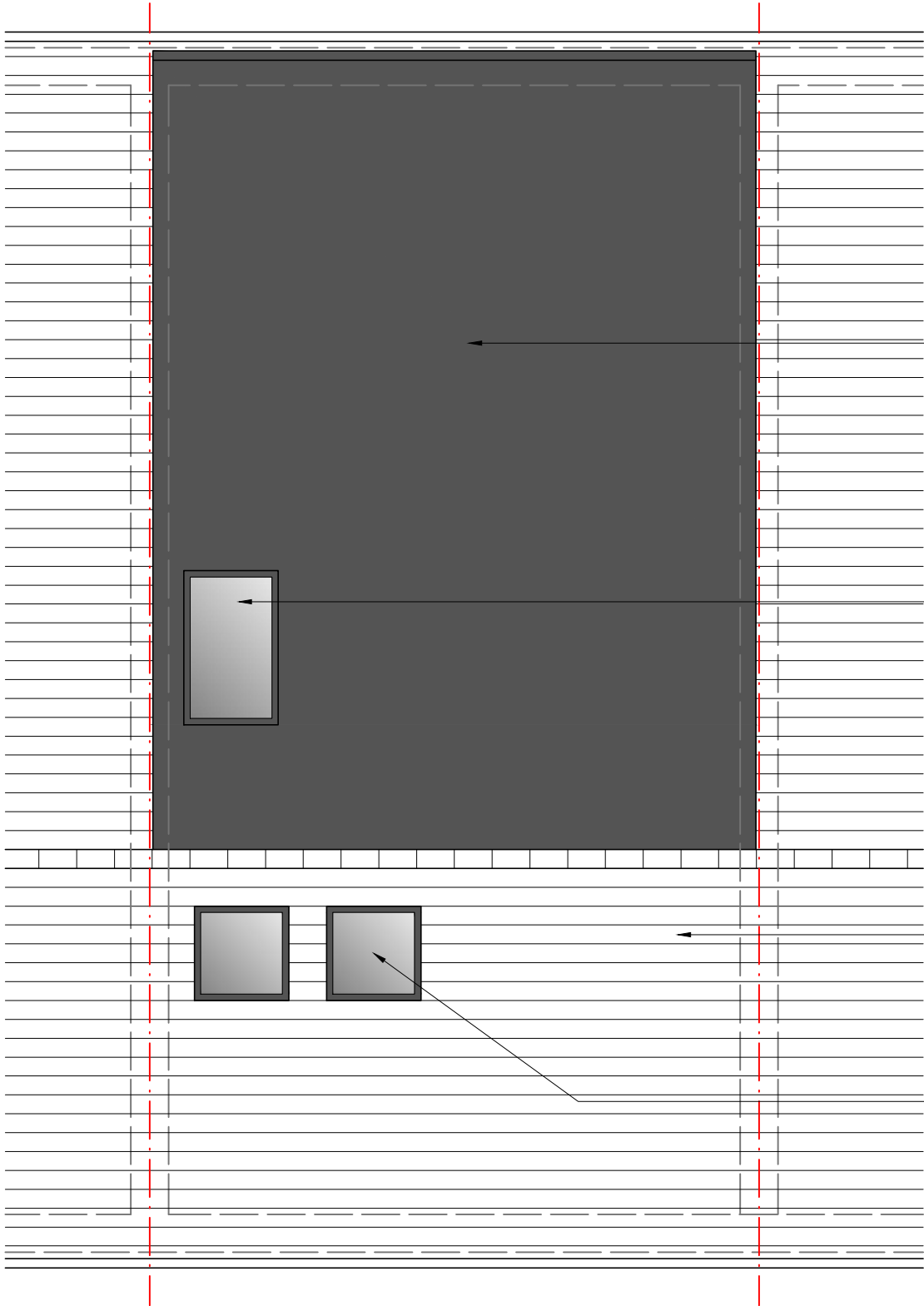


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Flat roof to be constructed in single layer ply membrane on 150mm 'Recticel Powerdeck F' insulation, on vapour control layer, on 18mm plywood deck on flat roof joists(designed by structural engineer). Underdraw joists with 12.5mm plasterboard and skim.
U value = 0.15W/m²K.

New flat roof glazed window to have a minimum 150mm upstand and fitted to manufacturers instructions. Roof finish to lap up to underside of cill of lantern. Trim opening to window using doubled up joists to each side of the opening.

NEw roof to comprise roof tiles to match existing, on 38x25mm timber battens, on breathable membrane, on rafters, designed by structural engineer. Insulation to allow for minimum 50mm air gap above 100mm Recticel Eurothane GP insulation between rafters and 60mm Recticel Eurothane insulation between timber battens, then a vapour barrier and 12.5mm plasterboard. Insulation to continue down to eaves level, to give a warm storage area.
U value of roof = 0.15W/m2K.

Velux roof windows to be fitted to manufacturers instructions. Trim opening using doubled up rafters.