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Flat roof to be constructed in single ply rubber membrane waterproof top layer, 150mm Kingspan TR27, vapour control layer, 18mm plywood deck, on 170x75mm C24 roof joists at 400mm centres(to be confirmed by structural engineer). Underdrawn with 12.5mm plasterboard and skim.
To give a U-Value of 0.15w/m²k.

Insulation to 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 = 0.15W/m2K.
If existing rafter depth does not allow for 125mm between rafters then battens are to be fitted to run with the bottom of the rafters to increase available depth and the insulated plasterboard depth should be increased to give a similar U-Value as the specification above.
If client doesn't want to insulate the roof of the existing upper loft storage then the wall between habitable bedroom and storage to be as follows:
3mm skim coat to 62.5mm Kingspan Kooltherm K118 insulated plasterboard on 100x50mm timber studs with 100mm Kingspan Kooltherm K7 insulation between studs. Loft storage space to be ventilated.
U value = 0.15W/m2K

