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Flat roof to be constructed in single layer ply membrane on 150mm Kingspan TR27 insulation, on vapour control layer, on 18mm plywood deck on 170x75mm C24 flat roof joists. Underdraw joists with 12.5mm plasterboard and skim.
U value = 0.15W/m²K.
Structural engineer to confirm dormer roof timber sizes.

New velux rooflights to be fitted to manufacturers instructions, rafters to be doubled up around openings.

Add timber battens to run with underside of existing rafters, to increase depth of existing rafters, to allow for substantial thickness of insulation between rafters. Insulation to existing pitched roof to allow for minimum 50mm air gap above 125mm Kingspan Kooltherm K7 insulation between rafters and 62.5mm Kingspan Kooltherm K118 insulated plasterboard under rafters. Insulation to continue down to eaves level, to give a warm storage area.
U value of roof = 0.15W/m2K.

New rafters to be 175x50mm C16 timbers at 400mm centres.
Depth of rafters to be 175mm to enable 125mm insulation between rafters. Whilst it is acknowledged that 150mm depth rafters will achieve the correct spans for the roof.

