

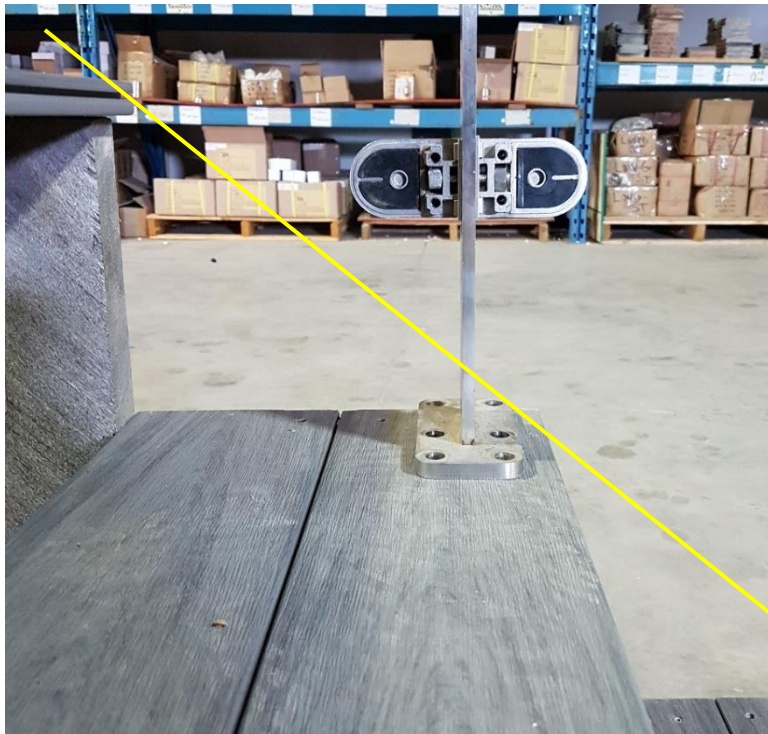
Invisirail Glass Stair Templating Instructions

- a) Cardboard is typically provided with orders to use for templating.
 - o Alternatively, you can use hardboard (i.e. Masonite) or plywood or similar material to use for templating.
- b) Helpful tools for templating:
 - o Box cutter / knife to cut cardboard OR saw to cut hardboard or plywood
 - o Firm Straight edge (i.e. drywall square) [the longer the better]
 - o Pen and/or sharpie
 - o Bubble level (to ensure posts are plumb)

Additional tools that are not necessary but may be helpful:

- o Clamps to hold template material onto posts/connectors
- o ½" drill bit to drill out holes in template for connector pins (if using hardboard or plywood)
- o String line to help align the top/bottom edge of multiple panels down a long staircase

- 1) Install posts & connectors
 - o Do not install close to risers, but rather as close to step nosing as you can. As you can see below, the connector will be clear of the bottom edge of glass (yellow line).



- Below you'll see that the post is positioned too close to the riser which will not allow the bottom edge of the glass to be parallel to stair nosing line.



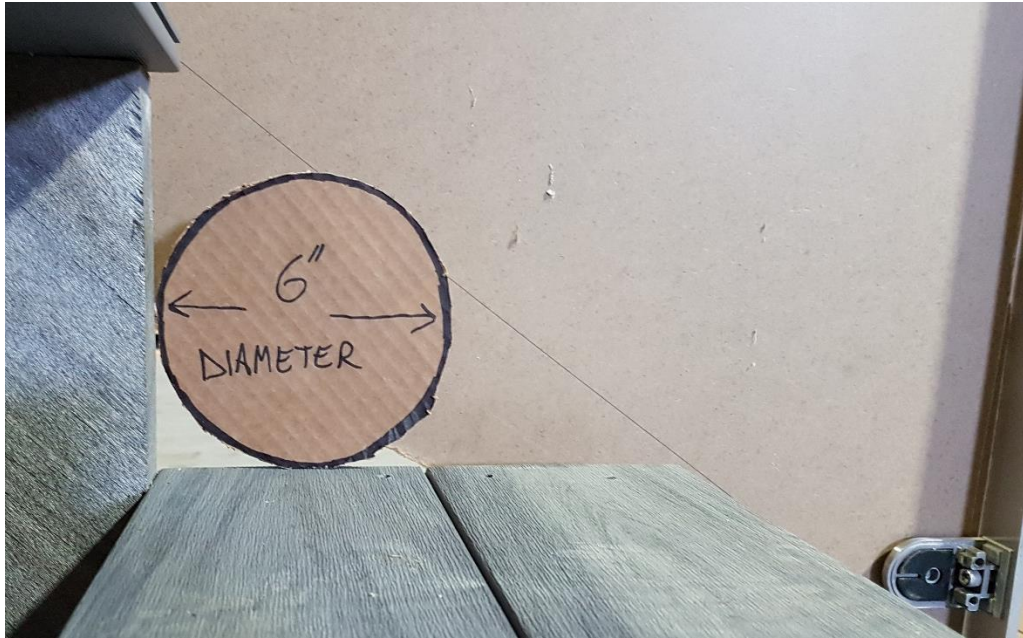
- Refer to layout drawing to confirm post configuration at top of stairs
 - Ensure posts are plumb
 - Ensure posts are no more than 60" O/C (horizontal) apart
 - Posts should be installed to allow for (near) equal sections of glass or whatever configuration is most aesthetically pleasing.
 - For square posts (without predrilled holes for connectors), Install the connectors in similar positions as the posts used for the main deck area. It is alright if small changes need to be made to these positions, as the holes & notches in the glass will be positioned wherever you indicate.
- 2) Clamp or hold template material in behind connectors, posts. It may be helpful to rest the bottom edge of the template material on stair nosing. Trace a line indicating the inside post edge. Trim such that template fits in between posts.





- 3) Draw line for bottom edge of glass. If the bottom edge of the template is resting on the nosing, draw a line parallel to nosing such that bottom edge of glass will sit above stair nosing. You should ensure that the bottom edge of the glass meets code and does not allow a 6" diameter ball to fit through the steps/rail.





- 4) Using a straight edge or string line, draw a line connecting tops of posts. This will represent the top edge of the glass. For a stair section with multiple panels, this may be easiest to do using a string line. If possible, this top edge should be parallel to the bottom edge of glass.



5) Trim top and bottom of template.



6) Trace the connectors onto the template.

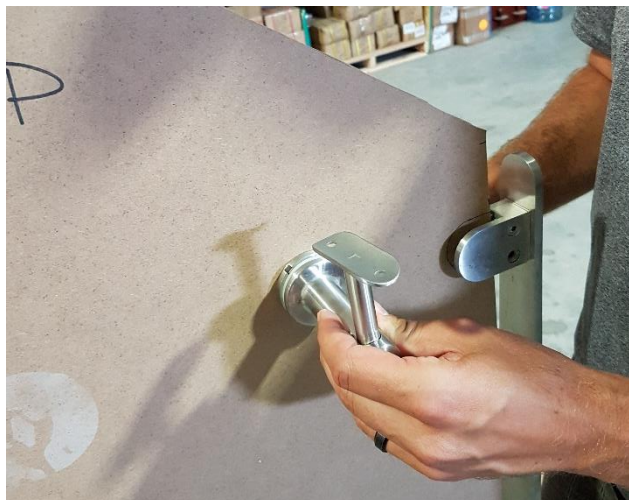


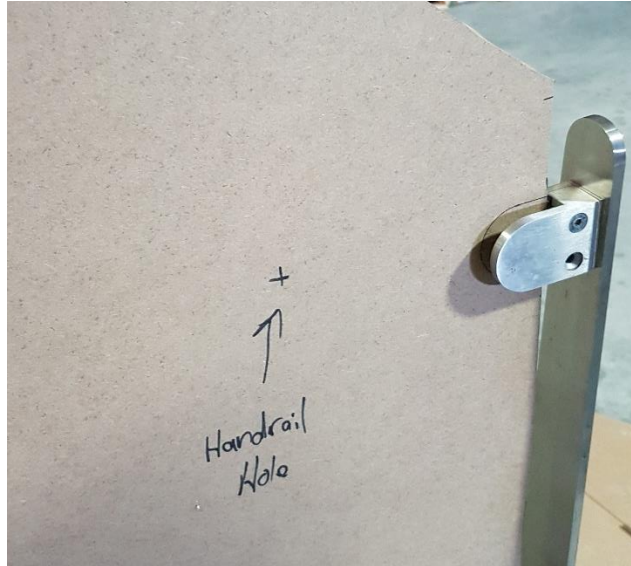
- 7) The back edge of the rubber pads is roughly where the edge of the glass will be. Trim the sides of the template such that the material represents the exact shape & size of the glass panel, this way the template can be installed as if it were the panel.





- 8) Annotate on cardboard the top/bottom edges of glass if not done so already.
- 9) If handrail will be installed with the *glass mounted* handrail brackets, please indicate where those holes for the brackets should be located.
 - Refer to handrail brackets if sent with shipment
 - Ensure location will allow for handrail to be installed at a height that passes local building code. Typically, handrail should measure 34"-38" vertically above the nosing line.





- 10) If there are multiple stair panels down the staircase, please indicate where the templates are located on the stairs (upper panel, middle panel, lower panel, etc.)
- 11) Custom glass panels will be made to the exact specifications of the template(s), except for the following:
 - Corners are made with a $\frac{1}{2}$ " radius to avoid sharp edges.



- Some holes or notches may be omitted from panel. Every panel should have at least 2 details (either 1 hole or 1 notch per side).
- 12) Please ensure that templates are not damaged, warped etc. before being sent to Invisirail. To try minimize the number of bends in the template if possible.
 - 13) If for whatever reason there are errors, potential issues with the templates provided (i.e. severely warped, curved edges, lack of info) Invisirail will notify you and may request for new templates to be sent.
 - 14) Please write the following info on the template:
 - Store name (where initial Invisirail order was purchased from)

- PO number / sales order number if applicable
- Date templates were made and/or sent out
- Contact info for creator of templates (name, phone number, email if applicable)
- Panel identification (i.e. upper panel 1/2, lower panel 2/2, etc.)

From the time the panels are received by Invisirail, it typically takes 3-4 weeks until the custom panels are completed and ready to ship. Templates provided will be double checked with the completed panel and sent with the custom glass.

If at any point during your installation you require assistance, feel free to contact us at:

Invisirail

1-905-852-3733

Toll Free: 1-888-681-9733

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