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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.

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 and new 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. U value of roof = 0.15W/m²K.

