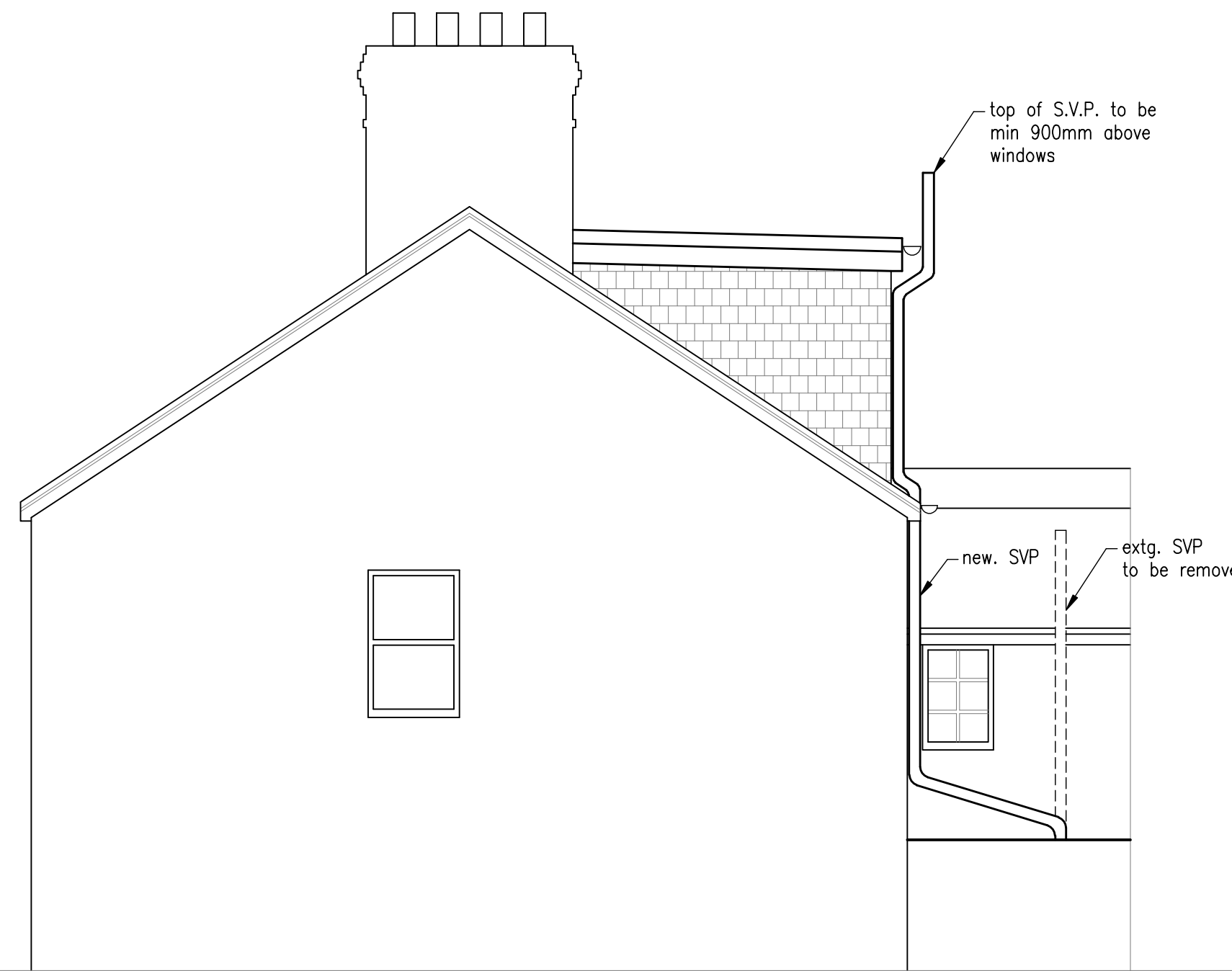
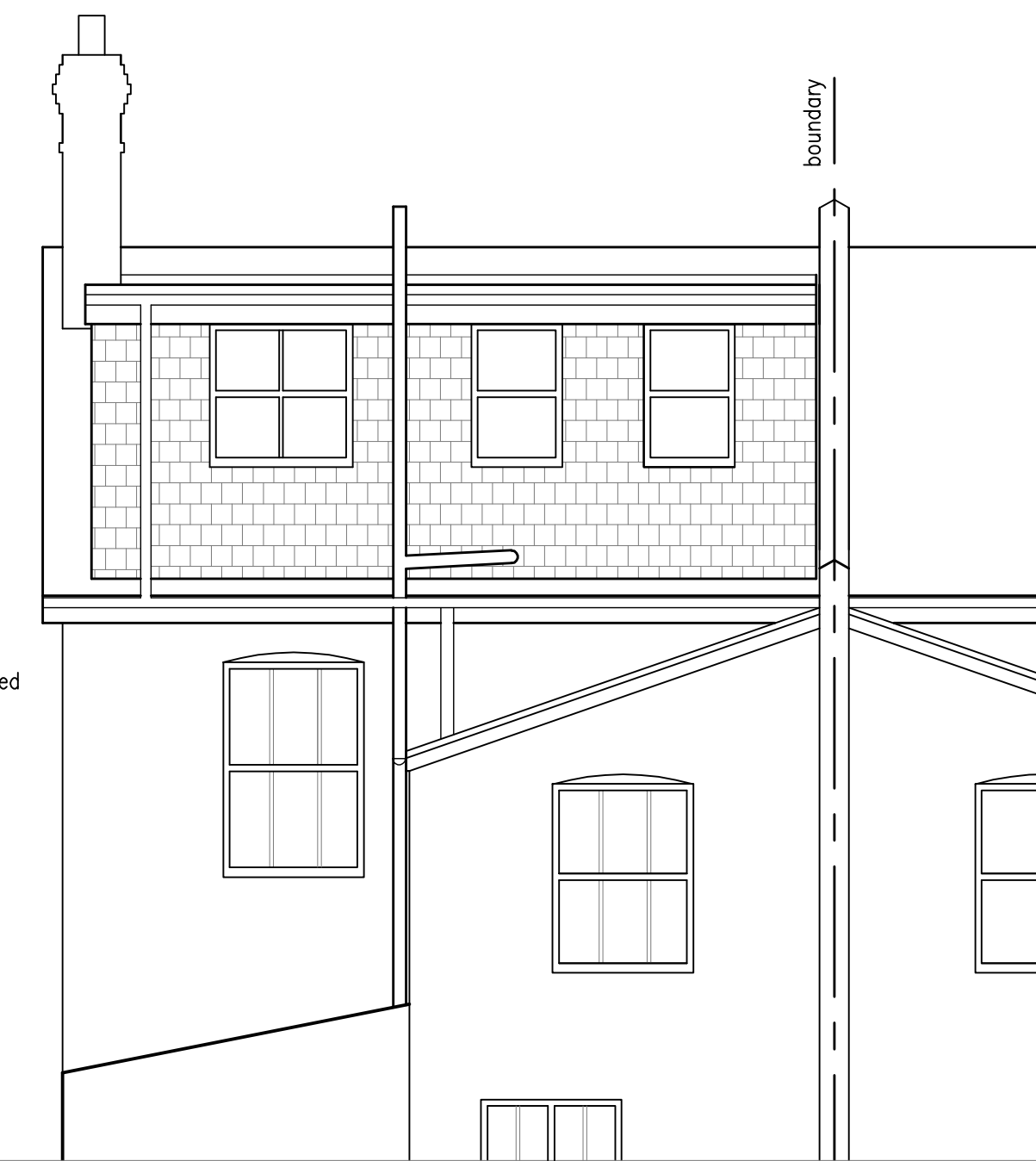


Proposed Front Elevation



Proposed Side Elevation



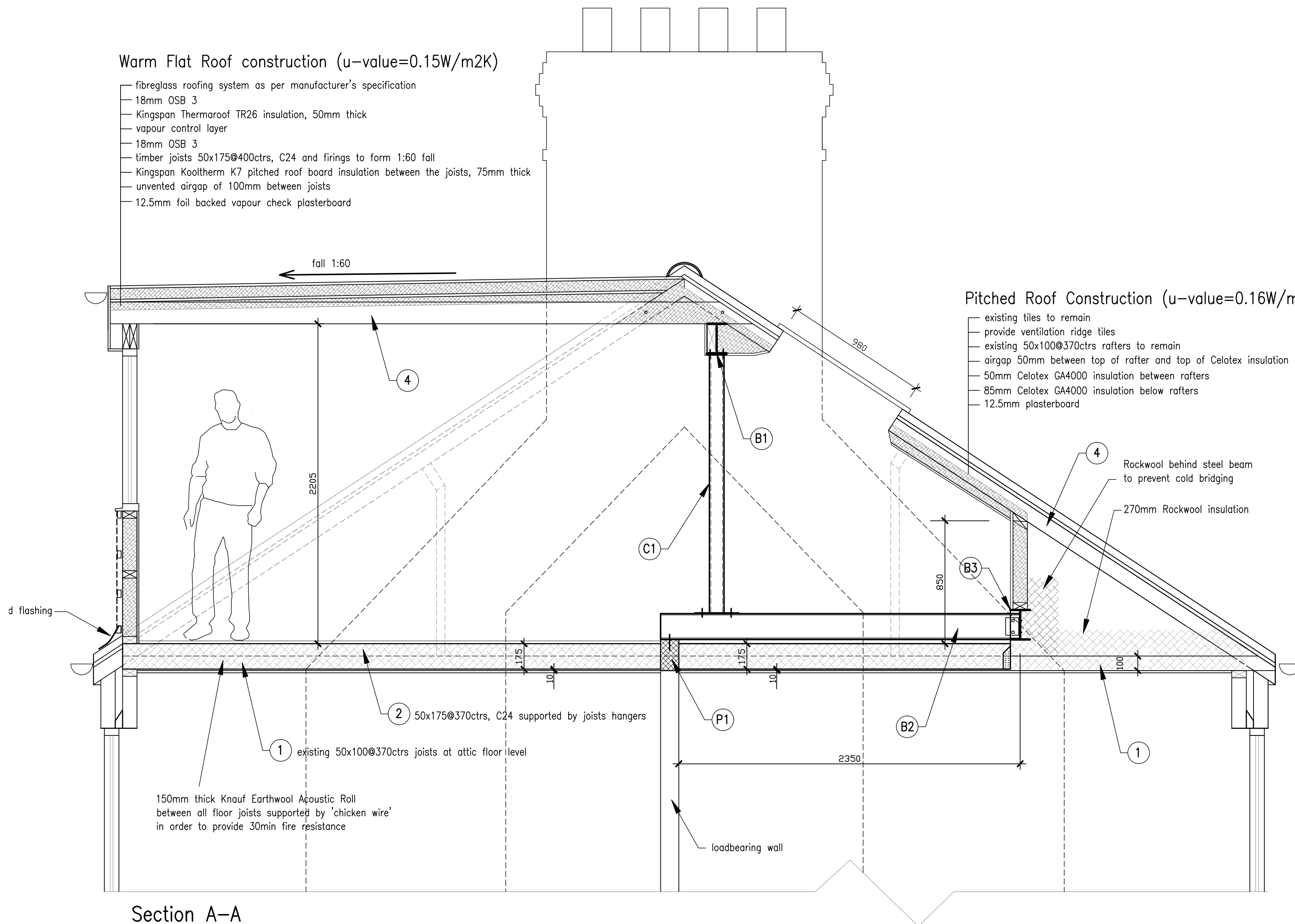
Proposed Rear Elevation

Warm Flat Roof construction (u-value=0.15W/m2K)

- fibreglass roofing system as per manufacturer's specification
- 18mm OSB 3
- Kingspan Thermaroof TR26 insulation, 50mm thick
- vapour control layer
- 18mm OSB 3
- timber joists 50x175@400ctrs, C24 and firings to form 1:60 fall
- Kingspan Kooltherm K7 pitched roof board insulation between the joists, 75mm thick
- unvented airgap of 100mm between joists
- 12.5mm foil backed vapour check plasterboard

Pitched Roof Construction (u-value=0.16W/m2K)

- existing tiles to remain
- provide ventilation ridge tiles
- existing 50x100@370ctrs rafters to remain
- airgap 50mm between top of rafter and top of Celotex insulation
- 50mm Celotex GA4000 insulation between rafters
- 85mm Celotex GA4000 insulation below rafters
- 12.5mm plasterboard



Section A-A

- 1 existing Attic floor joists 50x100@370ctrs
- 2 existing 50x100@370ctrs joists at attic floor level are to be strengthened with 50x175@370ctrs, C24 provide 2x(50x175) to trim stairwell and under stud walls
- 3 existing rafters 50x100@370 to remain
- 4 50x175@400ctrs, class C24 flat roof joists
- 7 fire door FD30
- 8 all doors at First Floor and Ground Floor are to be 1/2 hour fire rated doors
- 9 stairs to attic are to be 1/2 fire rated use 15mm fire-board for the stairwell walls and underside of the stair structure always maintain min 2000mm headroom between flights of stairs goings=220mm, risers=220mm

Timber framed wall (U-value=0.21W/m2K)

- tile hung
- horizontal battens on vertical battens
- breather membrane
- moisture resistant fireboard such as Masterboard, Supalux or Enviroboard
- stud wall 50x100@600ctrs
- 100mm Celotex insulation between studwork
- vapour control layer
- Celotex PL4025 (25mm insulation+12.5plasterboard)

- all welds 6mm fillet welds unless noted otherwise
- all bolts M16, grade 8.8 u.o.n.
- provide minimum 2 bolts M16 per connection
- all steel plates 10mm mild steel

provide 1/2hour fire resistance to all steelwork by using 15mm fireboard or intumescent paint

NOTE:
All new timber joists for attic floor and flat roof are to be Class C24.

Beam	Size
B1	203x133UB25
B2	178x102UB19
B3	203x133UB30 or 254x102UB28
B4	203x102UB23

Padstone	Size
P1	mass concrete 200x100x200deep *
P2	mass concrete 250x100x125deep
P3	mass concrete 250x100x125deep or 300x100x10thk steel spreader plate

* top of padstone to be approx. at the same level as the bottom of beam B3

Post	Size
C1	100x100x8 SHS
C2	150x90PFC bolted to masonry wall using M16 resin anchors at 450ctrs

Columns C1 and C2 to be bolted to steel beams at top and bottom of using 2M16 bolts per connection.

All connection plates are to be 10mm thick.

Rev.	Description	Date
B	Approved revision issued to Client	09.07.14
B	Revisions marked up in red	01.07.14
A	Issued for Building Control	17.05.14
-	Issued for comments	01.05.14

<p>Carmichael Building Design Ltd. Rosemary Cottage Pound Lane Mannings Heath Horsham West Sussex RH13 6JL t: 01403 262794</p>		
Clients		
Project		
Drawing Title		
Proposed Elevations Section A-A		
Sheet size	A1	Date 04/2014
Scale	1:50	Drawn by J Carmichael
Drawing No.	11601	Rev. B