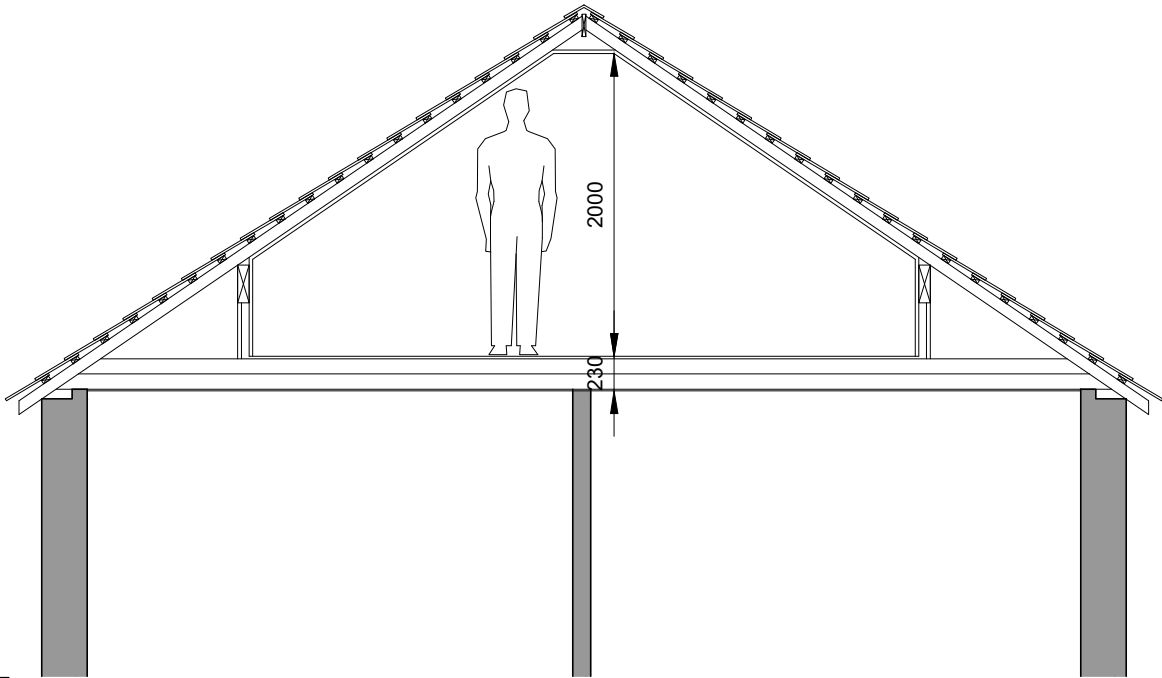


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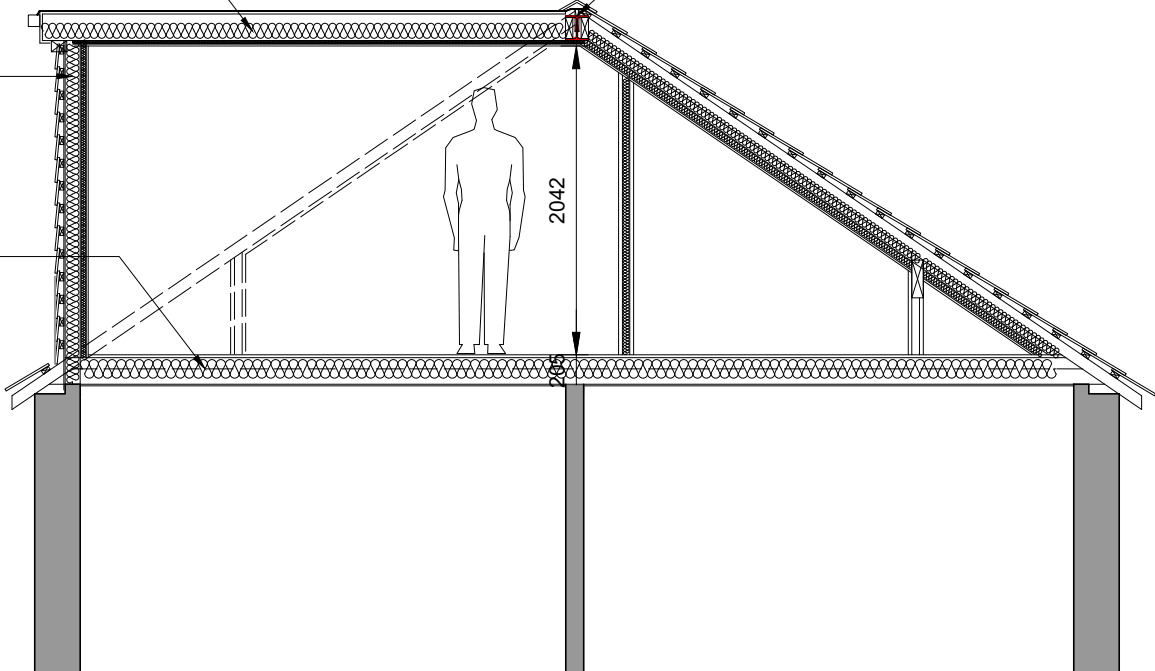
Existing Cross Section

Cold flat roof to be constructed in single ply rubber membrane waterproof top layer, 18mm plywood deck, on 170x75mm C24 roof joists at 400mm centres.
100mm Kingspan Kooltherm TR27 insulation between joists leaving a min. 50mm airgap above insulation. Roof joists underdrawn with 50mm Kingspan Kooltherm TR27 insulation between timber battens, then vapour control layer and 12.5mm plasterboard and skim.
To give a U-Value of 0.15w/m²

To cheeks and gable of dormer fix grey horizontal tiles on 50x25 battens, on Kingspan Nilvent breathable membrane, on 9mm OSB. 75mm Kingspan Kooltherm K7 insulation between 100x50mm timber dormer studs. Lined internally with 52.5mm Kingspan Kooltherm K118 insulated plasterboard with 3mm skim coat.
To give a U-Value of 0.18w/m²k.

If already thickened existing loft floor joists are not suitable then use 175x50mm C16 joists at 400mm centres. To run parallel with and bottom of joists level with existing loft joists. New 18mm ply boarding on top of joists. Line underside where required with 12.5mm plasterboard and skim.
Use 150mm Rockwool mineral insulation between joists.
Structural engineer to confirm floor joists sizes and steel support beams where required.

New steel ridge beam to be positioned as high as possible, in zone of existing timber ridge board, to give as much ceiling height as possible in the loft.



Proposed Cross Section

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JOB TITLE :
ADDRESS :
DRAWING TITLE :
SCALE :
DRAWN : xxx

Hip To Gable Dormer Loft Conversion
7 Kelvin Avenue, Middleton
Cross Sections
1:50 @ A3
DATE : 23.11.23

JOB NO./
DWG NO.

790-12