

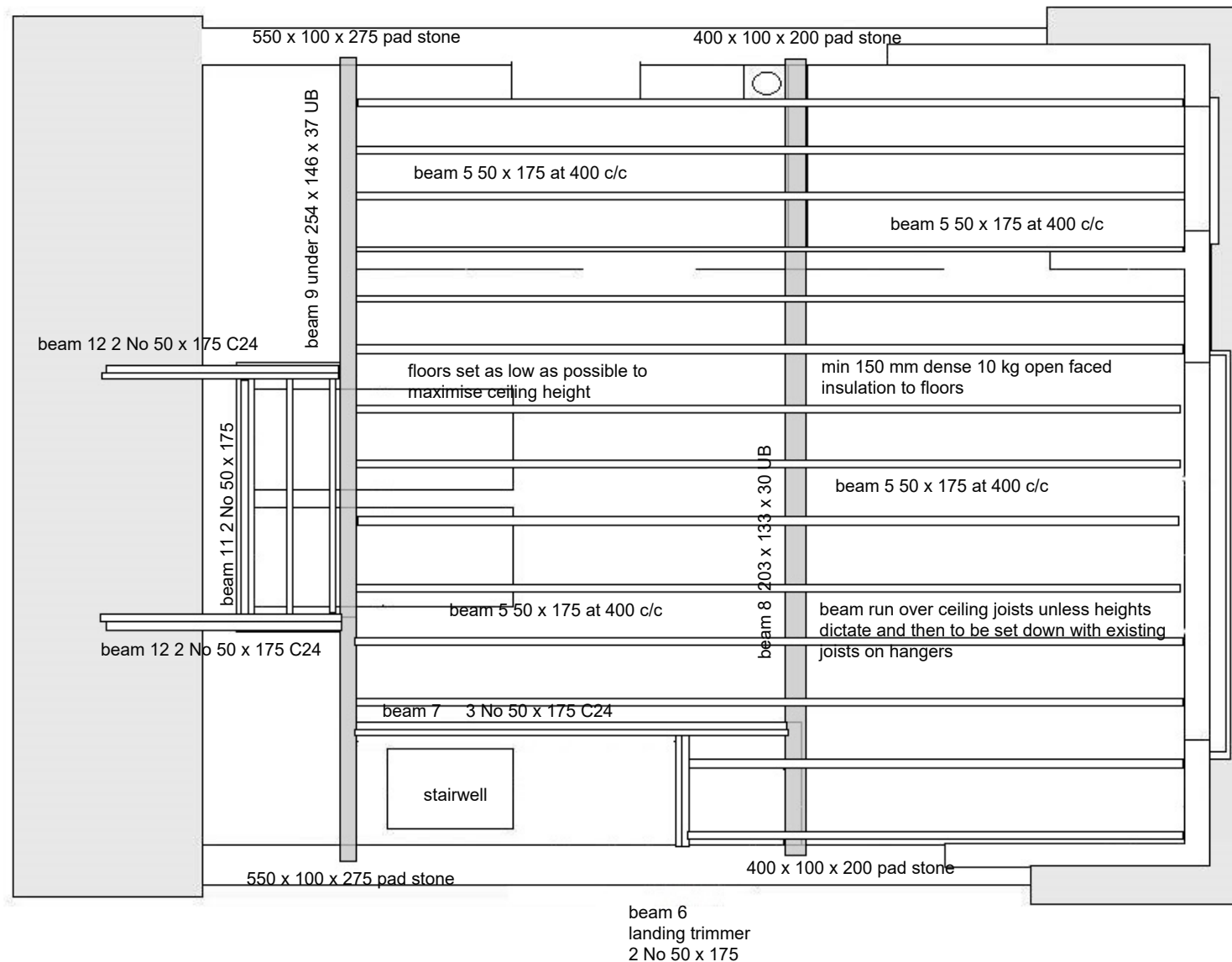
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BEAM DETAILS

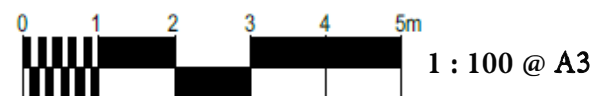
Job number: 11457

ITEMS:

- Beam: FLAT ROOF JOISTS TO DORMER
Span: 4.2 m.
Reactions (unfactored/factored): R1: 1.89/1.89 kN; R2: 1.89/1.89 kN
Use 63 x 175 C24
- Beam: RIDGE BEAM
Span: 5.4 m.
Reactions (unfactored/factored): R1: 18.74/18.74 kN; R2: 18.74/18.74 kN
Use 203 x 133 x 30 UB S355
Bearing R1: 400 x 100 x 200h mm padstone
Bearing R2: As R1
- Beam: RAFTERS
Span: 2.4 m.
Reactions (unfactored/factored): R1: 1.52/1.52 kN; R2: 1.52/1.52 kN
Use 2no 47 x 120 C16
EXISTING RAFTERS TO BE DOUBLED TO SUIT SPAN
- Beam: BEAM OVER REAR DOORS
Span: 3.0 m.
Reactions (unfactored/factored): R1: 7.20/7.20 kN; R2: 7.20/7.20 kN
Use 2no 50 x 225 C24
- Beam: FLOOR JOISTS TO LOFT
Span: 3.3 m.
Reactions (unfactored/factored): R1: 1.49/1.49 kN; R2: 1.49/1.49 kN
Use 50 x 175 C16
- Beam: LANDING TRIMMER
Span: 1.0 m.
Reactions (unfactored/factored): R1: 0.55/0.55 kN; R2: 0.55/0.55 kN
Use 50 x 175 C16
- Beam: TRIMMER TO STAIRS
Span: 3.3 m.
Reactions (unfactored/factored): R1: 3.71/3.71 kN; R2: 3.93/3.93 kN
Use 3no 50 x 170 C24
- Beam: BEAM TO FLOOR MID SECTION
Span: 5.4 m.
Reactions (unfactored/factored): R1: 17.88/17.88 kN; R2: 16.00/16.00 kN
BEAM RUN OVER CEILING JOISTS, BUT IF HEIGHTS DICTATE THEN TO BE SET DOWN AND CEILING JOISTS SUPPORTED ON HANGERS.
Use 203 x 133 x 30 UB S355
Bearing R1: 400 x 100 x 200h mm padstone
Bearing R2: 400 x 100 x 200h mm padstone
- Beam: BEAM BELOW PARTITION WALL
Span: 5.4 m.
Reactions (unfactored/factored): R1: 25.17/25.17 kN; R2: 25.17/25.17 kN
Use 254 x 146 x 37 UB S355
Bearing R1: 550 x 100 x 275h mm padstone
Bearing R2: As R1
- Beam: RAFTERS TO SIDES OF LONGER ROOF WINDOWS
Span: 3.5 m.
Reactions (unfactored/factored): R1: 1.55/1.55 kN; R2: 1.55/1.55 kN
Use 2no 50 x 150 C16
- Beam: trimmer to raised floor section
Span: 2.0 m.
Reactions (unfactored/factored): R1: 6.42/6.42 kN; R2: 6.42/6.42 kN
Use 2no 50 x 175 C24
- Beam: beams supporting raised section
Span: 2.2 m.
Reactions (unfactored/factored): R1: 2.38/2.38 kN; R2: 5.67/5.67 kN
Use 2no 50 x 170 C24



JOIST PLAN 1 : 50



SBS

Surrey Building Services

Architectural & Building Consultants

James Templeman : 07793433353 Email : surreybuildingservices@gmail.com

Client No.	No.	Revision
11457	11	BR

Client Name : William & Tara Nash- Wortha

Address

1 Cherry Tree Grove
Barkham
Berks
RG41 4UZ

Proposal

PROPOSED LOFT CONVERSION WITH
REAR DORMER

Scale 1:100 1:50

Paper Size A3