



LuMac
CANOPY SIDES & ENCLOSURES



Fixed Panel Enclosure

Fitting Instructions

(This is a two person job)

Tools Required:

- Drill
- Drill bits for metal and masonry
- PZ2 driver bit for driving in screws
- A metal saw for aluminium (either hand or mitre saw)
- A fine tooth saw for cutting glazing.
- Pencil
- Tape measure
- Spirit level

Components in your kit:

Per End:

1. Horizontal Posts that connect from the existing structure leg to the wall (Top & Bottom).
2. Post(s) that fit vertically between the horizontal posts.
3. Tie-bar brackets to connect the horizontal posts to the existing structure leg.
4. 'L' brackets to connect the horizontal posts (item 1) to the wall.
5. 'L' brackets to connect the vertical posts (item 2) to the horizontal posts (item 1) .
6. 'F' sections that fit around the perimeter of the glazing and fix to the posts (item 1 & 2).
7. Glazing – Either 6mm plate, or 16mm polycarbonate.
8. Self-Tapping screws (A2) for fixing all items together.
9. 16mm Aluminium tape for sealing the glazing panels.
10. 16mm breather tape for sealing the glazing panels.

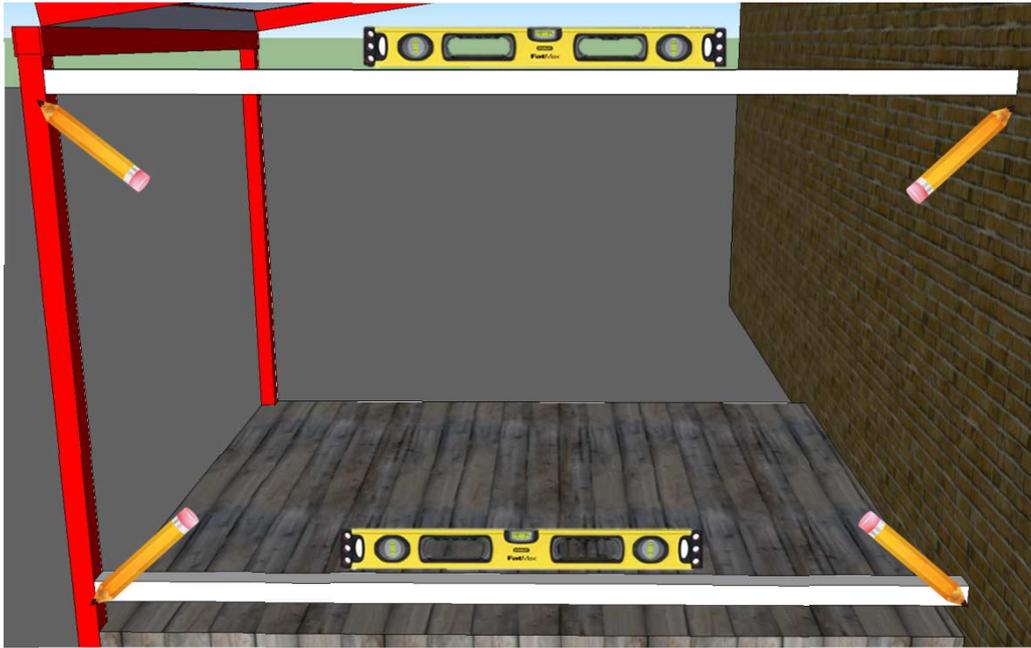
Per front opening:

1. Posts that connect between the existing structure legs (Top & Bottom).
2. Post(s) that fit vertically between the horizontal posts (item 1).
3. Tie-bat brackets to connect the horizontal posts (item 1) to the existing structure leg.
4. 'L' brackets to connect the horizontal posts to the existing structure leg.
5. 'L' brackets to connect the vertical posts (item 2) to the horizontal posts (item 1) .
6. 'F' sections that fit around the perimeter of the glazing and fix to the posts (item 1 & 2).
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Instructions:

1. Measure and cut the horizontal posts to length.
2. Mark the positions where the underside of the horizontal posts will fit to your existing structure / frame & wall (Diagram 1).
 - a. Make sure you leave at least a 100mm gap between the bottom horizontal post at the ground.
 - b. Make sure the horizontal posts are held level when marking the positions.

Diagram 1



3. Measure so the bracket is fixed central to where the post will meet the existing structure (Diagram 2).
4. Drill and screw a tie-bar bracket as shown (Diagram 3).
 - a. Make sure top & bottom brackets are straight and level so it ensures posts are in line when they are fixed to these brackets.

Diagram 2

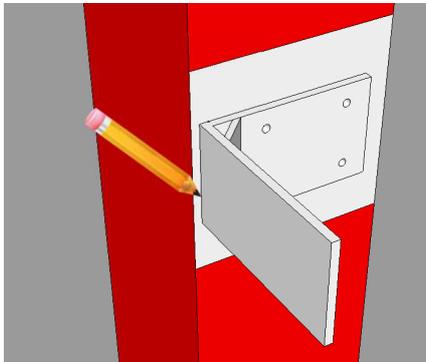
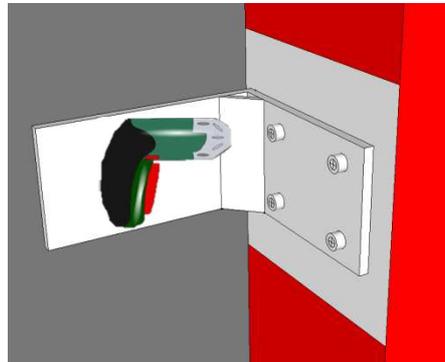


Diagram 3



5. Slot the horizontal post over the bracket (Diagram 4).
6. Drill and screw the horizontal post to the bracket (Diagram 5)

Diagram 4

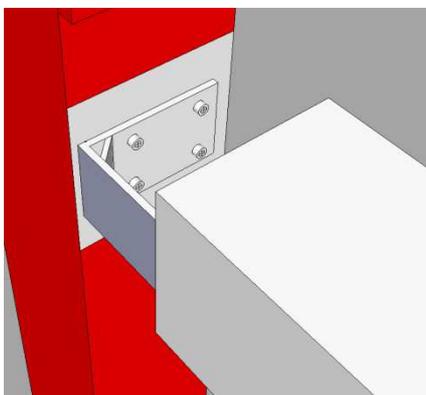
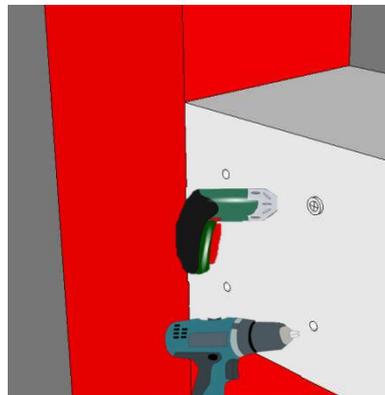
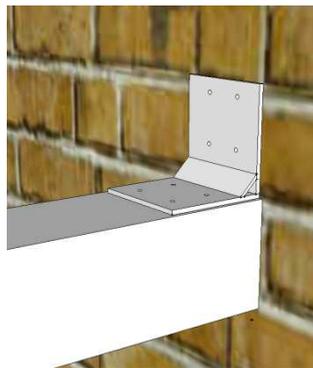


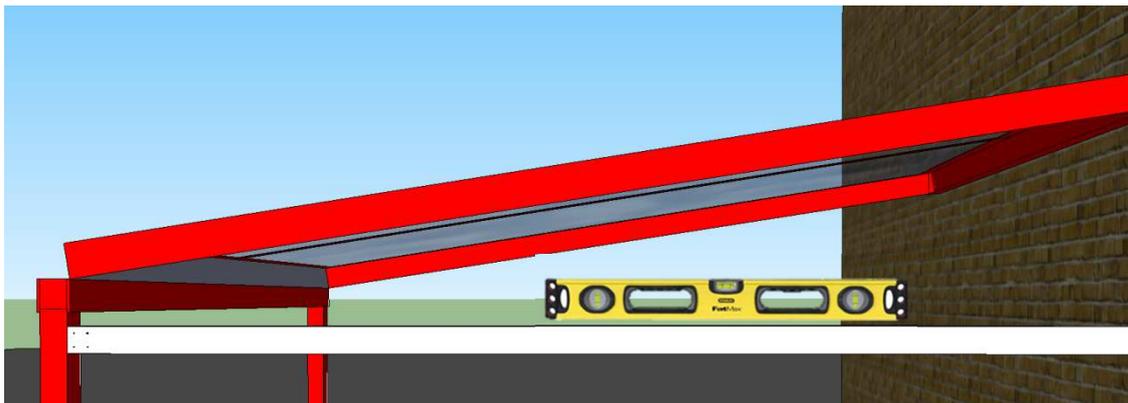
Diagram 5



7. Fix an 'L' bracket above the top horizontal post. This connects the post to the wall.
 1. Drill and screw.
 2. Use appropriate masonry plugs



8. Check that the horizontal post is level.



9. Repeat 3-7 for the bottom horizontal post.
 1. Make sure the bottom 'L' bracket is under the bottom horizontal post (Diagram 6)

PLEASE NOTE YOU WILL NEED TO UNDO THE BOTTOM HORIZONTAL POST SCREWS SO THE VERTICAL BARS CAN BE FITTED.

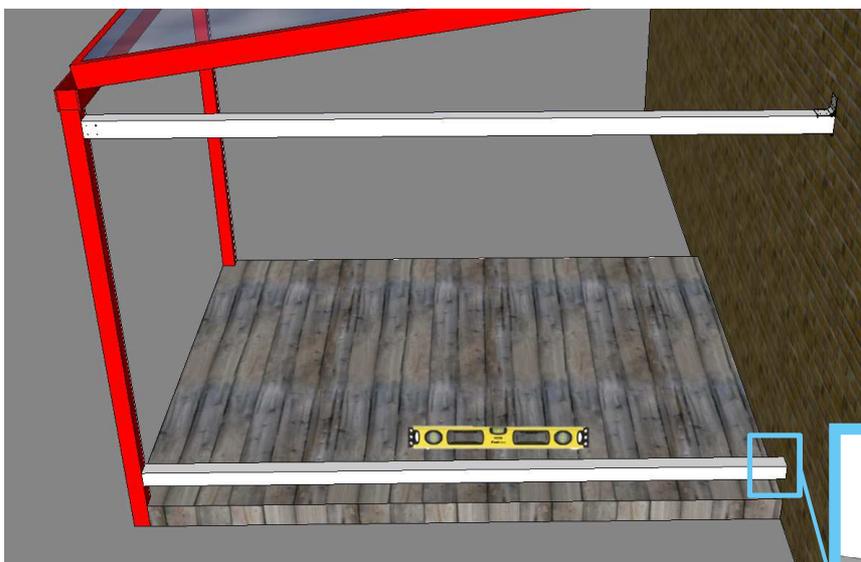
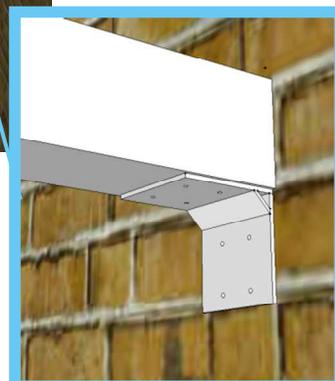
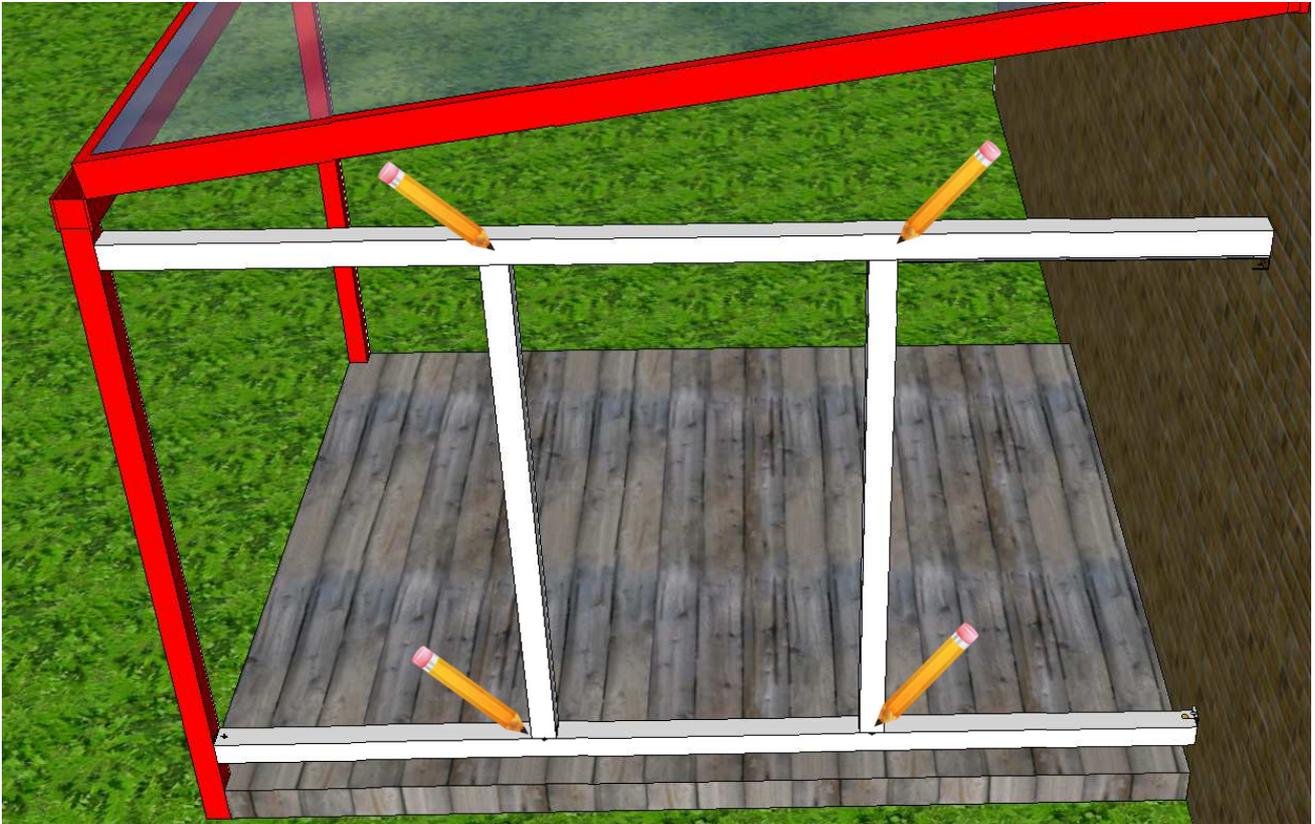


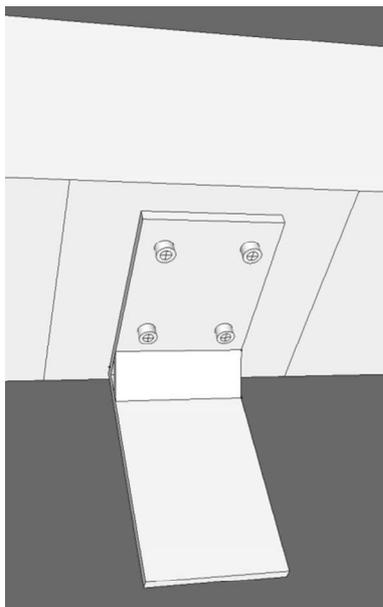
Diagram 6



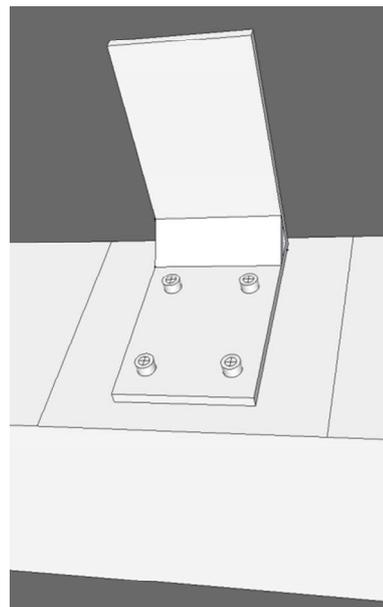
10. Measure the vertical distance between the two horizontal post.
 1. Show the post up to the opening and mark it if you find that easier than a tape.
11. Cut the vertical posts to length.
 1. After cutting check the vertical post(s) fit.
12. Measure & mark the positions so the vertical posts are evenly spaced



13. Tie-Bar brackets need fixing to the top & bottom horizontal posts by drill & screwing.
 1. Images below are from the perspective stood under the canopy looking out.
 2. The lines either side of the brackets illustrate the post position.

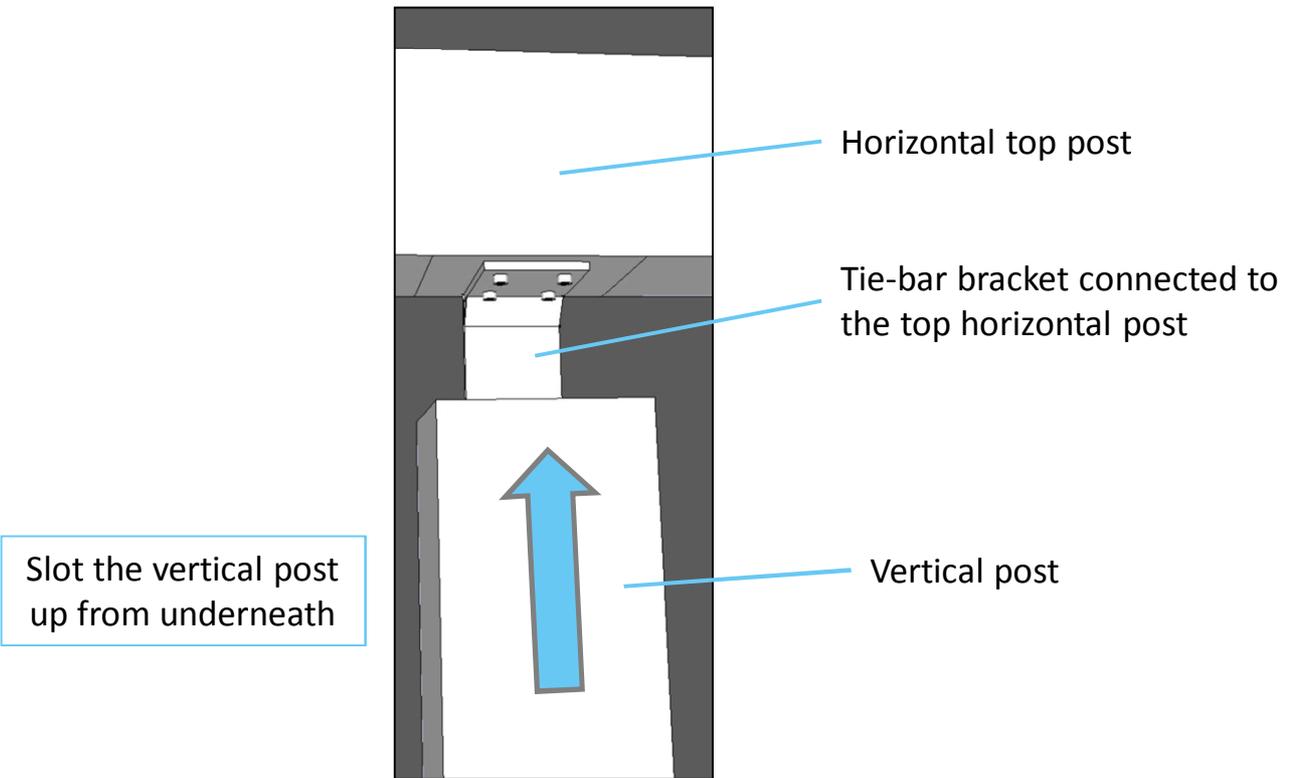


Top

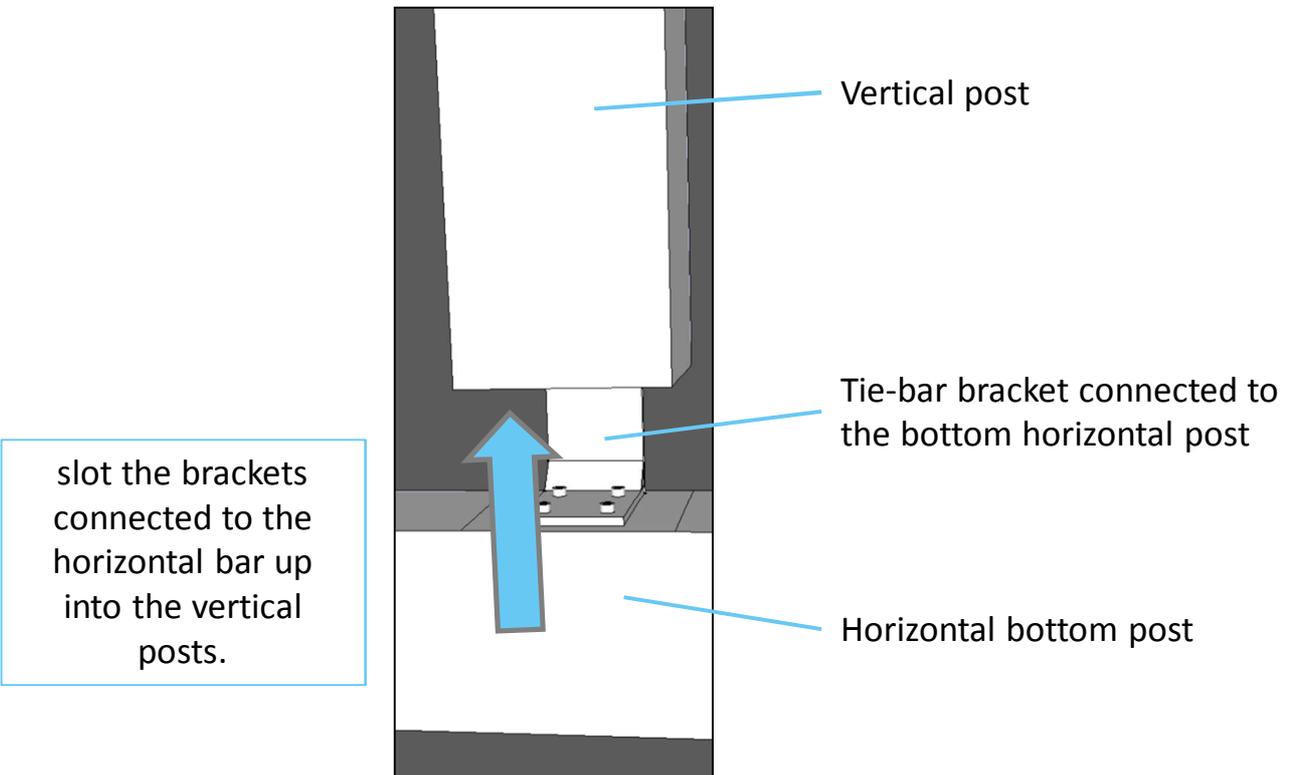


Bottom

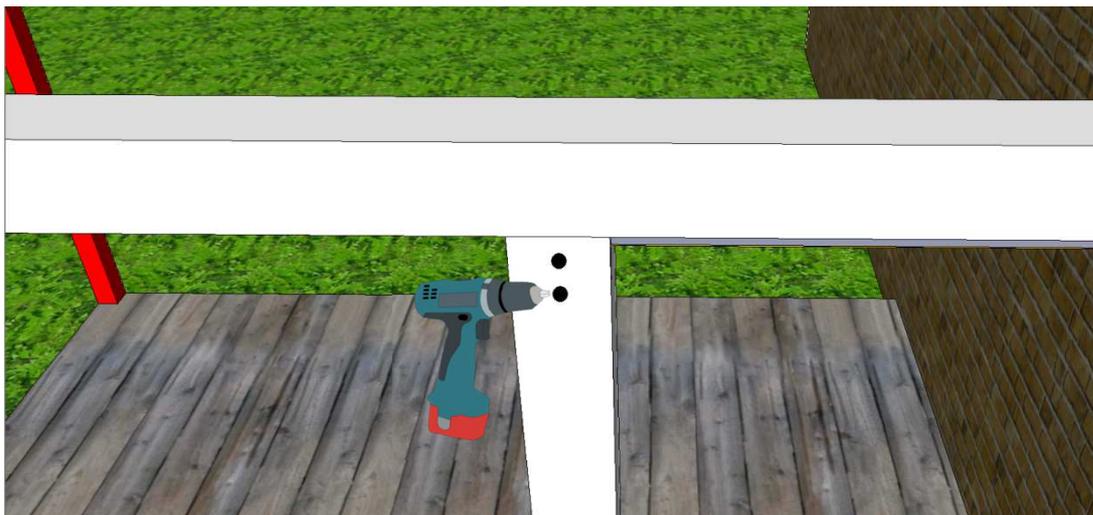
13. To fix the vertical posts into place you will need to remove the screws holding the horizontal post to the wall & the screws fixing the horizontal post to the existing structure.
14. Now you can lower the bottom horizontal post and slot the vertical post over the bracket that you fitted to the horizontal top bar
 1. Images below are from the perspective stood under the canopy looking out.



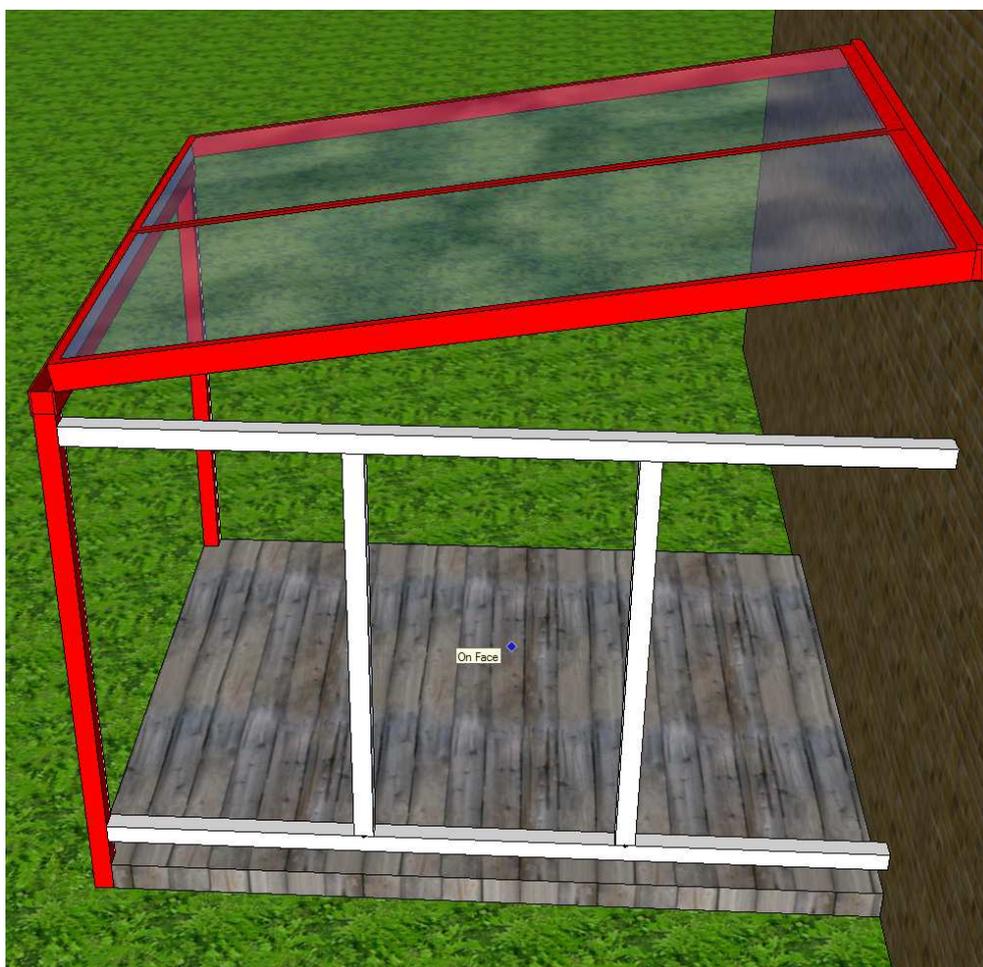
15. Whilst holding the vertical post(s) in position you can slot the brackets connected to the horizontal bar up into the vertical posts.



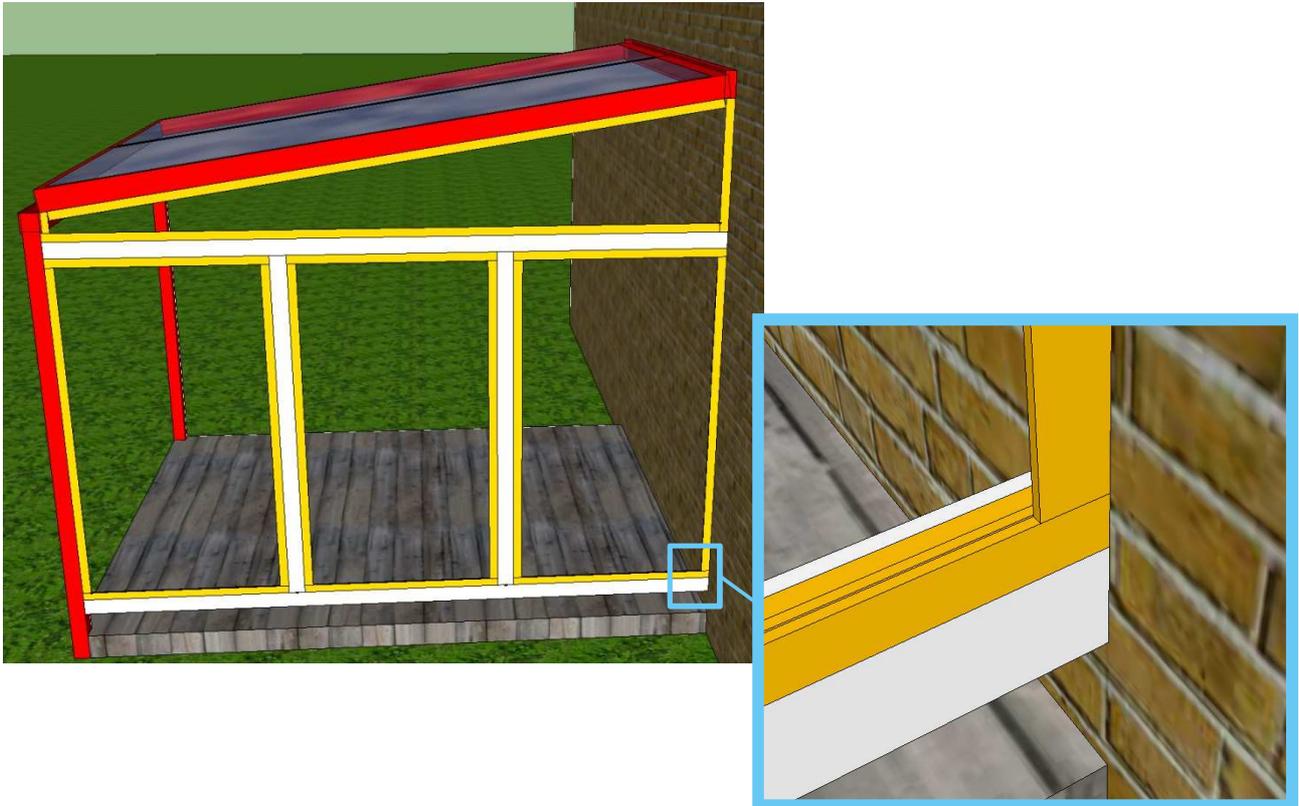
16. Drill and screw the vertical post to the bracket that is now inside the post with 2 x screws.
 1. Repeat for all vertical posts at the top & bottom.



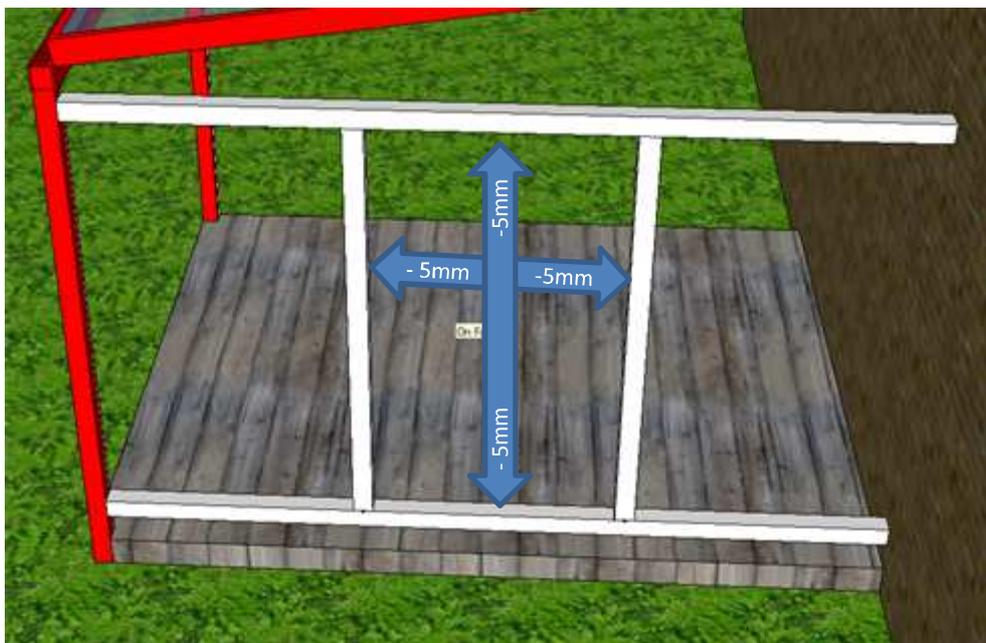
17. You will now have a complete end frame:



18. Measure and cut the “F” section lengths to fit around the inside of all openings of the end frame (Shown in yellow):



19. Before the “F” section can be fitted you need to measure the openings of the end frame to give you the required panel sizes.



20. Before you cut the panels please deduct 5mm from each edge measurement to allow for expansion.

21. If you have a top triangle enclosure please repeat point 20 for the triangle panel.
22. The open ends of the cut panels (If 16mm polycarbonate) need to be taped to stop insect entry.
 1. The top of the panel requires foil tape.
 2. The bottom of the panels requires fabric tape.
 3. The sides do not need any tape.
 4. If taping the top triangle use fabric tape on the wall side & foil tape along the diagonal cut.
23. Connect the "F" sections around the cut panel and position into the Frame opening.

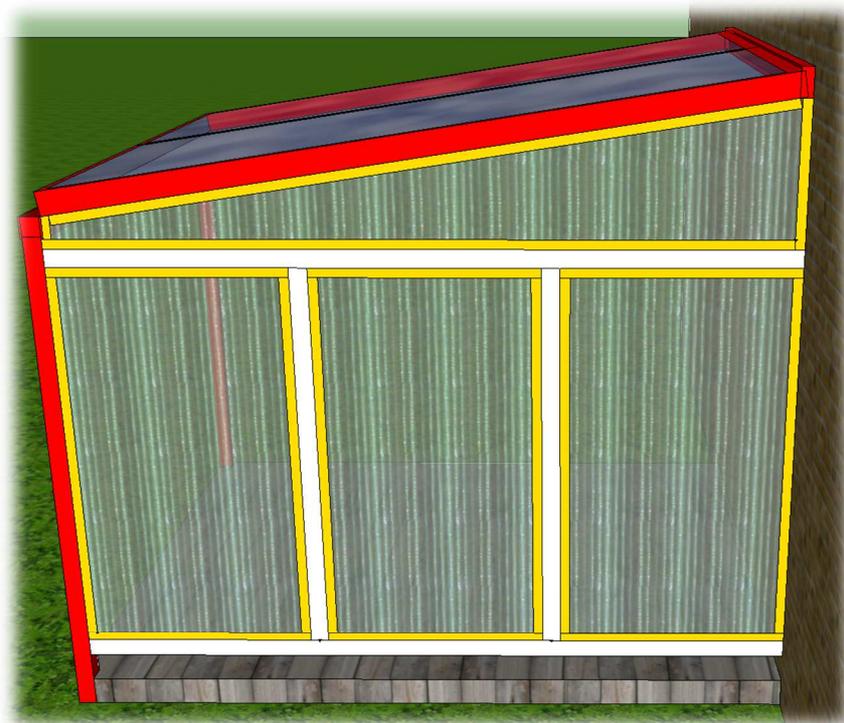


24. Drill and screw the "F" section to the frame & wall.
 1. Screws should be 50mm in from each end of "F" section and no more than 500mm centres apart.



25. Repeat step 24 for all panels and openings.

26. You should now have a completed enclosure:



We welcome feedback and would love to see the results of your enclosure so feel free to share photos with us at info@lumaccanopies.co.uk .