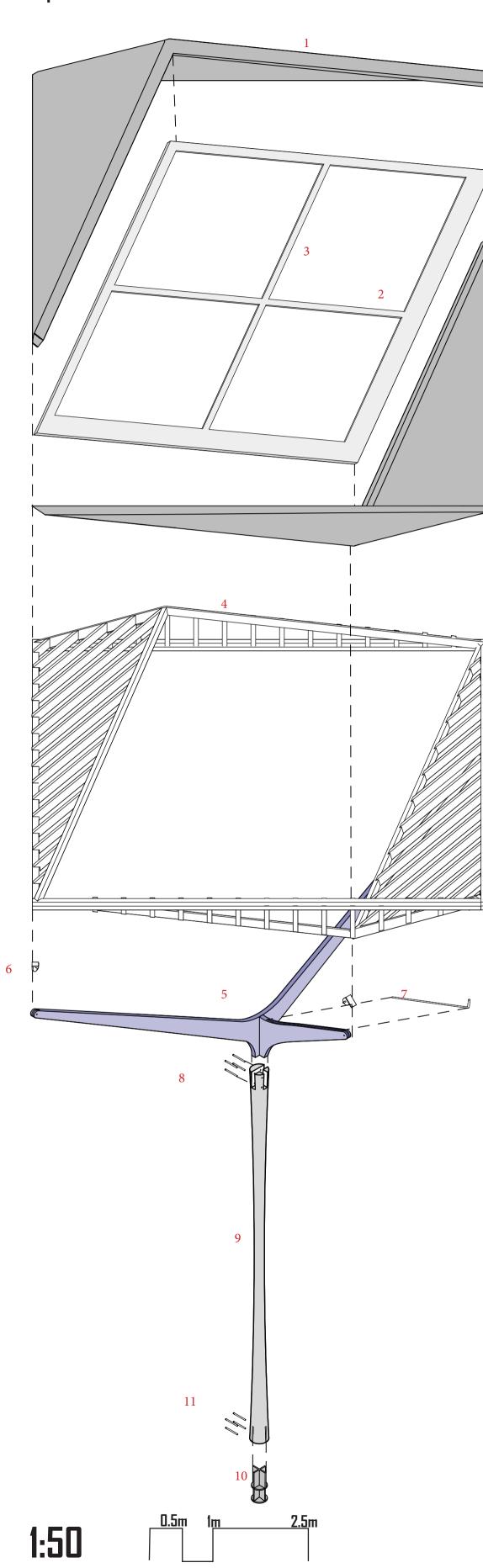
Tectonic Details:

Exploded Structural Isometric:



1. 120mm kingspan insulated roof panel with aluminium. sheet lapped over.

Roof - Existing detail 1:10

1. Existing Brickwork.

225mm above gutter).

5. Aluminium gutter.

timber rafter.

lated panell.

and breather membrane.

ber plate (600mm centres).

steel box section via M12 Bolts.

(bolts resin anchored into wall).

2. Lead flashing notched into mortar joint (

3. Breather membrane lapped under lead flashing4. Steel Box section fixed to wall via x4 M12 bolts

6. Aluminium roof sheet lapped over lead gutter

7. 120mm kingspan insulated roof panel fixed to

8. 125x50mm exposed timber rafter fixed to tim-

9. 125x100mm timber plate (doubled up) fixed to

10. 50mm rigid insulated fixed to rafter and ex-

isting wall via self tapping screw and aluminium

11. 3mm aluminium extrusion to square off insu-

2. Aluminium window frame.

3. Double glazed thermal glass pane.

4. Timber roof structue. 5. Steel Y frame.

6. Steel arm connections.

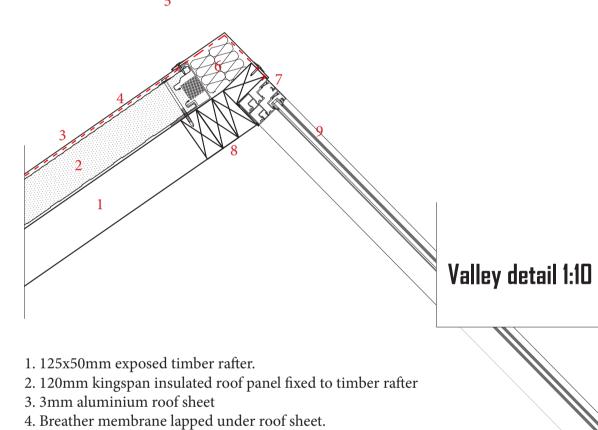
7. 50mm concealed gutter pipe.

8. M24 Bolts. 9. Timber column.

10. Steel shoe.

11. M24 Bolts

Roof Ridge detail 1:10



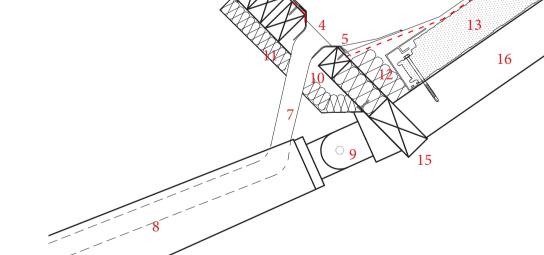
5. Aluminium ridge cap lapped over roof sheet.

6. 50mm rockwool insulation void.

7. Aluminium window frame fixed to 100x50mm timber. 8. 125x50mm timber plate (trippled up) supporting window

9. Double glazed thermal glass pane.





1. Double glazed thermal glass pane.

2. Aluminium window frame fixed to 100x50mm timber.

3. 100x50mm timber (doubled up) framed to support window frame.

4. Pvcu water outlet. 5. Aluminium flashing lapped over water outlet.

6. Breather Membrane lapped under flashing and outlet.

7. 50mm water downpipe (running into notch in steel y frame through timber

column into water tank). 8. Steel y Frame arm.

9. Steel arm connection (male and female) fixed wia M20 bolt.

10. 75x50mm timber frame supporting water outlet.

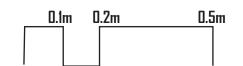
11. 50mm rockwool insulation.

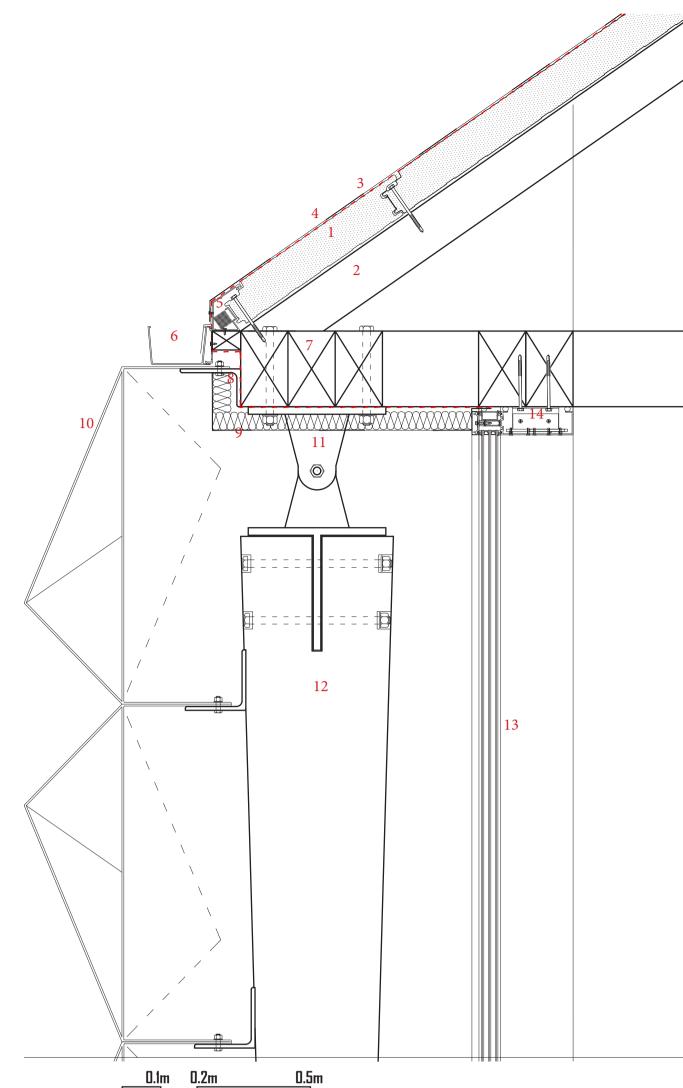
12. 4mm aluminium extrusion to square off roof panel. 13. 120mm kingspan insulate panel fixed to timber rafter.

14. Aluminium roof sheet lapped on-top of breather membrane.

15. 125x50mm timber valley plate.

16. 125x50mm exposed timber rafter.





Roof - Facade detail 1:10

1. 120mm kingspan insulated panel fixed to timber rafter. 2. 125x50mm exposed timber

3. Breather membrane lapped under roof panel. 4. 3mm aluminium roof sheet

lapped over membrane into aluminium gutter. 5. 3mm aluminium extrusion to

square off roof panel. 6. Gutter fixed to 75x50mm

timber (timber fixed to 200x100mm structural beam). 7. 200x100mm structural timber beam(tripled up) bolted together via M24 bolts).

8. 10mm steel angle bracket

fixed to beam. 9. Aluminium sheet and 50mm rigid enertherm insulation lapped over breather membrane

fixed to beam. 10. 3mm aluminium folded facade sheet fixed to angle brackt via M10 bolt.

11. Steel connection plate fixed to triple timber beams via x4 M24 bolts.

12. Timber column fixed to connection plate via x4 M24 bolts. 13. Triple glazed thermal glass

> 14. 270x70mm aluimium transom fixed to 200x100mm timber beam via steel t plate.

Facade floor detail 1:10

1. Triple glazed thermal glass 2. 270x570mm Aluminium floor

tansom fixed to concrete floor sealed with sealent with breather membrane lapped under. 3. 25mm rigid enertherm perime-

ter insulation. 4. 10mm tile floor finish.

5. 65mm liquid sreed 6. 20mm PEX underfloor heating

7. 100mm rigid enertherm insula-8. Breather membrane lapped un-

der and ontop of rigid insulation (under window transom). 9. Concrete slab 10. Concrete foundation

11. M24 bolt and cone system (anchoring steel shoe to founda-

12. Cones filled with non-shrink grout up to steel shoe. 13. Exposed steel shoe anchored to foudation via x4 M24 Bolt

14. Timber column fixed to steel shoe via x4 M24 bolts.