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Cold flat roof to be constructed in single ply rubber membrane waterproof top layer, 18mm plywood deck, on 50x50mm timber battens to give cross ventilation side to side, on 150x50mm C16 roof joists at 400mm centres.
150mm Recticel Eurothan GP insulation between joists. Roof joists underdrawn with 40mm Recticel Eurothane GP insulation between timber battens, then vapour control layer and 12.5mm plasterboard and skim.
U value = 0.15W/m²K.

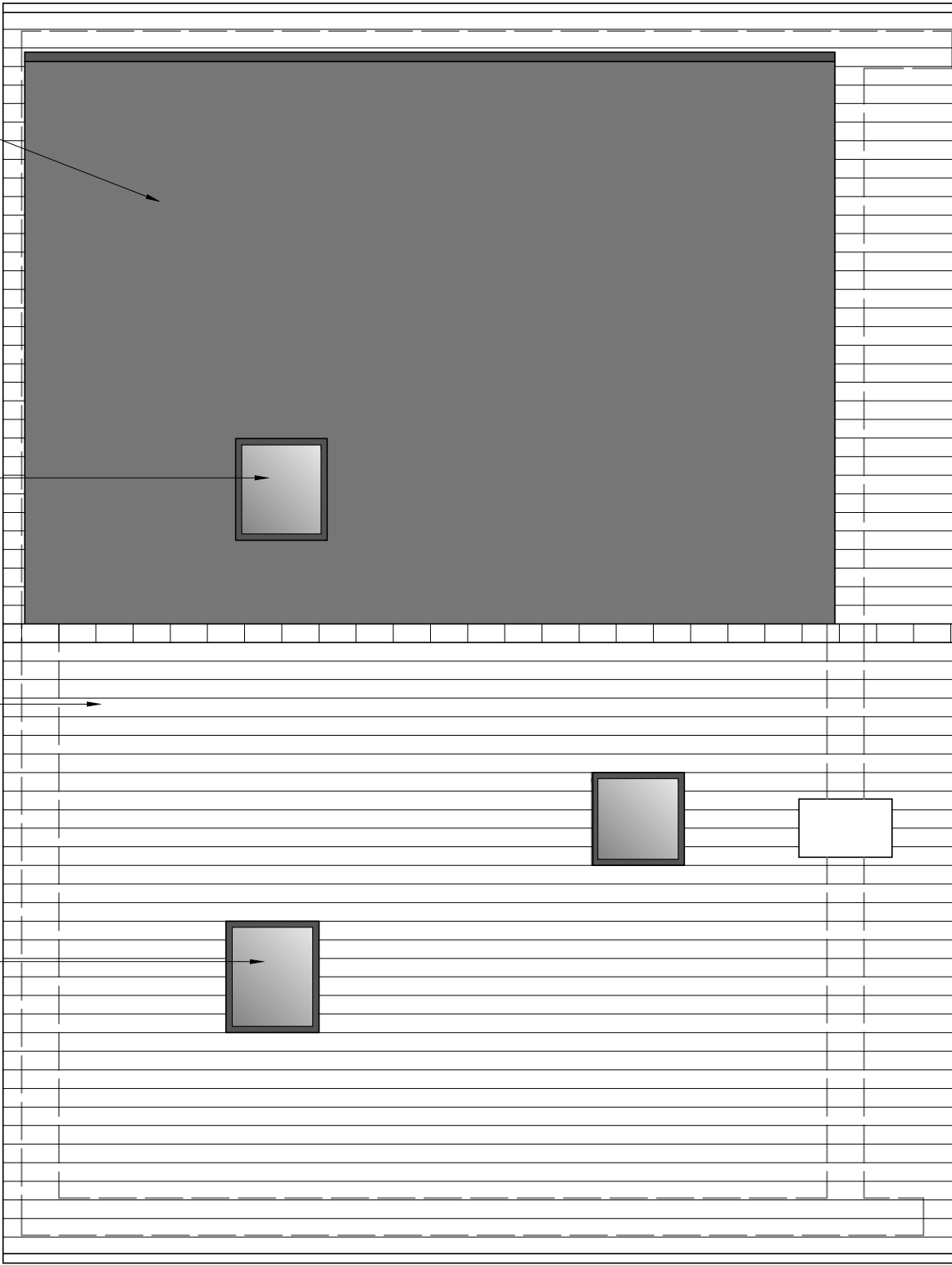
New flat roof window to have a minimum 150mm upstand and waterproof membrane to lap up face of upstand and under new frame of roof window, to manufactures instructions.

Existing roof to have an unvented roof build up, see below:

- Allow for timber roof battens
- Then a breather membrane on top of the rafters.
- Then 120mm Recticel Eurothane GP insulation between rafters.
- 50mm Recticel under the rafters.
- Then a vapour barrier.
- Then 12.5mm plasterboard and skim.

U value of roof = 0.15W/m²K.
To achieve the 100mm insulation between rafters then a 75x50mm timber batten to be fixed to underside of existing rafters, running with the rafters.

Velux rooflights to be fitted to manufactures instructions.



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JOB TITLE : Dormer Loft Conversion
ADDRESS : 25 Warwick Road, Alkrington
DRAWING TITLE : Proposed Roof Plan
SCALE : 1:50 @ A3
DRAWN : xxx DATE : 10.10.24