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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

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.

