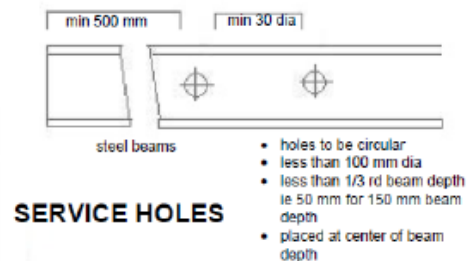
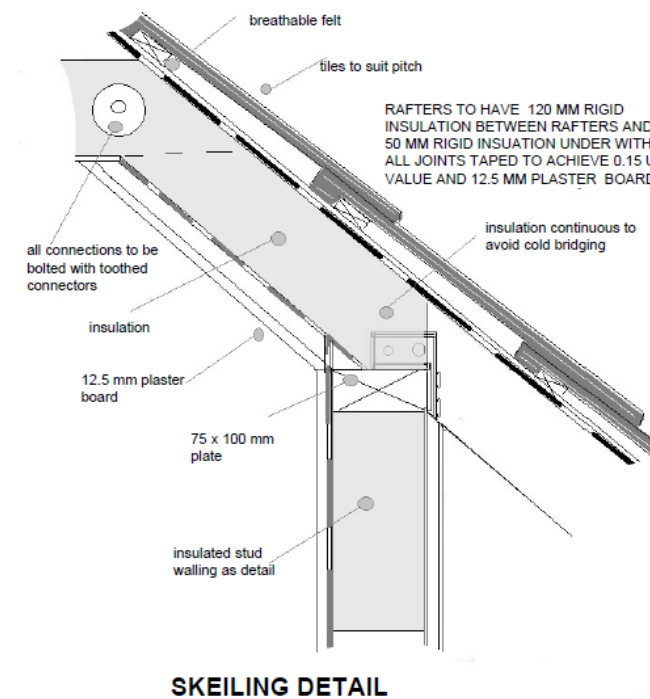
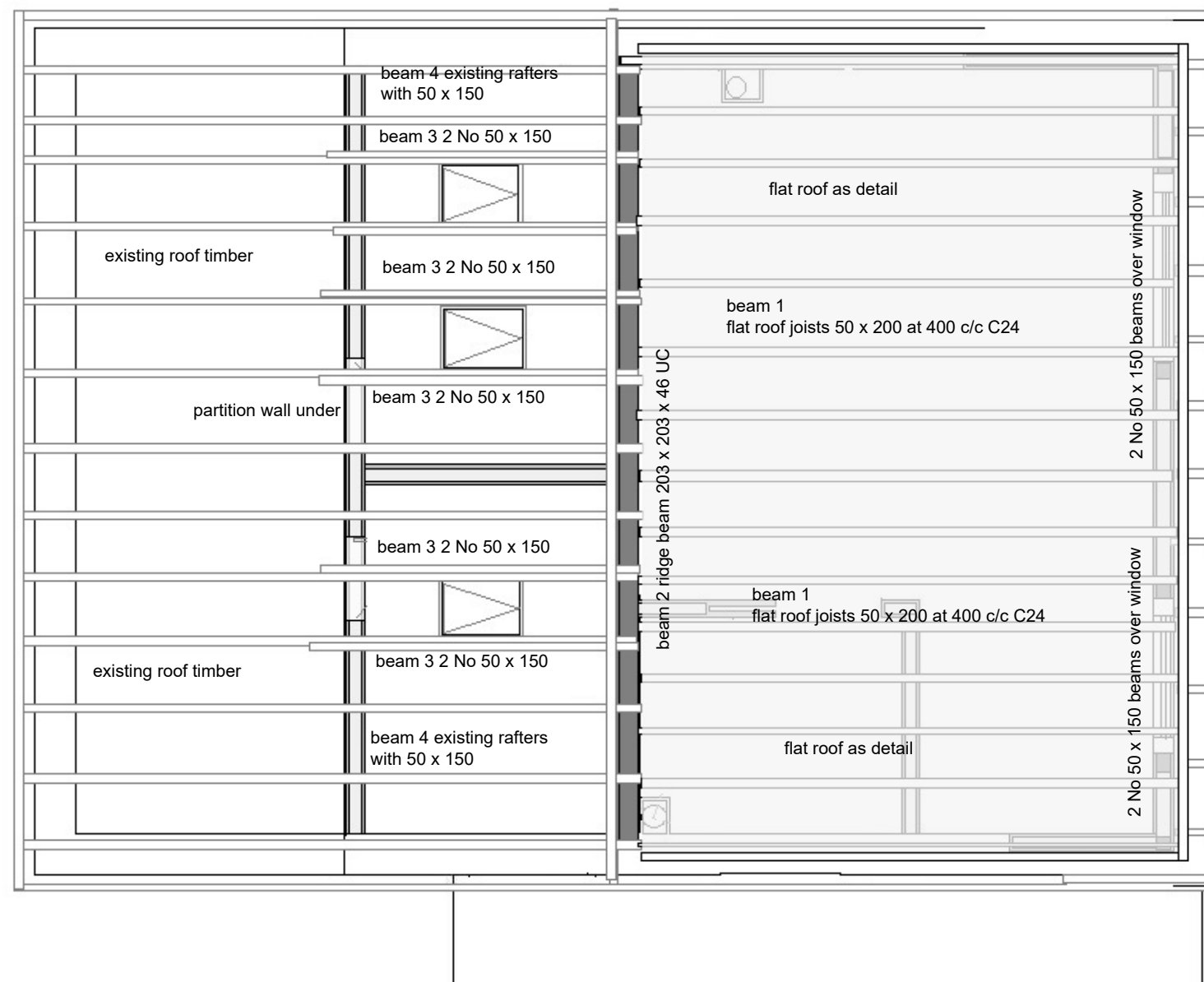


Should Any Conflict Between Details And Measurements On This Drawing Or On Other Drawings, Then Surrey Building Services Should Be Informed Prior To Construction On Site
 Until Full Approval Of Both Planning And Building Regulations (And Any Other Approval Applicable) Has Been Granted From The Relevant Authorities, It Should Be Understood That All Drawings Are Preliminary And Are Not For Construction. Should Work Commence Prior To Such Approvals Being Granted It Is Entirely At His Or Her Own Risk
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PROPOSED ROOF PLAN 1 : 50



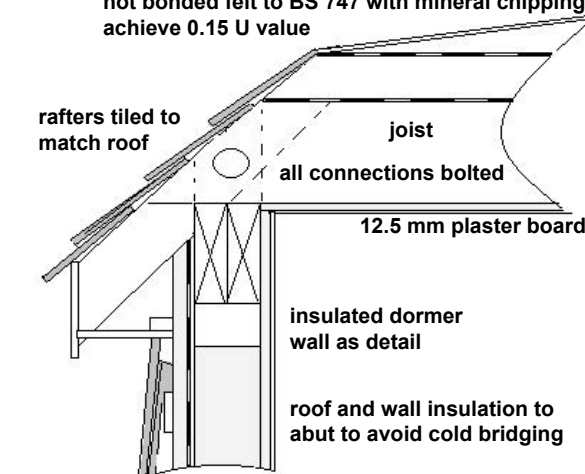
BEAM DETAILS

Job number: 11381

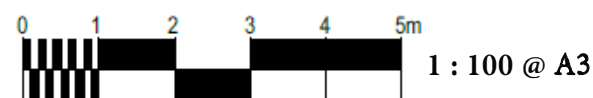
ITEMS:

- 1: Beam: DORMER ROOF JOISTS
Span: 4.2 m.
Reactions (unfactored/factored): R1: 1.89/1.89 kN; R2: 1.89/1.89 kN
Use 50 x 200 C24
- 2: Beam: RIDGE BEAM
Span: 6.3 m.
Reactions (unfactored/factored): R1: 22.48/22.48 kN; R2: 22.48/22.48 kN
Use 203 x 203 x 46 UC S355
Bearing R1: 20 mm m.s. bearing plate, size 450 x 100 mm
Bearing R2: As R1
- 3: Beam: RAFTERS TO EACH SIDE OF ROOF WINDOWS
Span: 2.5 m.
Reactions (unfactored/factored): R1: 2.74/2.74 kN; R2: 2.24/2.24 kN
Use 2no 50 x 150 C16
- 4: Beam: EXISTING RAFTER
Span: 2.5 m.
Reactions (unfactored/factored): R1: 1.59/1.59 kN; R2: 1.59/1.59 kN
Use 50 x 150 C16
RUN ALONG SIDE EXISTING TRUSS TIMBER
- 5: Beam: FLOOR JOISTS TO LOFT FLOOR
Span: 4.0 m.
Reactions (unfactored/factored): R1: 1.80/1.80 kN; R2: 1.80/1.80 kN
Use 50 x 200 C16
- 6: Beam: BEAM BELOW FRONT PARTITION WALL
Span: 6.3 m.
Reactions (unfactored/factored): R1: 25.55/25.55 kN; R2: 25.55/25.55 kN
Use 254 x 146 x 43 UB S355
Bearing R1: 25 mm m.s. bearing plate, size 550 x 100 mm
Bearing R2: As R1
- 7: Beam: CENTRAL BEAM TO FLOOR
Span: 6.3 m.
Reactions (unfactored/factored): R1: 23.04/23.04 kN; R2: 21.47/21.47 kN
Use 254 x 146 x 37 UB S355
Bearing R1: 20 mm m.s. bearing plate, size 500 x 100 mm
Bearing R2: 20 mm m.s. bearing plate, size 450 x 100 mm
- 8: Beam: CENTRAL BEAM TO FLOOR
Span: 6.3 m.
Reactions (unfactored/factored): R1: 23.04/23.04 kN; R2: 21.47/21.47 kN
Use 203 x 203 x 46 UC S355
Bearing R1: 20 mm m.s. bearing plate, size 500 x 100 mm
Bearing R2: 20 mm m.s. bearing plate, size 450 x 100 mm

flat roof warm roof with 150 mm rigid insulation over VCL & 18mm board above and below insulation with VCL below insulation with either GRP roofing system or three layer hot bonded felt to BS 747 with mineral chippings all to achieve 0.15 U value



FLAT ROOF DETAIL



SBS

Surrey Building Services

Architectural & Building Consultants

James Templeman : 07793433353 Email : surreybuildingservices@gmail.com

Client No. No. Revision

11381 10 BR

Client Name : Mrs Howe

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Proposal

PROPOSED LOFT CONVERSION WITH
REAR DORMER

Scale 1:100 1:50

Paper Size A3