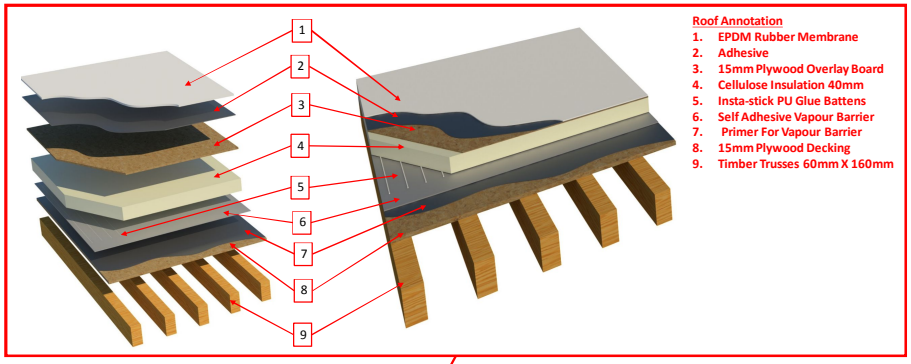
The scheme of my design was based around creating a sustainable timber framed structure that has very little impact on the surrounding environment. The location of the building is in a remote area in Manchester known as dove stone near a lake, this means that the details will be designed to suit the surrounding environment.

This poster will cover the main areas of a building which are:

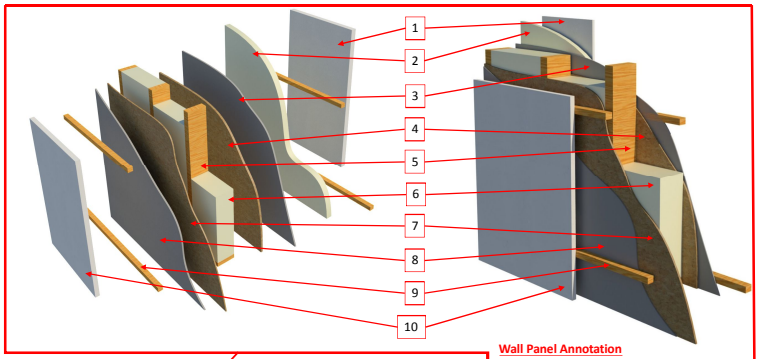
- Foundation (pier foundation)
- Ground floor (suspended ground floor)
- Walls (panel walls)
- Curtain walling
- Roof (warm roof)
- Major connection points

This poster will also show a holistic corner section of the structure to represent how the structure will look when assembled. Also in the centre it will show an exploded view of the building skeleton.



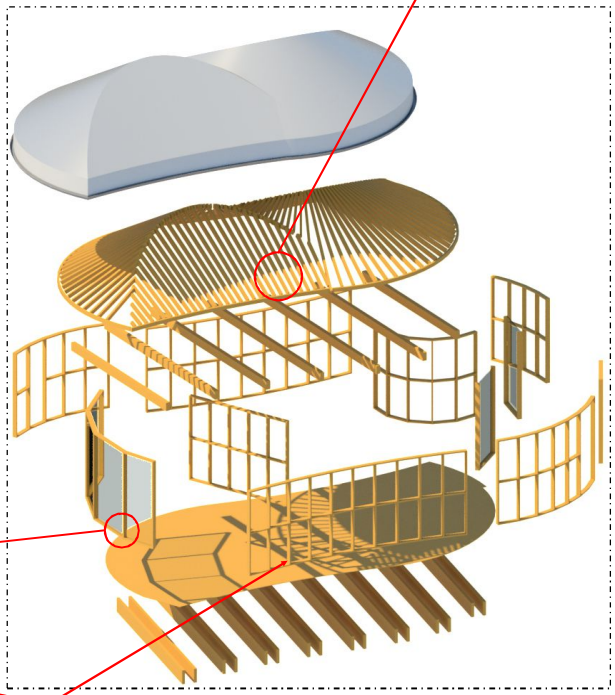
Roof Annotation

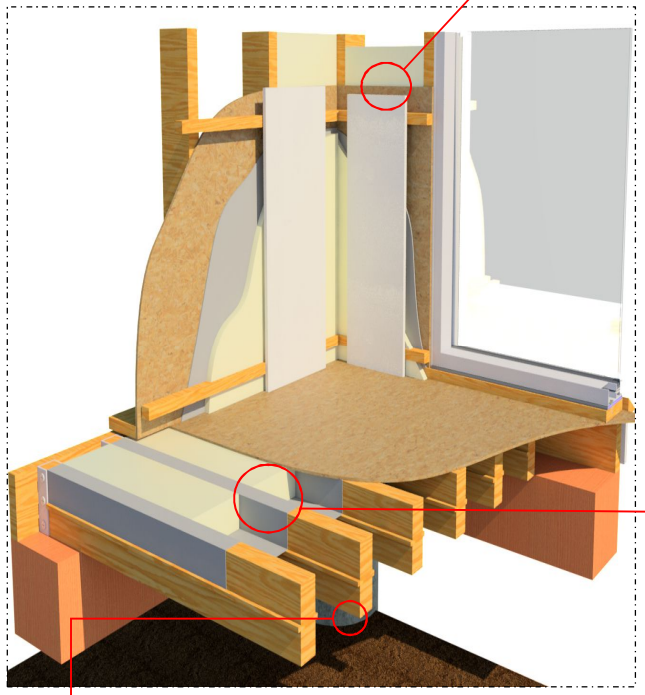
1. EPDM Rubber Membrane
2. Adhesive
3. 15mm Plywood Overlay Board
4. Cellulose Insulation 40mm
5. Insta-stick PU Glue Battens
6. Self Adhesive Vapour Barrier
7. Primer For Vapour Barrier
8. 15mm Plywood Decking
9. Timber Trusses 60mm X 160mm

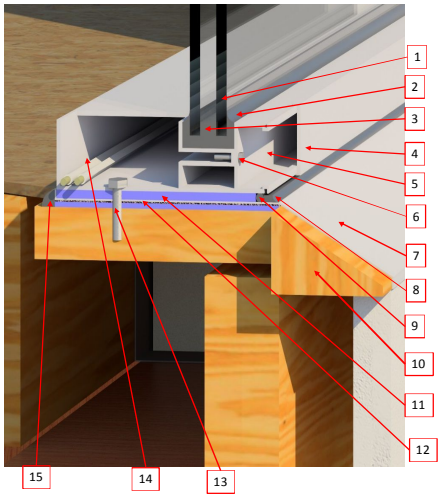


Wall Panel Annotation

1. Plasterboard With Skim Finish (interior)
2. 60mm Thermal Insulation
3. Vapour Control Layer
4. 12mm Plywood Board
5. 60 X 160mm Timber Battens
6. 160mm Cellulose Insulation
7. 12mm Plywood Board
8. Breathable Membrane
9. 60mm X 60mm Battens (Same On Both Sides)
10. 15mm Smooth Textured Render Finish







Curtain Walling Annotations

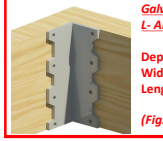
1. Silicone Doubled Glazing Curtain Wall
2. Rubber Seals For Airtightness And Water Tightness
3. Rubber Separator
4. Aluminium Cap
5. Pressure Plate
6. Bolt To Tighten Pressure Plate
7. Flashing Sill Pan
8. Caulk Seal For Airtightness And Water Tightness
9. Backing Rod For Caulk Application
10. Wooden Sill To Provide A Mould For Flashing Sill Pan
11. Plastic Shim To Prevent Wood Splitting
12. Flashing Tape
13. Main Connection Bolt
14. Cavity For wiring Connecting To Plug Sockets
15. Interior Caulk For Airtightness And Water Tightness

Joist Hanger 50 X 250mm (Fig.3)

Reinforcing Angle Bracket

Thickness- 2.50mm
Width- 65mm
Length- 90mm

(Fig.1)



Galvanized Reinforcing L- Angle

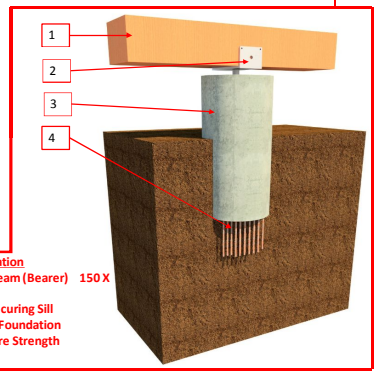
Depth- 34mm
Width- 58mm
Length- 180mm

(Fig.2)

Suspended Floor Annotation

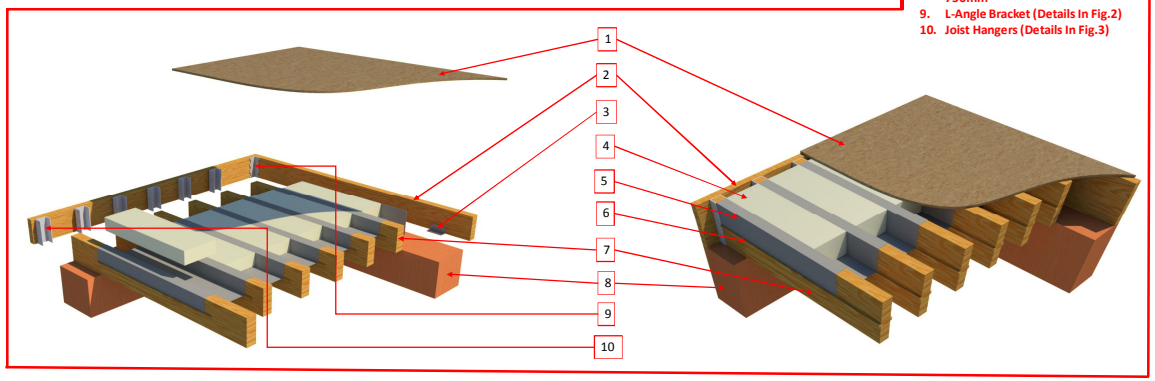
1. Floor Deck 25mm Plywood
2. Treated Band/Rim Joist 50mm X 250mm
3. Angled Bracket (Details Showed In Fig. 1)
4. 200mm Rigid Insulation
5. Continuous Smart Membrane for increased airtightness
6. 20 X 20mm Battens To Support Insulation
7. Treated Floor Joist 50 X 250mm
8. Treated Sill Beam (Bearer) 150 X 750mm
9. L-Angle Bracket (Details In Fig.2)
10. Joist Hangers (Details In Fig.3)

Securing Walls To Rim Joist Close Up (Fig. 4)



Foundation Annotation

1. Treated Sill Beam (Bearer) 150 X 750mm
2. Connection Securing Sill
3. Concrete Pier Foundation
4. Rebar To Ensure Strength



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