

beam 6 rafters 50 x 125 at 400 c/c

hip

existing rafters

rafters 50 x 125 at 400 c/c

ridge

lay board

hip

roof pitched and tiled to match existing

beam 1 rafters 50 x 150

existing hip

existing rafters

existing ridge

beam 1 rafters 50 x 150

existing hip

existing rafters

existing rafters

rafters beam 4 50 x 125

ridge

existing rafters

existing rafters

roof windows 550 x 1180 with rafters doubled to each side and fitted with flashing kit

ROOF PLAN 1 : 50

Measurements On This Drawing Or On Other Drawings, Then Surrey Building Regulation On Site

Building Regulations (And Any Other Approval Applicable) Has Been Granted

Understood That All Drawings Are Preliminary And Are Not For

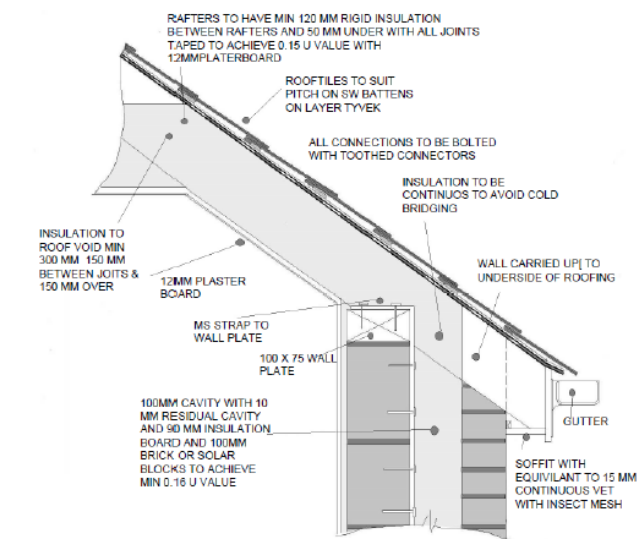
- Should Any Conflict Between Details And Measurements On This Drawing Or On Other Drawings, Then Surrey Building Services Shall Be Informed Prior To Construction On Site
- Until Full Approval Of Both Planning And Building Regulations (And Any Other Approval Applicable) Has Been Granted From The Relevant 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
- Copyright All Drawings Remain The Copyright Of Surrey Building Services And May Not Be Copied, Altered Or Reproduced In Anyway Without Written Authority.



1 : 100 @ A3



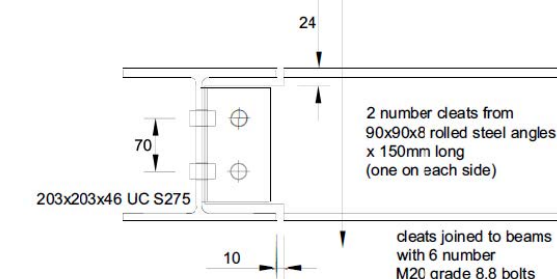
1 : 50 @ A3



SKEILING DETAIL

Connection Detail 203x203x46 UC

maximum factored load = 60 kN



Bearing Capacity of M20 bolt passing through 7.2mm thick S275 steel = 60.6 kN

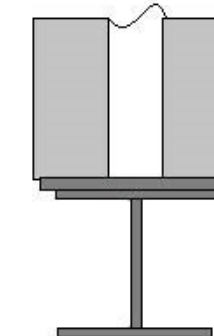
$2 \times 60.6 \text{ kN} = 121.2 \text{ kN} > 60 \text{ kN}$ therefore OK

Shearing Resistance of M20 grade 8.8 bolt = 188 kN

$$2 \times 188 \text{ kN} = 376 \text{ kN} > 60 \text{ kN} \text{ therefore OK}$$

Values from P363 Steel Building Design: Design Data, in accordance with Eurocodes and the UK National Annexes.

cavity wall supported by steel
10 mm plate welded to beam
with plate width cavity width
less 10 mm to both sides



TOP PLATE DETAIL

SBS

Surrey Building Services

Architectural & Building Consultants

Client No.	No.	Revision
11332	07	BR

Client Name :	Matt Dyment
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Address

Oak Manor, Heath Ride
Finchampstead
Berks
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Proposal

Proposed Two Storey Side and Single Storey Rear Extension & Front Porch

Scale 1:100 1:50

Paper Size	A3
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