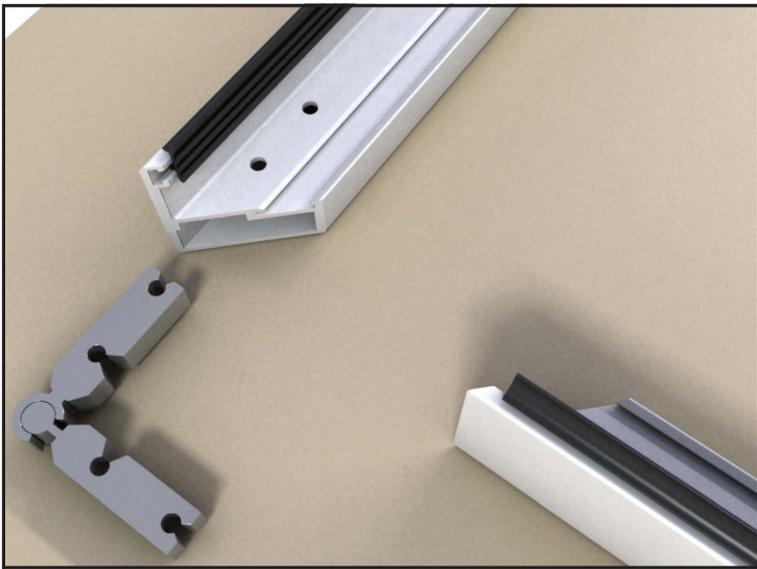
22 Drill 4mm holes through brackets in the handrail. Fix the handrail to the wall bracket using the No. 10 x 3/4" S/tapping screws



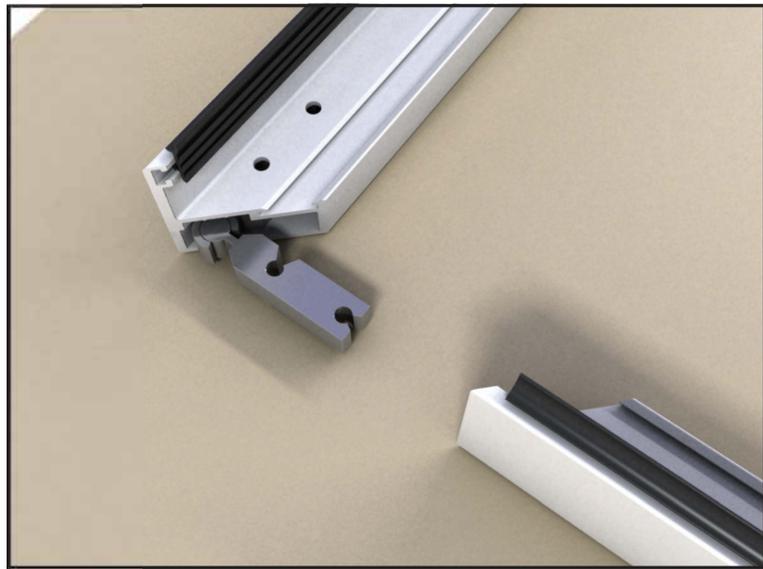
23 Handrail connector fits into top of post



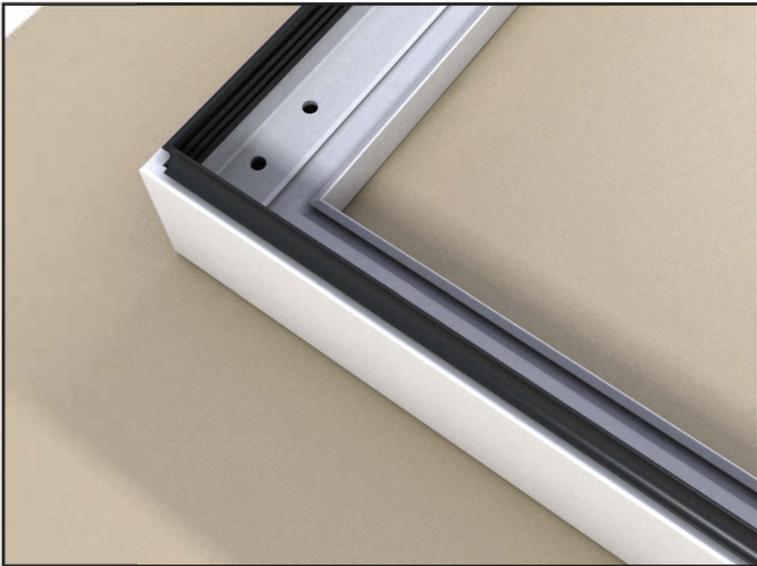
24 Fix the post into the post connector using the M5 screw provided



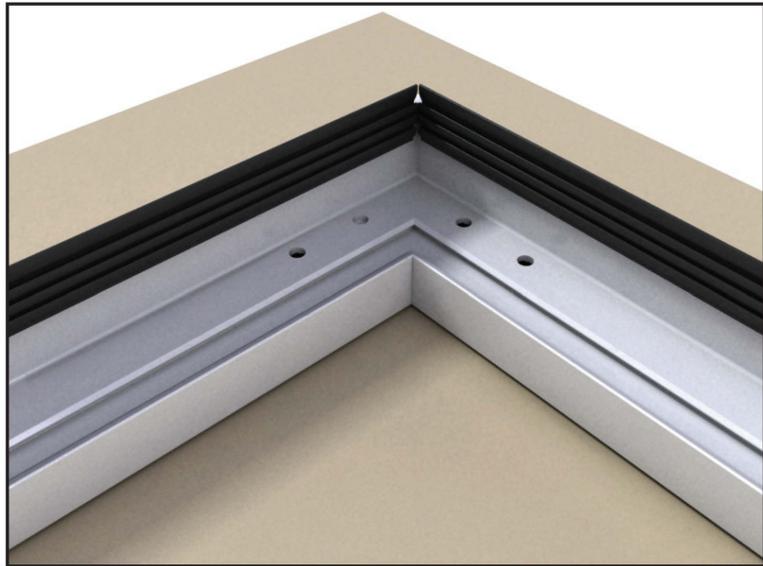
25 Prepare to assemble the bottom track



26 Slide the corner joint in one of the bottom rails.



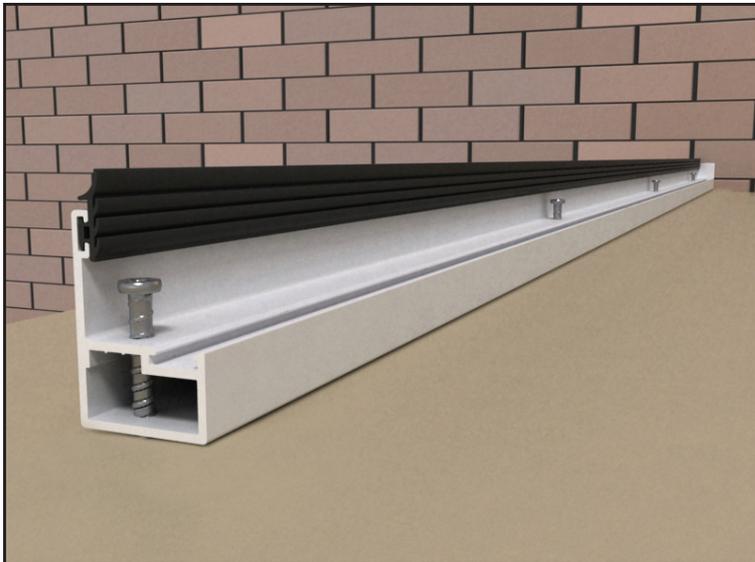
27 Insert into the other bottom rail corner



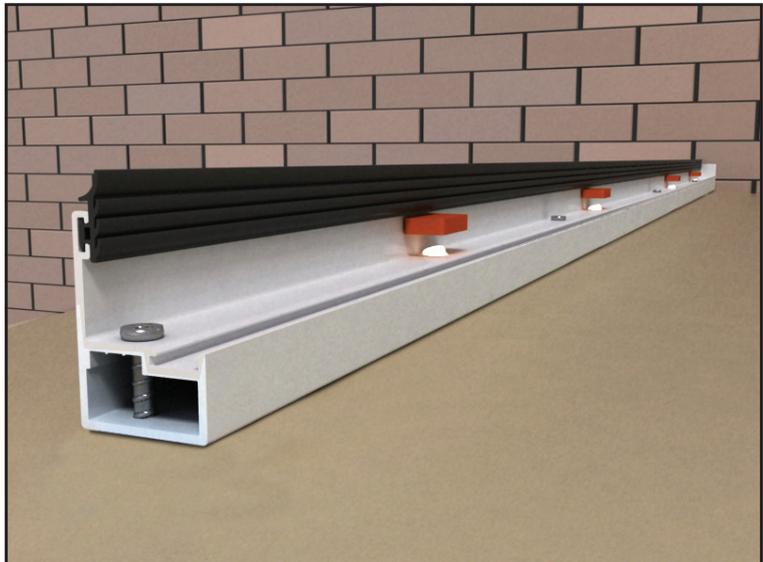
28 and tighten the screws



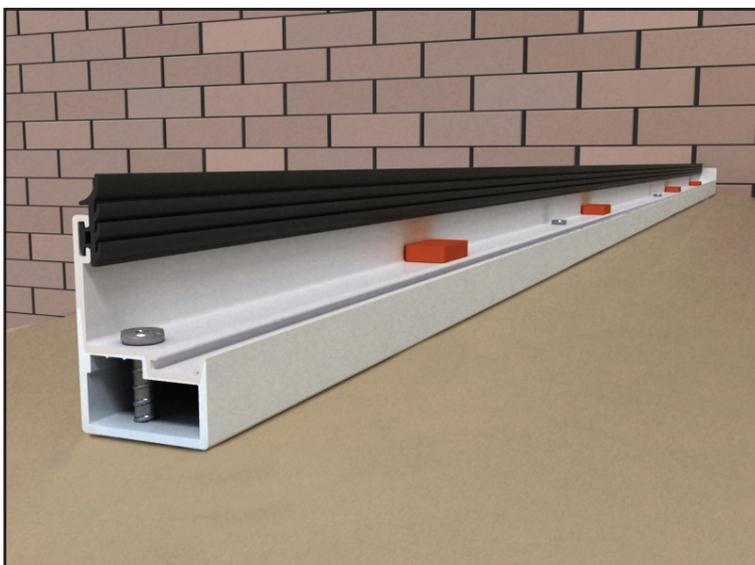
29 Place the bottom track into position.



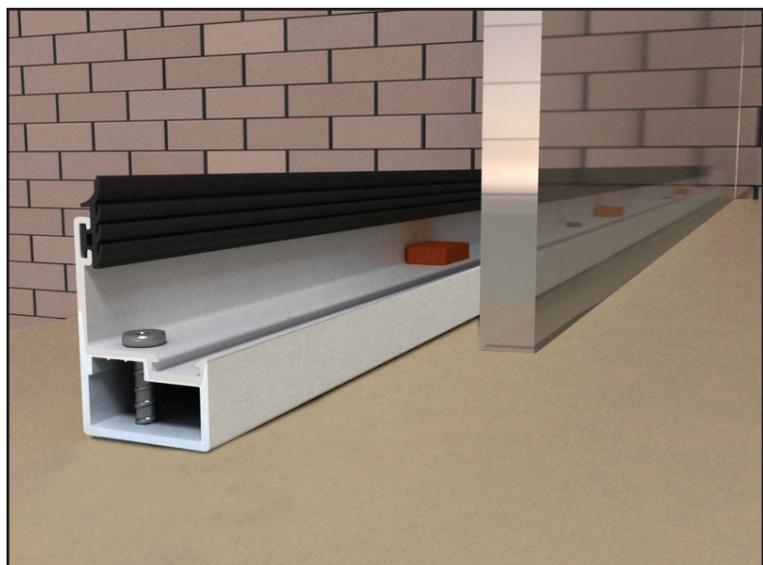
30 Drill into the floor/structure through the bottom rail to fix it.



31 Place two 5mm (orange) spacers per required glass panel onto the bottom rail



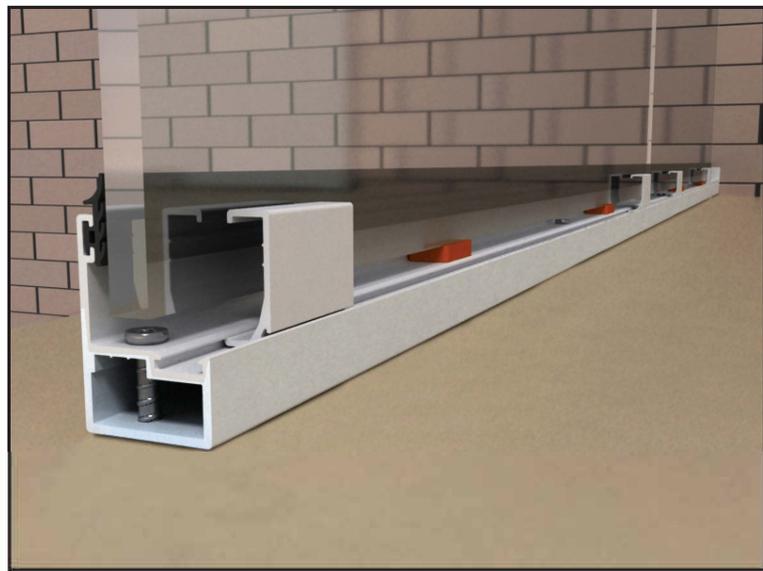
32 Use silicone to stick them to the bottom rail



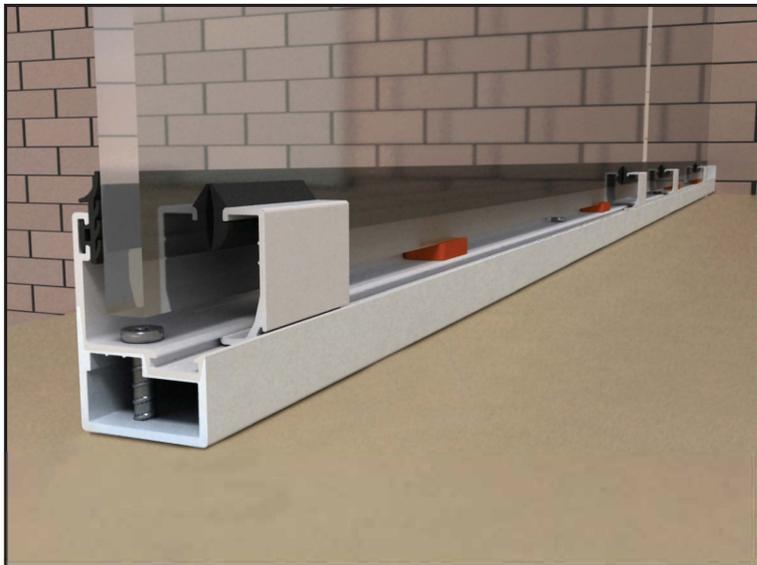
33 Identify glass sizes and where they are to go



34 Place one glass panel at a time into position



35 Use the short pieces of glazing bead to temporarily hold the glass in position



36 Use 3mm rubber gaskets to hold the glass against the small bead pieces



37 Place the spacers so the handrail doesn't sit on the glass



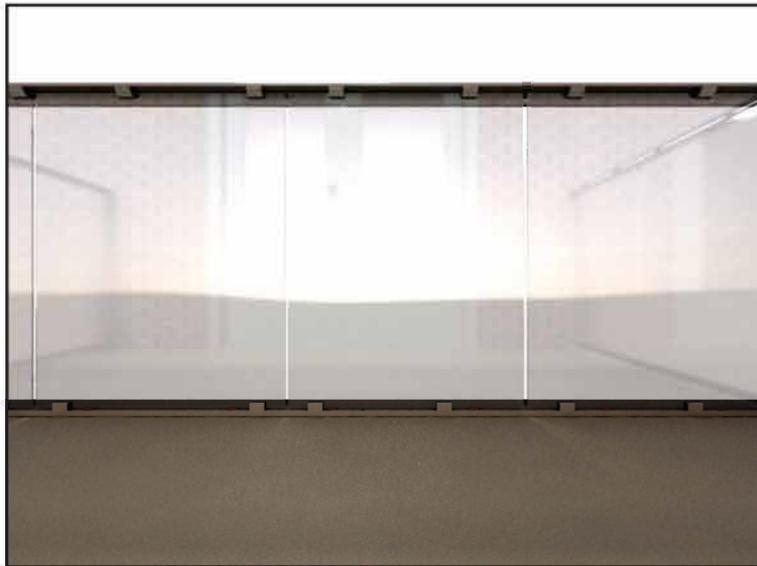
38 Use the short pieces of glazing bead to temporarily hold the glass in position



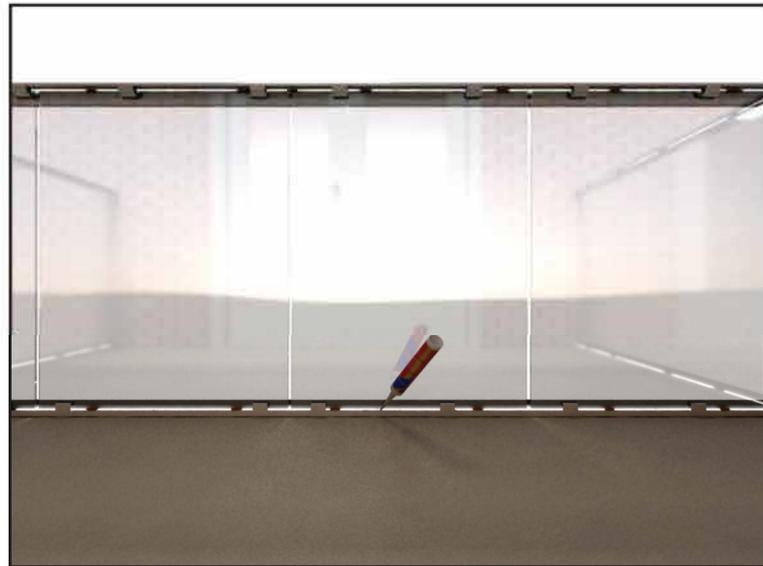
39 Use 3mm rubber gaskets to hold the glass against the small bead pieces



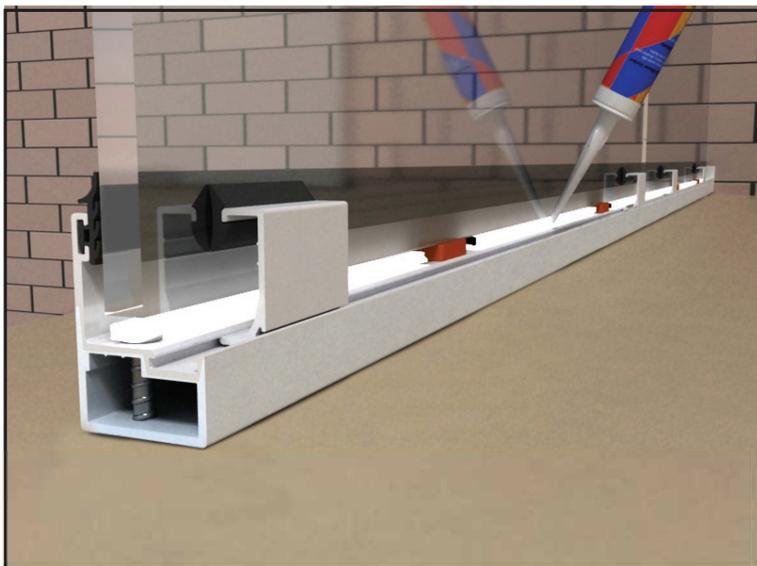
40 Use 3mm rubber gaskets to hold the glass against the small bead pieces



41 Align all the glass panels to have correct gaps. Use the glazing packers to lift one side or the other if needed



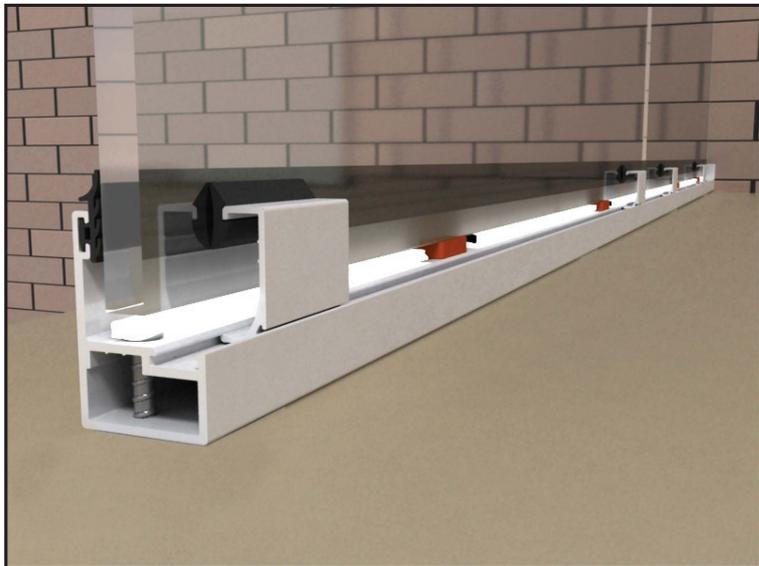
42 When everything lines up and all correct silicone it all.



43 Apply a thick bead of high quality silicone sealant to continuously fill the gap between bottom of glass and bottom rail



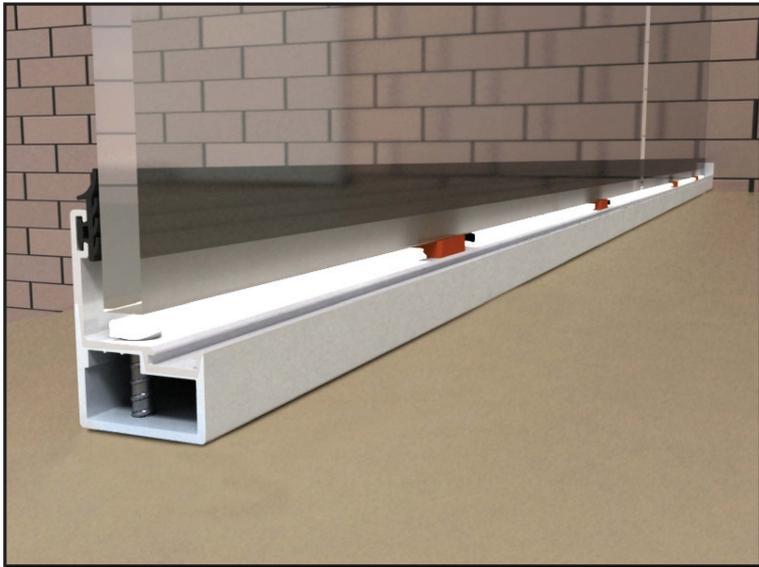
44 Apply a thick bead of high quality silicone sealant to continuously fill the gap between top of glass and handrail



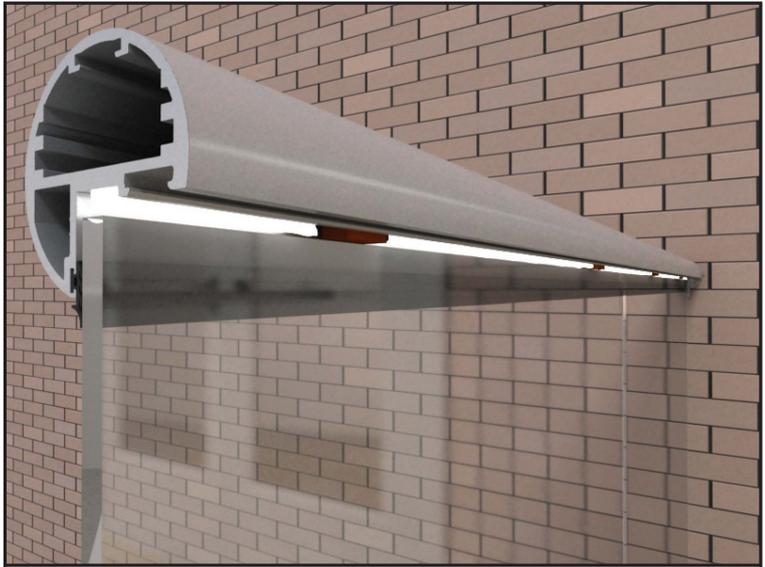
45 Wait until the silicone is completely dry



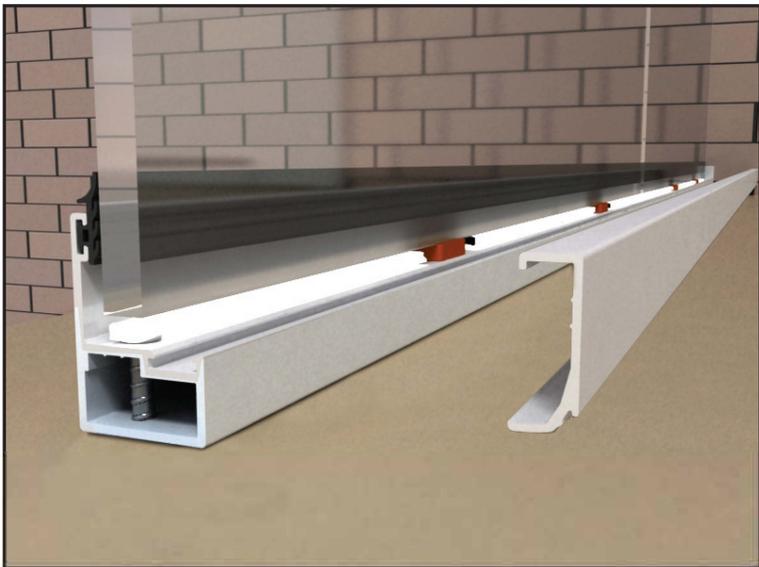
46 Wait until the silicone is completely dry



47 Remove the temporary glazing beads and rubber gaskets



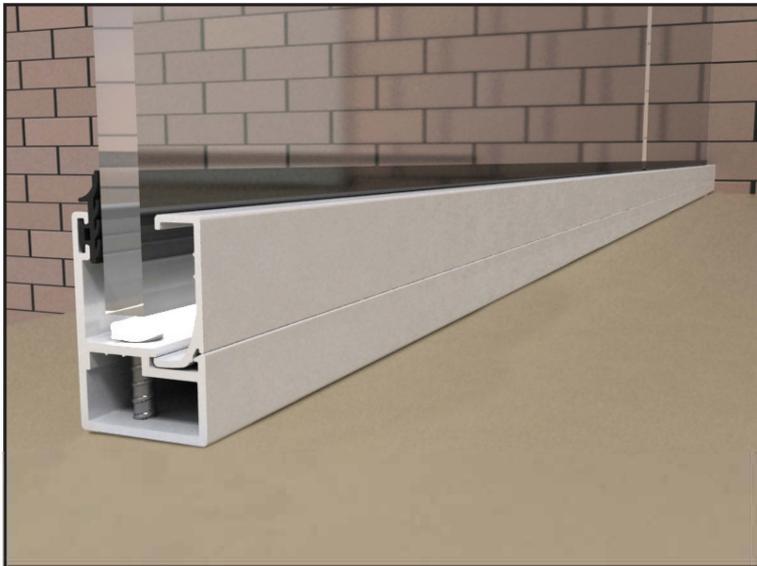
48 Remove the temporary glazing beads and rubber gaskets



49 Replace the full length glazing beads



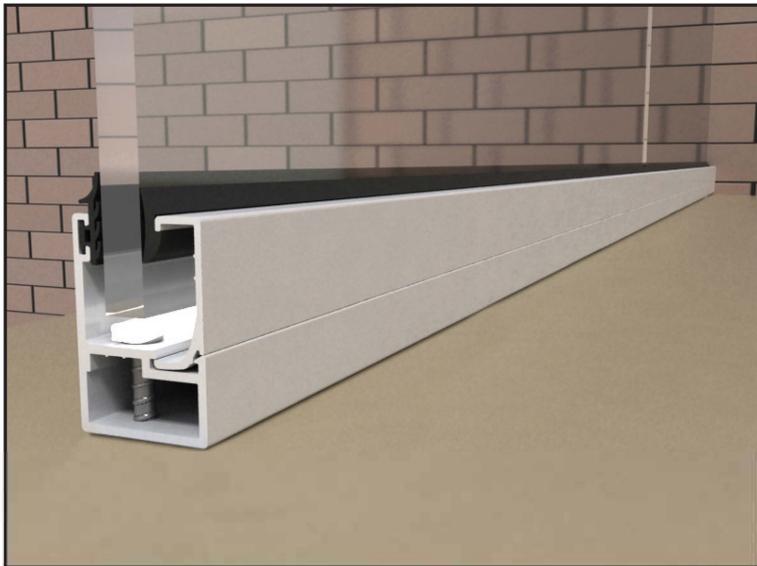
50 Replace the full length glazing beads



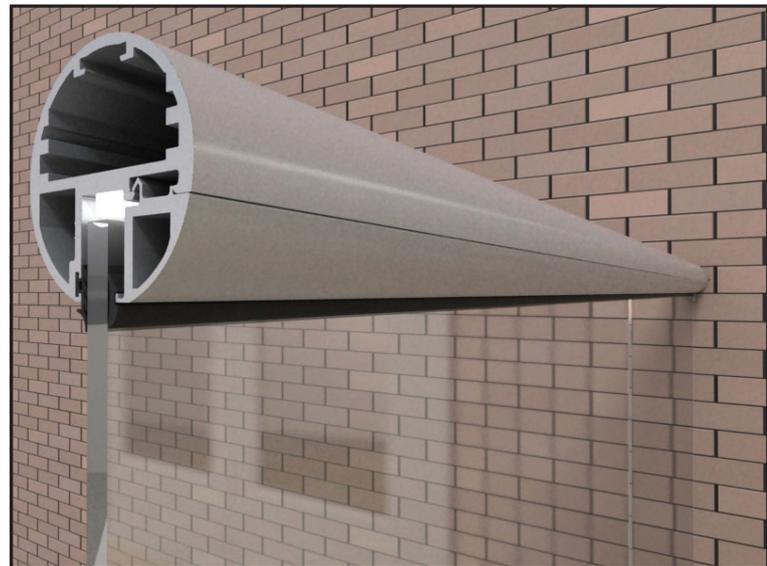
51 Replace the full length glazing beads



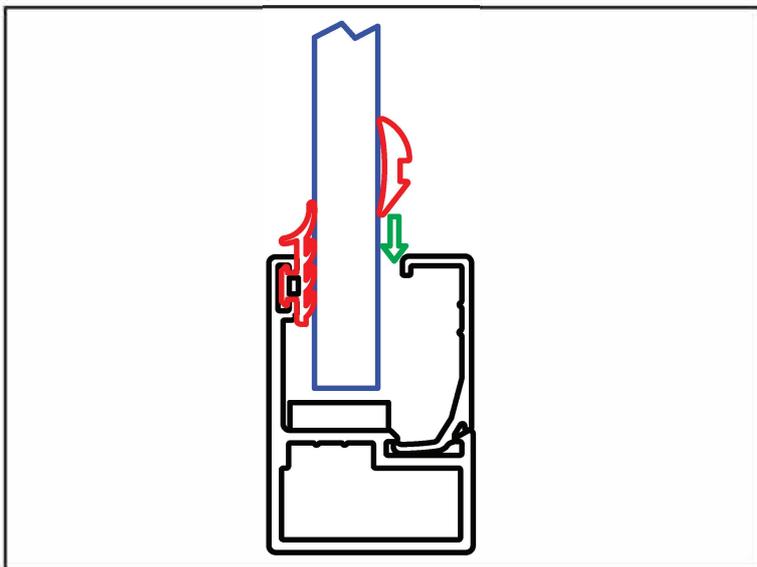
52 Replace the full length glazing beads



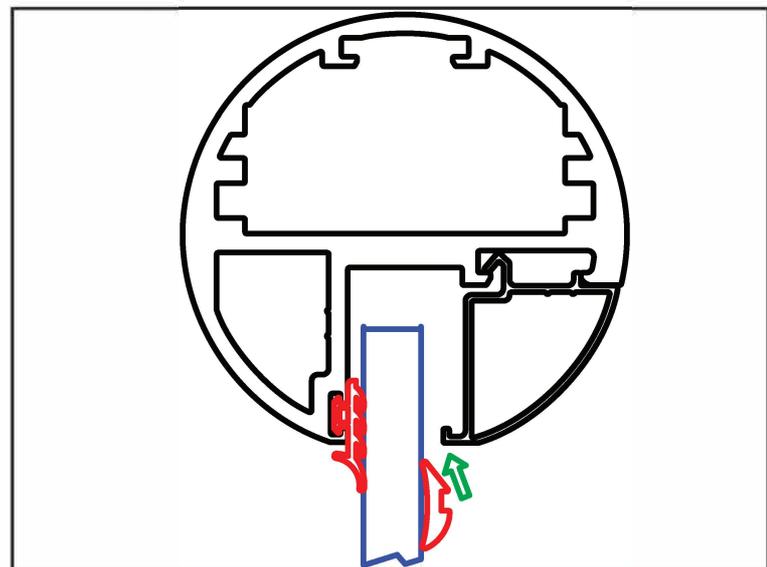
53 Strengthen the grip with rubber gaskets



54 Strengthen the grip with rubber gaskets



55 Using soapy water can make it easier to push rubber in



56 Using soapy water can make it easier to push rubber in

## Additional options

5mm packers under bottom rail



57\* Drill into the floor/structure through the bottom rail to fix it.



58\* If required, place 5mm aluminium spacers under the bottom rail



59\* Place the spacers so the groove lines up with the screws

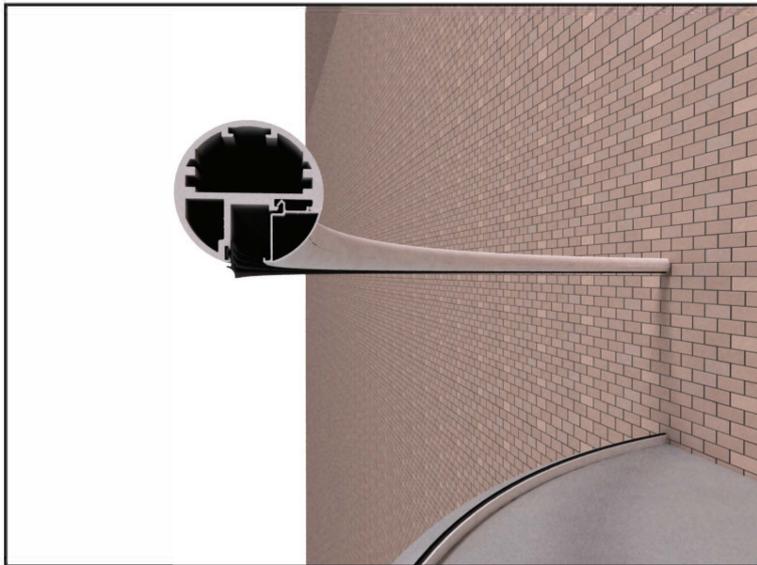


60\* Tighten bottom rail to the floor

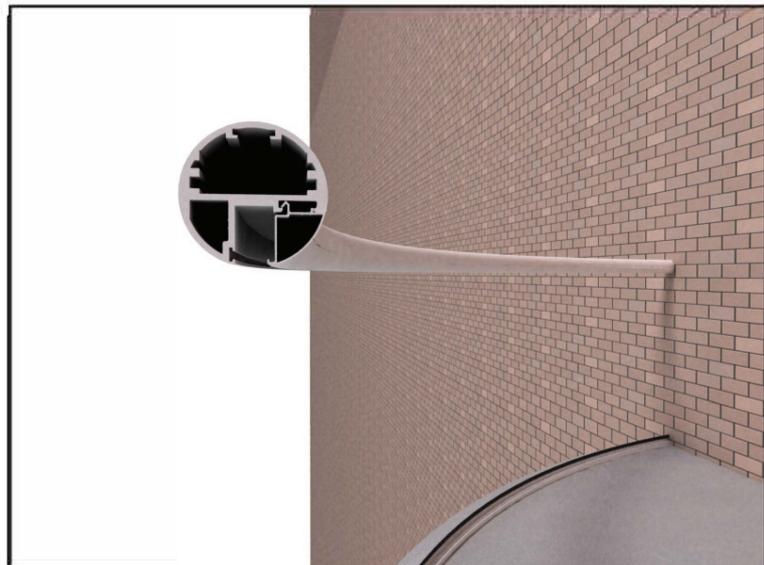
## Additional options

### Curved handrails/balustrades

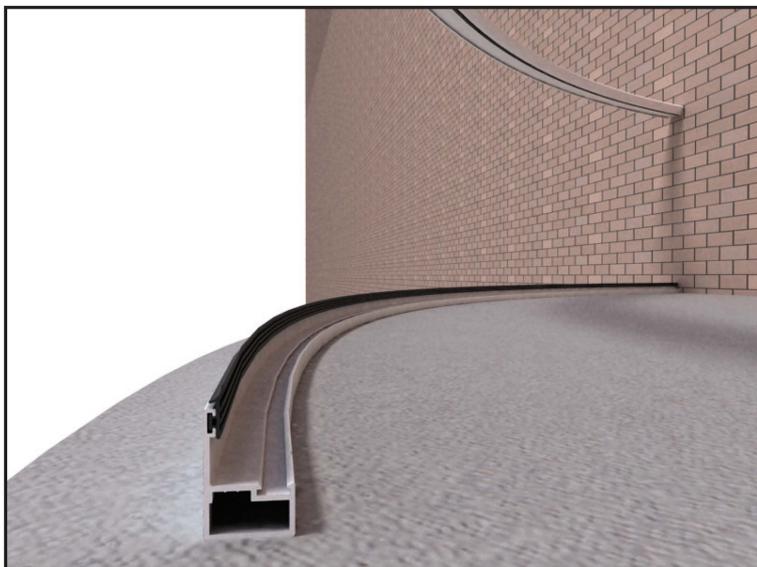
On occasion it is difficult or not possible to remove the glazing bead, in these cases follow this procedure



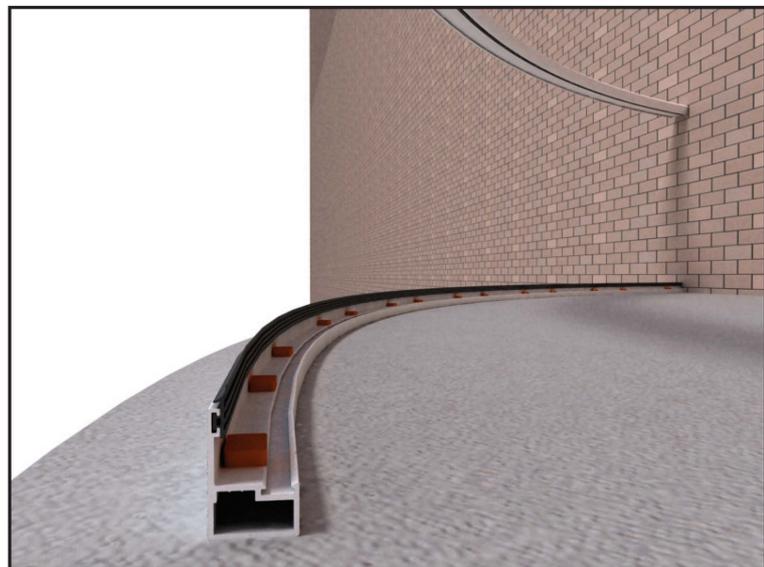
61\* Leave the handrail glazing bead in position



62 \* Remove the rear fixed rubber from the handrail



63 \* Remove the glazing bead from the bottom rail



64 \* Place two orange 5mm packers per glass on the bottom rail



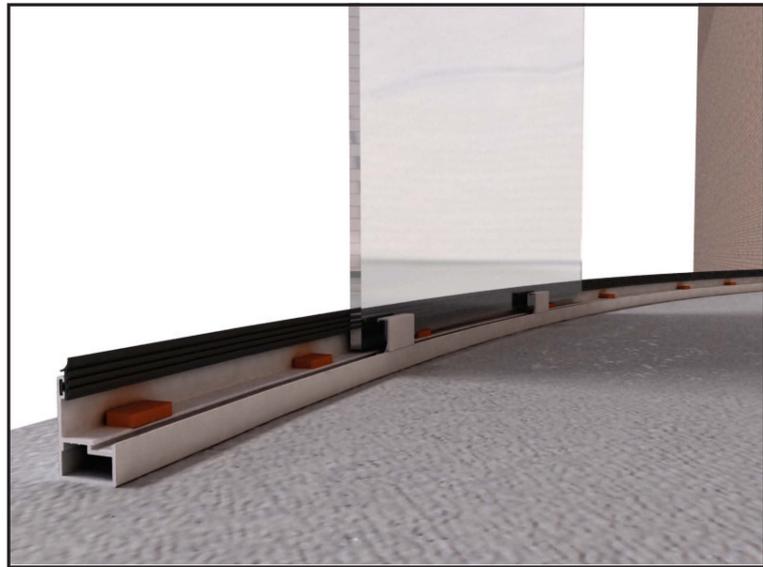
65 \* Identify the glass panels and where they should go



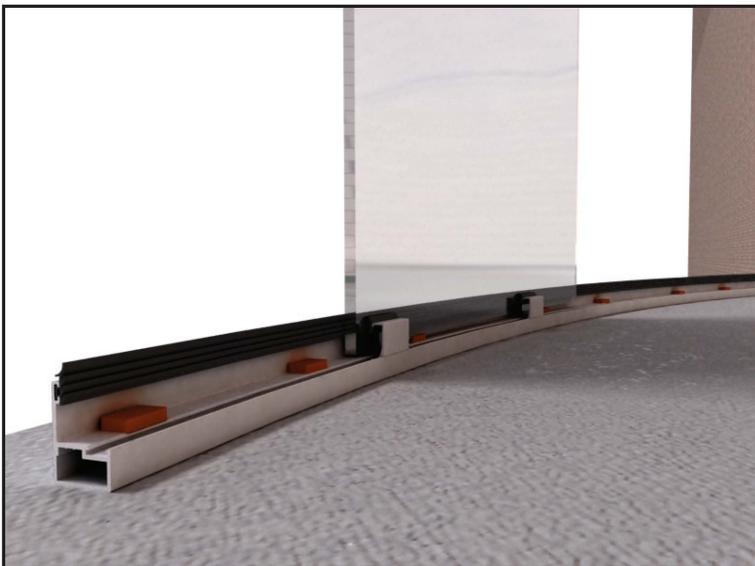
66\* Taking one glass at a time insert the panel upwards into the gap between the glazing bead and handrail



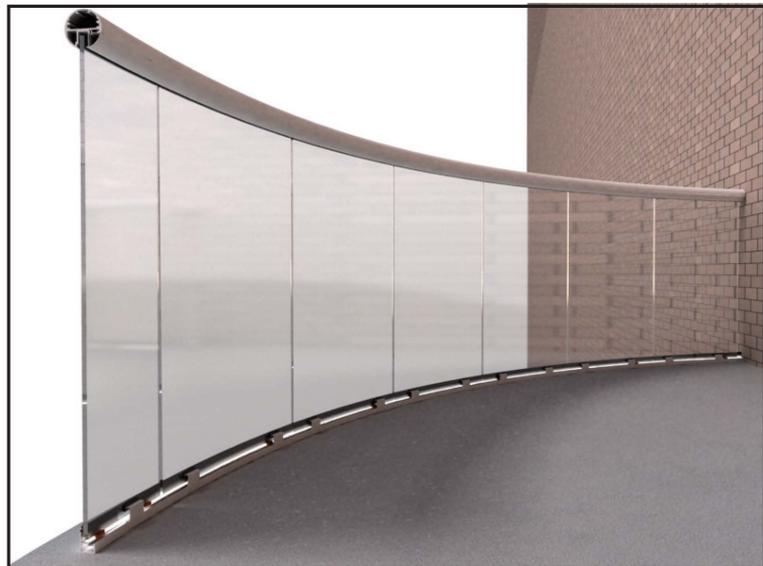
67\* Lower the glass back down onto the orange packers



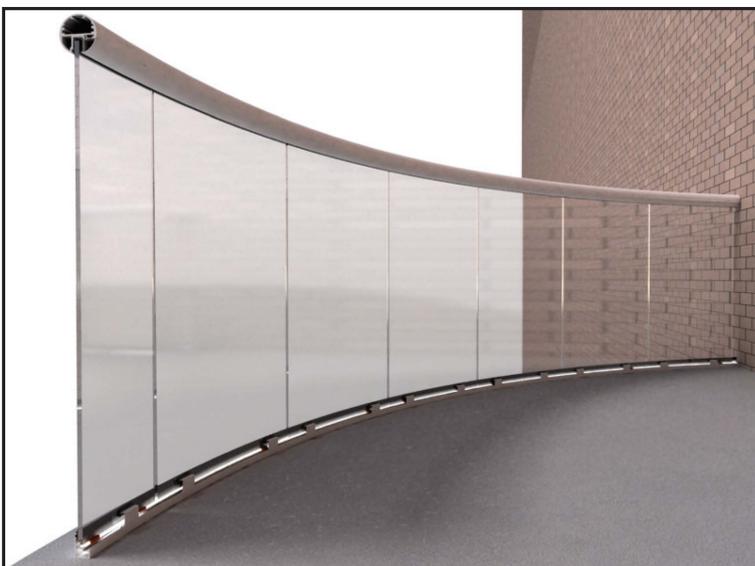
68 \* Place small temporary glazing beads on the bottom rail, two per glass panel



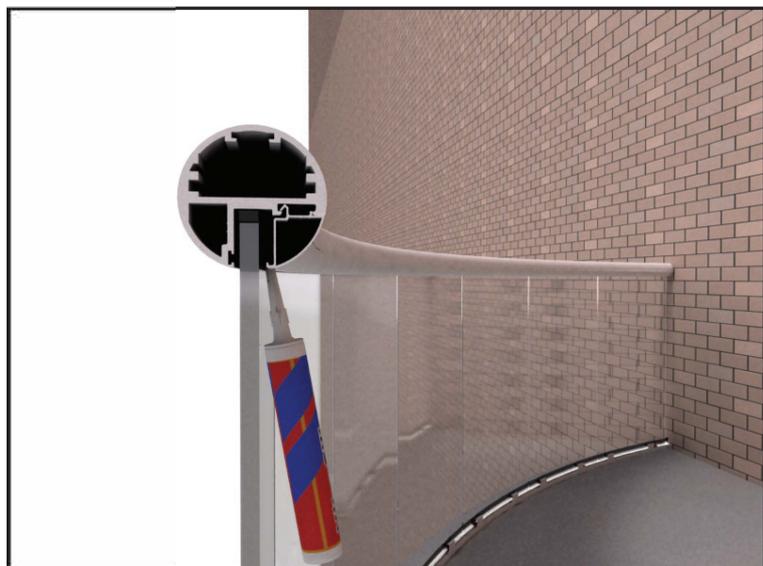
69 \* Push in 3mm rubber to hold them firmly against the glass



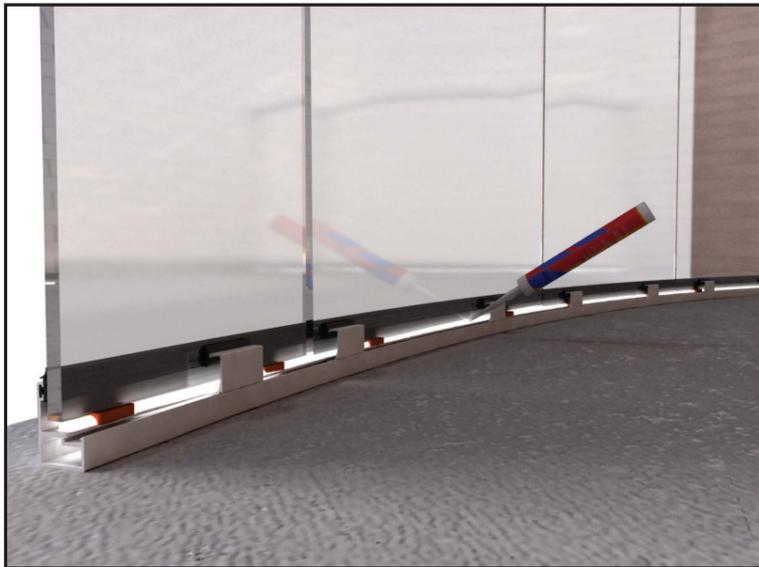
70\* In this fashion, one at a time insert all the glass panels



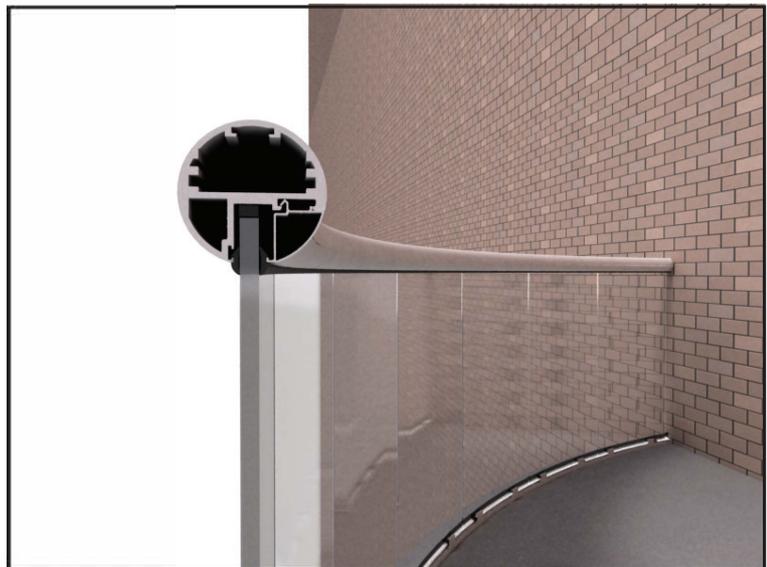
71\* Align all the panels and gaps



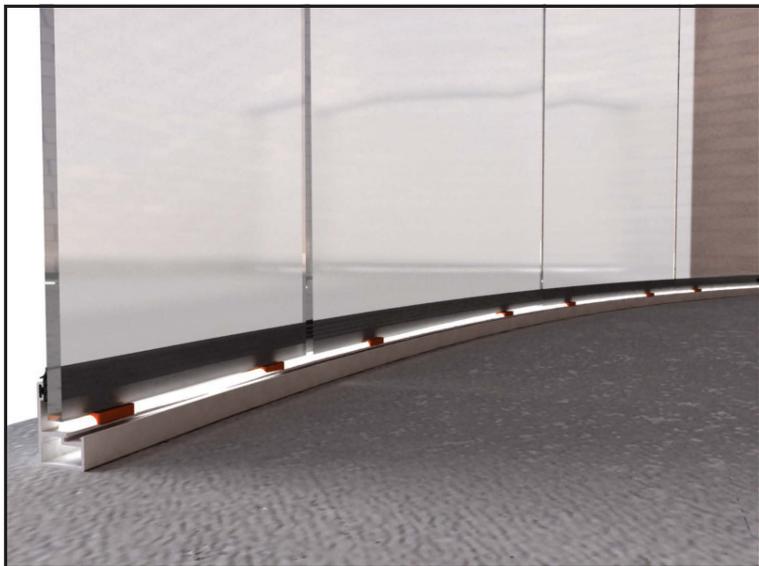
72 \* Inject silicone by pushing the silicone nozzle into the gap between the bead and glass and pushing silicone upwards into the cavity



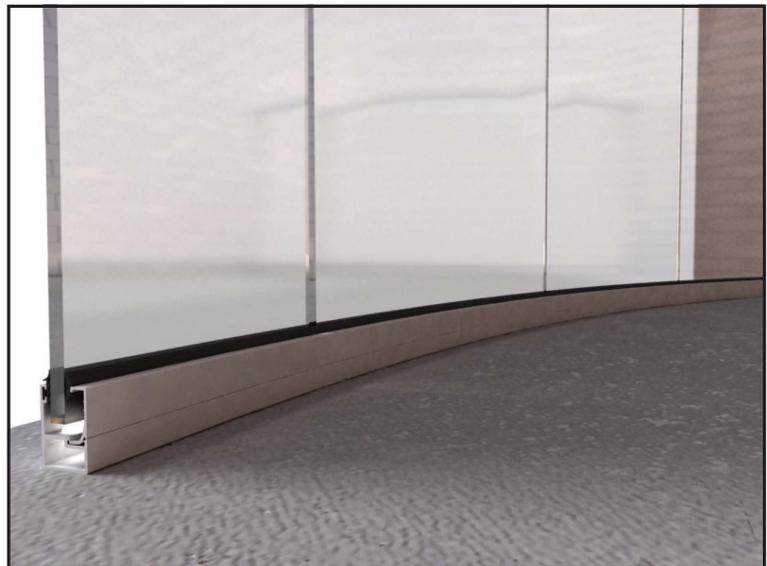
73 \* Apply a thick bead of high quality silicone sealant to continuously fill the gap between bottom of glass and bottom rail



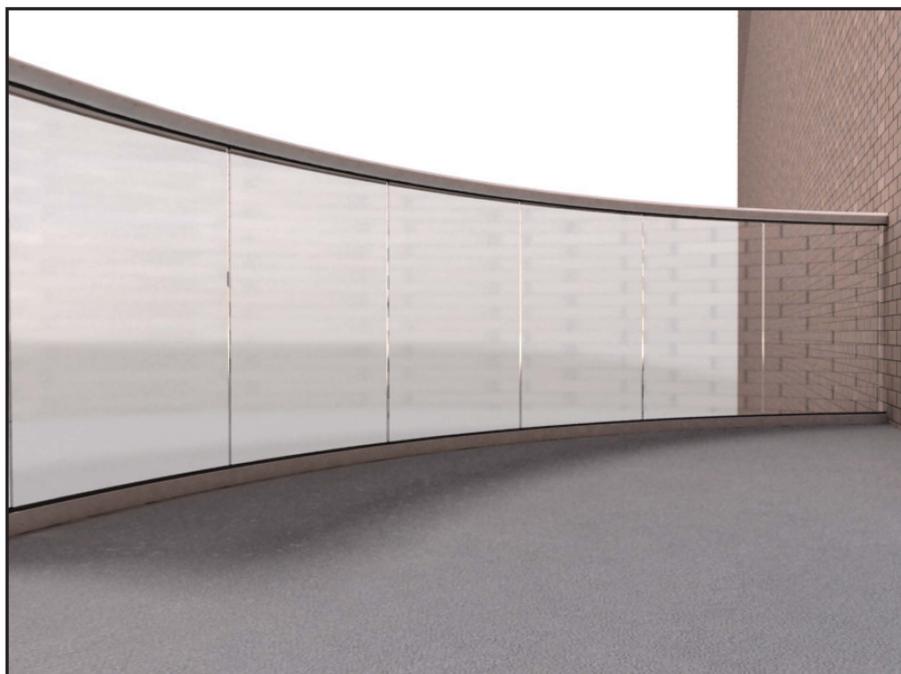
74 \* Glaze the top rail using 3mm rubber both sides (not the fixed rubber, but same as internal rubber both sides)

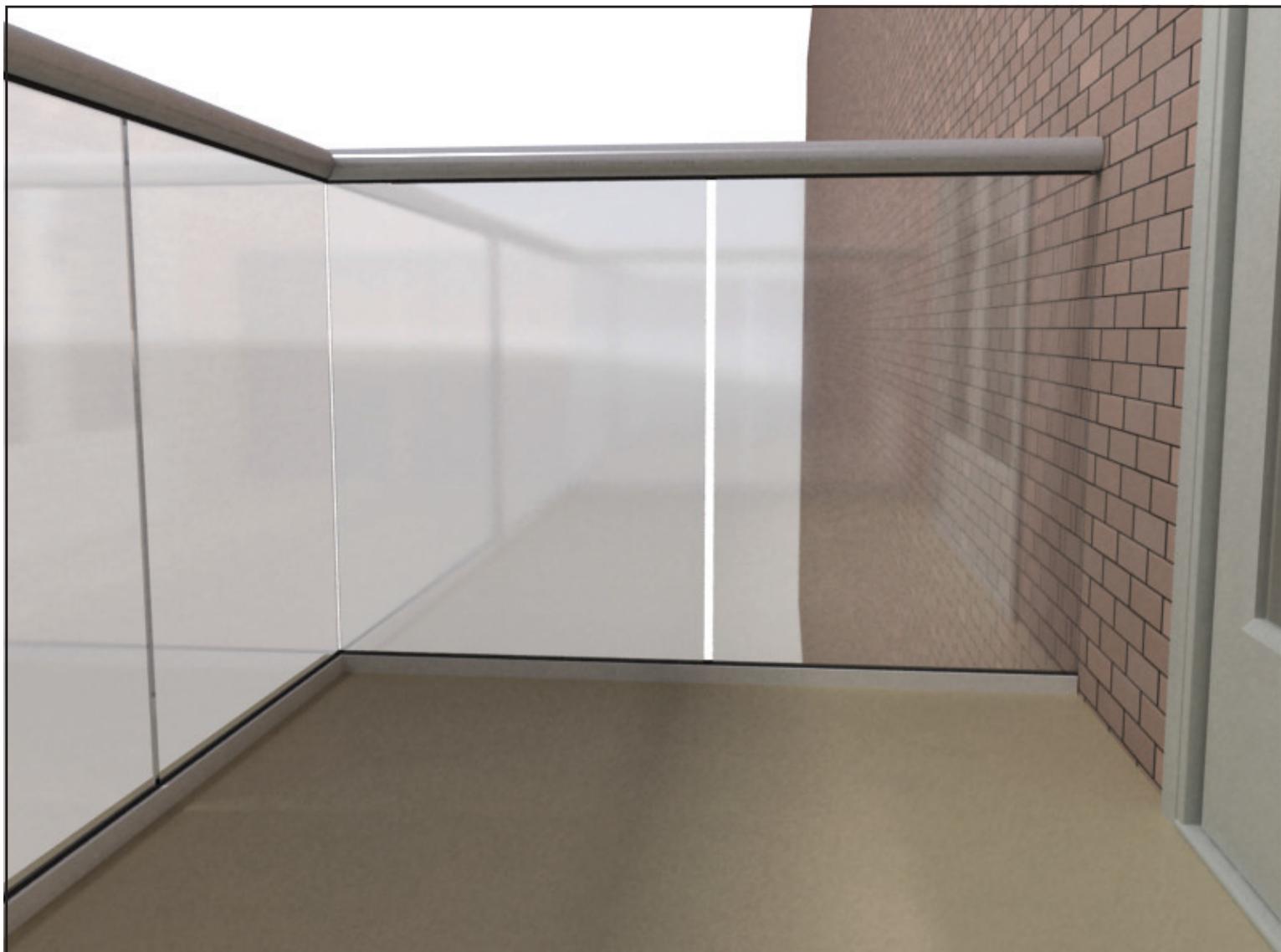


75 \* Once the silicone is dry on the bottom rail remove the temporary beads and replace the full length curved bead.



76 \* Using the 3mm rubber glaze the bottom rail bead against the glass





# Balconette

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