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Cold flat roof to be constructed in single ply rubber membrane waterproof top layer, 18mm plywood deck on 50x50mm cross battens to give cross flow ventilation, on roof joists designed by structural engineer. 100mm Celotex XR4000 insulation insulation between joists leaving a min. 50mm airgap above insulation. Roof joists underdrawn with 75mm GA4000 insulation between timber battens, then vapour control layer and 12.5mm plasterboard and skim.
U value of roof = 0.15W/m2K.

Roof tiles to match existing, on 38x25mm softwood timber battens on breathable felt to BS 747 on softwood timber rafters(designed by structural engineer) at on 100x75mm softwood wall plate fixed at maximum 600mm centres.
Galvanized steel lateral restraint straps to BS 5628, BS 5268 & BS 8103. To prevent roof spread.
Insulation to pitched roof to allow for minimum 50mm air gap above 120mm Celotex XR4000 insulation between rafters, with 50mm air gap. Underdraw rafters with 60mm Celotex GA4000 insulation then 12.5mm plasterboard, with 3mm skim coat plaster.
U value of roof = 0.15W/m2K.

