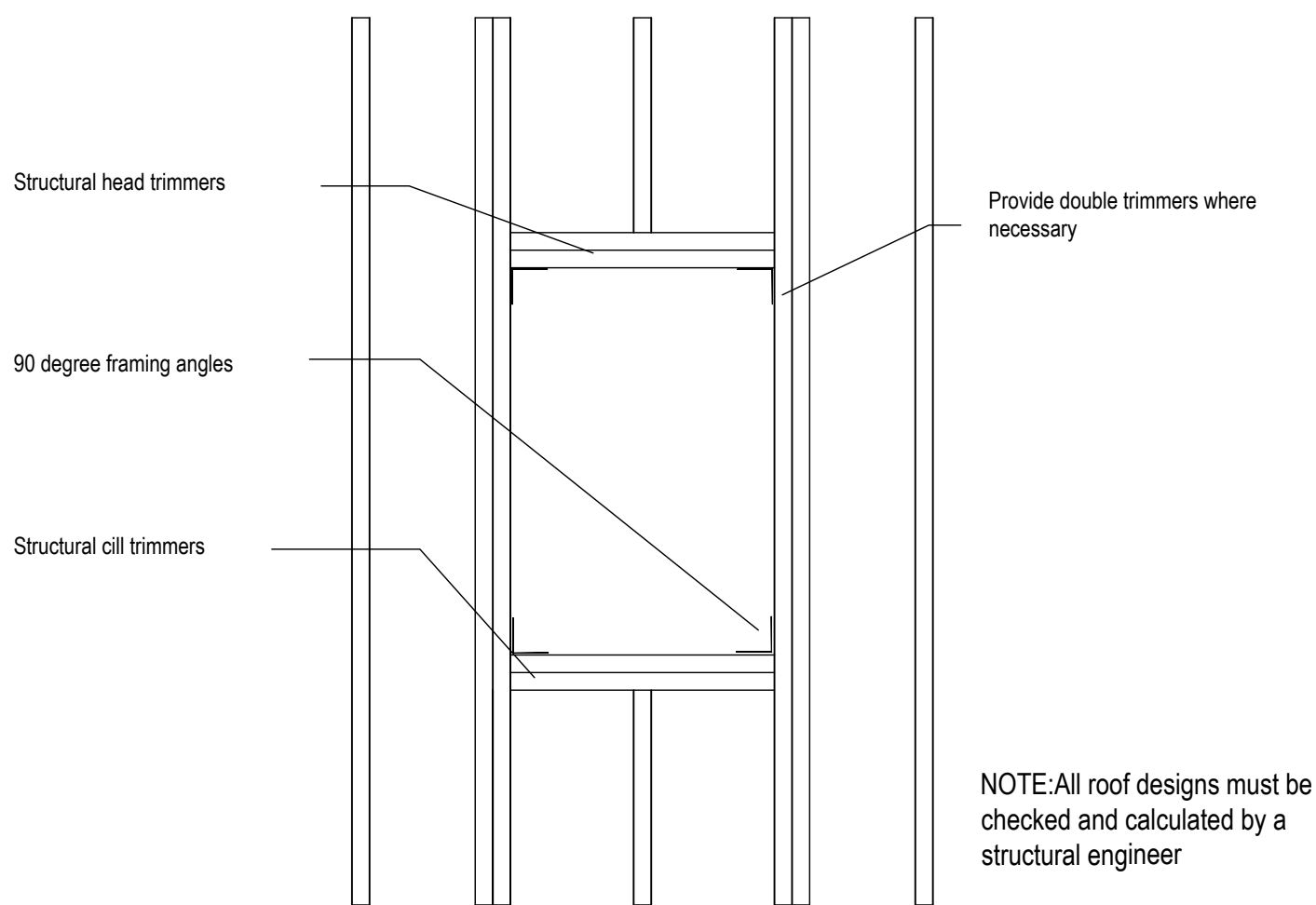


ROOFLIGHTS (STRUCTURE)

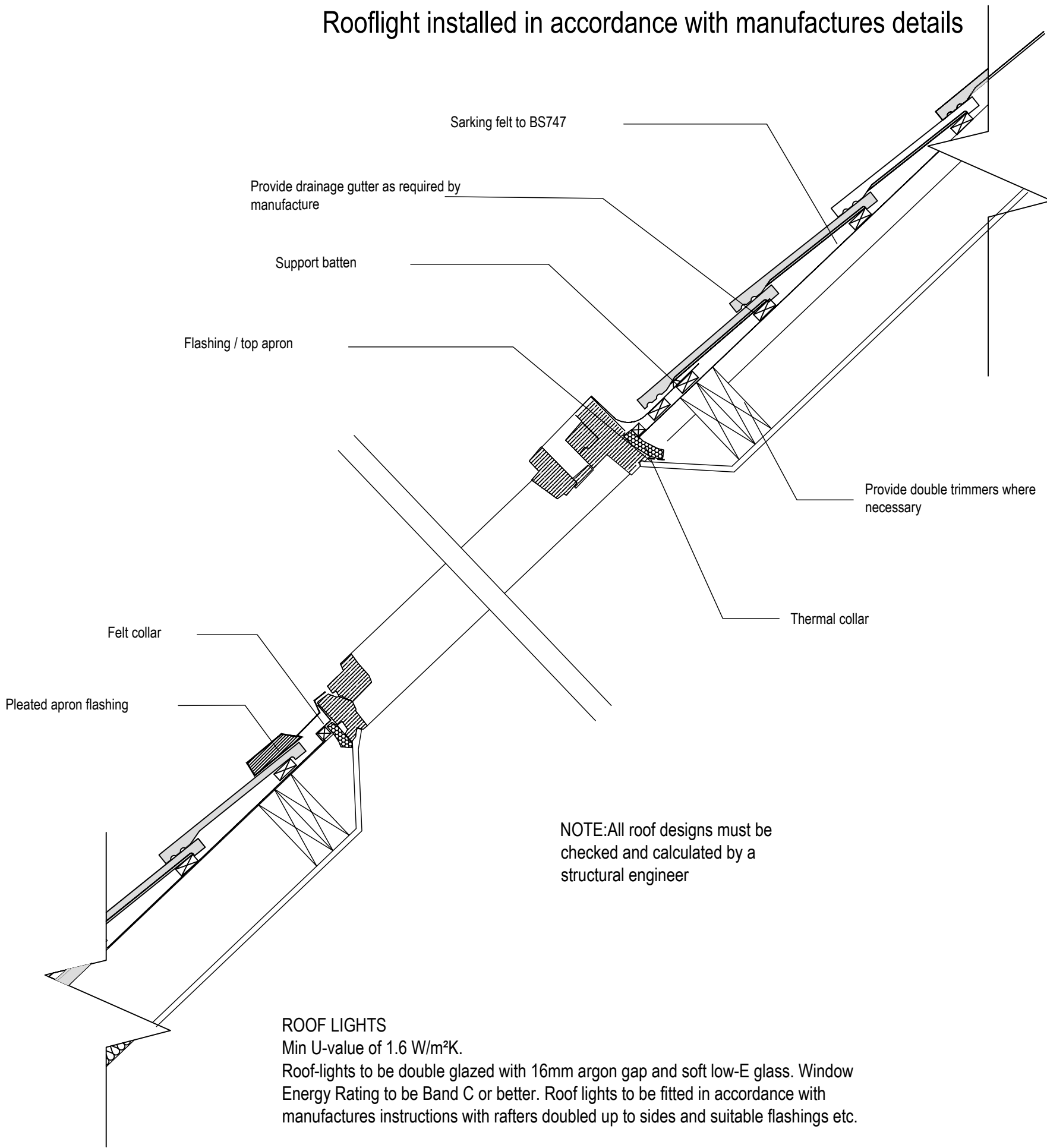
Rooflight installed in accordance with manufactures details



ROOF LIGHTS
Min U-value of 1.6 W/m²K.
Roof-lights to be double glazed with 16mm argon gap and soft low-E glass. Window Energy Rating to be Band C or better. Roof lights to be fitted in accordance with manufactures instructions with rafters doubled up to sides and suitable flashings etc.

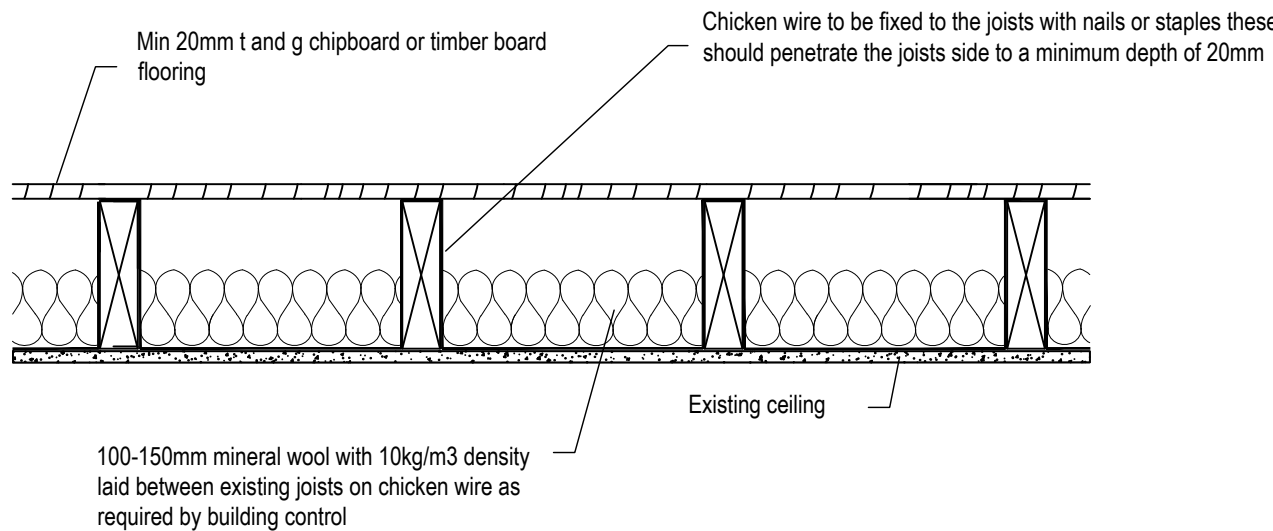
ROOFLIGHTS (SECTION)

Rooflight installed in accordance with manufactures details



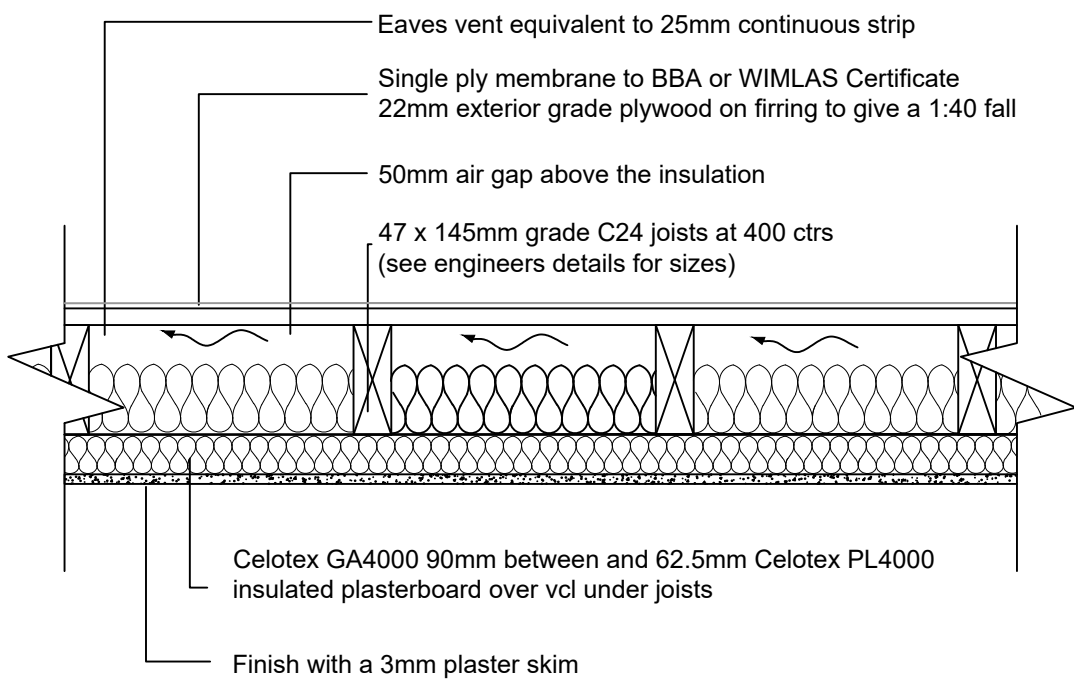
ROOF LIGHTS
Min U-value of 1.6 W/m²K.
Roof-lights to be double glazed with 16mm argon gap and soft low-E glass. Window Energy Rating to be Band C or better. Roof lights to be fitted in accordance with manufactures instructions with rafters doubled up to sides and suitable flashings etc.

UPGRADING EXISTING LOFT FLOOR



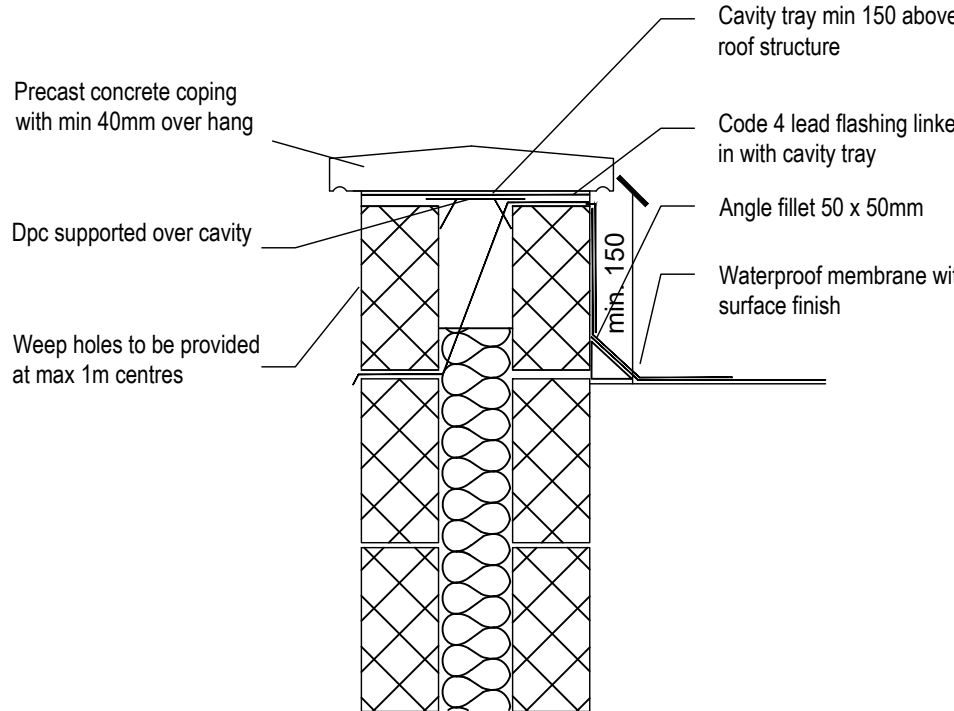
UPGRADE OF EXISTING FLOORS
Ensure first floor achieves modified half-hour fire resistance.
New second floor – Joists to be 50mm minimum from chimney breasts. (joist size to structural engineer's details and calculations) Provide min 20mm t and g chipboard or timber board flooring. In areas such as kitchens, utility rooms and bathrooms flooring to be moisture resistant grade in accordance with BS EN 312:2010). Identification marking must be laid upper most to allow easy identification. To upgrade to half hour fire resistance and provide adequate sound insulation lay minimum 150mm Rockwool insulating material or equivalent on chicken wire between joists and extended to eaves. Chicken wire to be fixed to the joists with nails or staples these should penetrate the joists side to a minimum depth of 20mm, in accordance with BRE-Digest 208 1988. Joists spans over 2.5m to be strutted at mid span use 38 x 38mm herringbone strutting or 38mm solid strutting (at least 2/3 of joist depth). Provide lateral restraint where joists run parallel to walls. Floors are to be strapped to walls with 1000mm x 30mm x 5mm galvanised mild steel straps or other approved in compliance with BS EN 845-1 at max 2.0m centres, straps to be taken across minimum 3 no. joists. Straps to be built into walls. Provide 38mm wide x ¾ depth solid noggins between joists at strap positions.

COLD FLAT ROOF

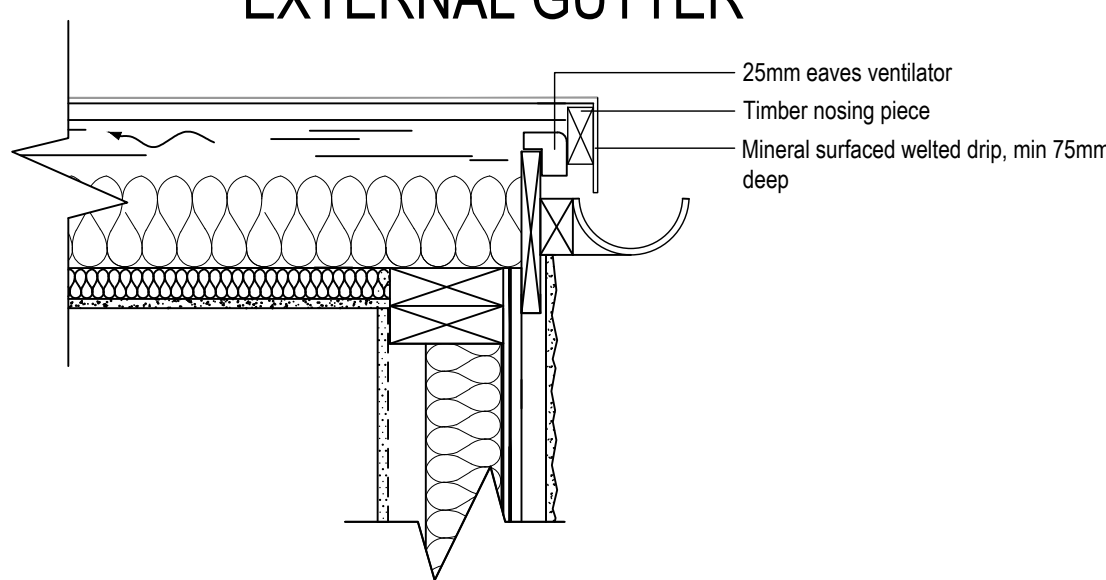


VENTILATED FLAT ROOF
(imposed load max 1.0 kN/m² - dead load max 0.75 kN/m²)
To achieve U value of 0.18 W/m²K
Flat roof to be single ply membrane roofing with aa fire rating as specialist specification, with a current BBA or WIMLAS Certificate on 22mm exterior grade plywood, laid on firings to give a 1:40 fall on 47 x 145mm grade C24 timber joists at 400 ctrs max span 3.19m (see engineer's details for sizes). Cross-ventilation to be provided on opposing sides by a proprietary eaves ventilation strip to give 25mm continuous ventilation, with fly proof screen. Flat roof insulation is to be continuous with the wall insulation but stopped back to allow a continuous 50mm air gap above the insulation for ventilation. Insulation to be Celotex GA4000 90mm between and 62.5mm Celotex PL4000 insulated plasterboard under joists placed over vapour barrier with skim plaster finish. Provide cavity tray where pitched roof meets existing wall.

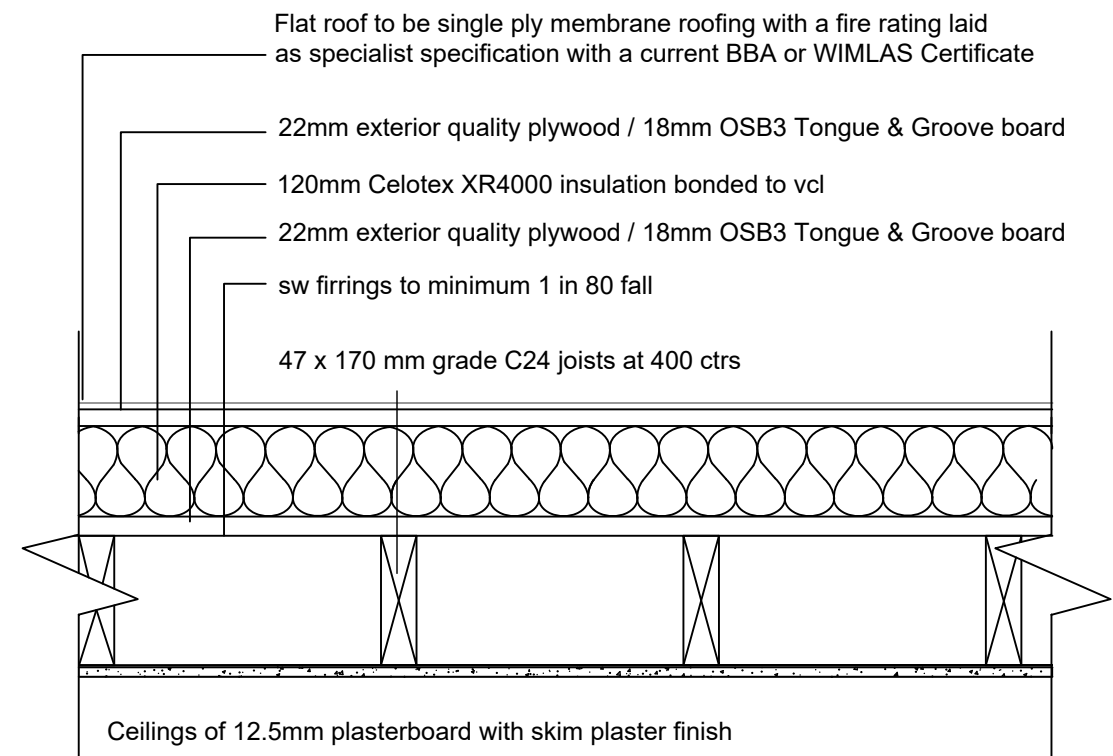
PARAPET WITH FLAT ROOF DETAIL



WELTED DRIP TO EXTERNAL GUTTER

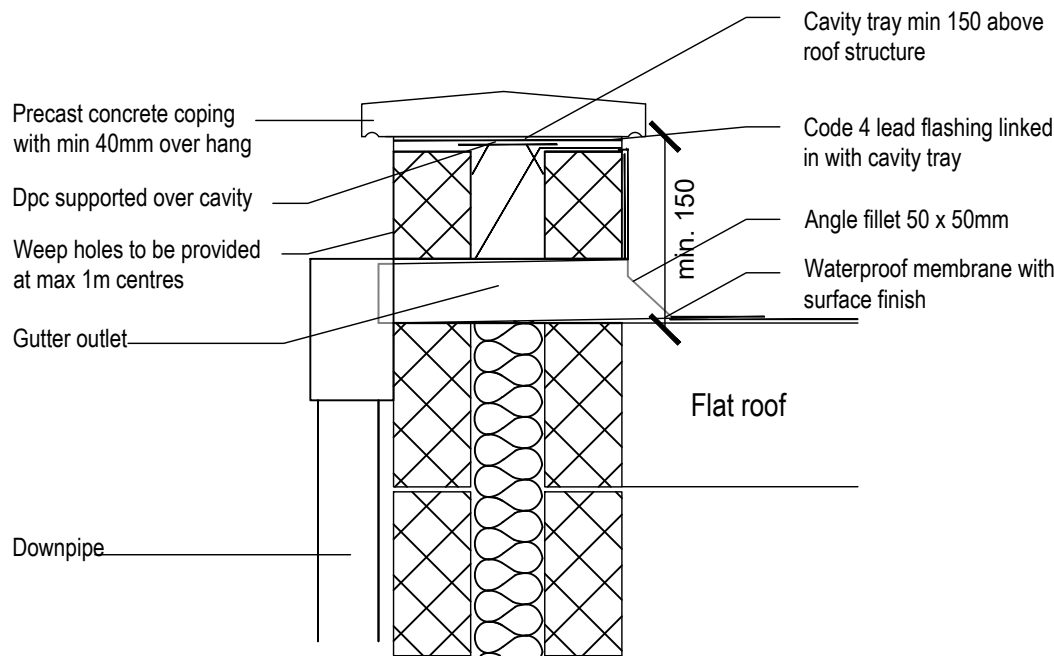


WARM FLAT MEMBRANE ROOF

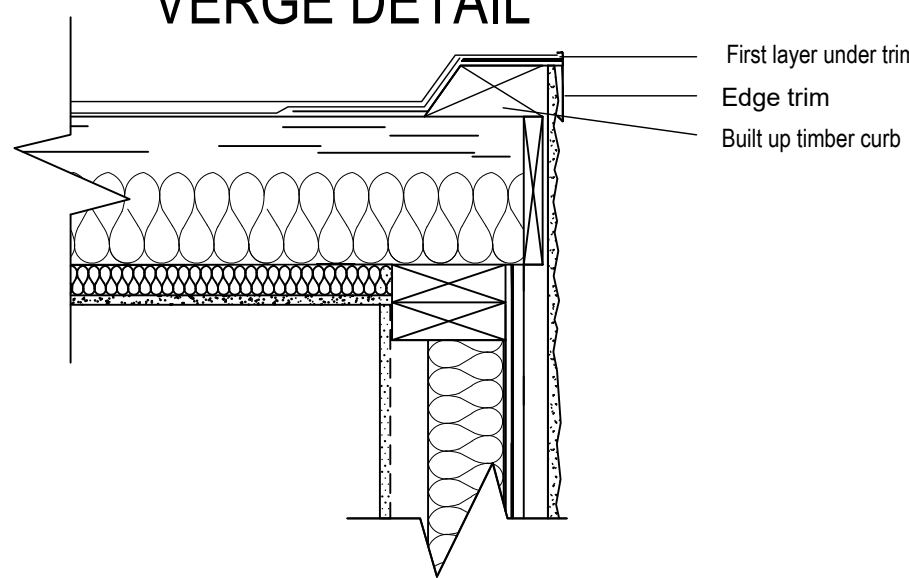


WARM FLAT ROOF
(imposed load max 1.0 kN/m² - dead load max 0.75 kN/m²)
To achieve U value 0.18 W/m²K
Flat roof to be single ply membrane roofing providing aa fire rating for surface spread of flame with a current BBA or WIMLAS Certificate and laid to specialist specification. Single ply membrane to be fixed to 22mm exterior quality plywood / 18mm OSB3 Tongue & Groove board over 120mm Celotex XR4000. Insulation bonded to vcl on 22mm exterior quality plywood / 18mm OSB3 Tongue & Groove board on sw firings to minimum 1 in 80 fall on sw treated 47 x 170mm C24 flat roof joists at 400mm ctrs. Underside of joists to have 12.5mm plasterboard and skim. Provide cavity tray to existing house where new roof abuts existing house.

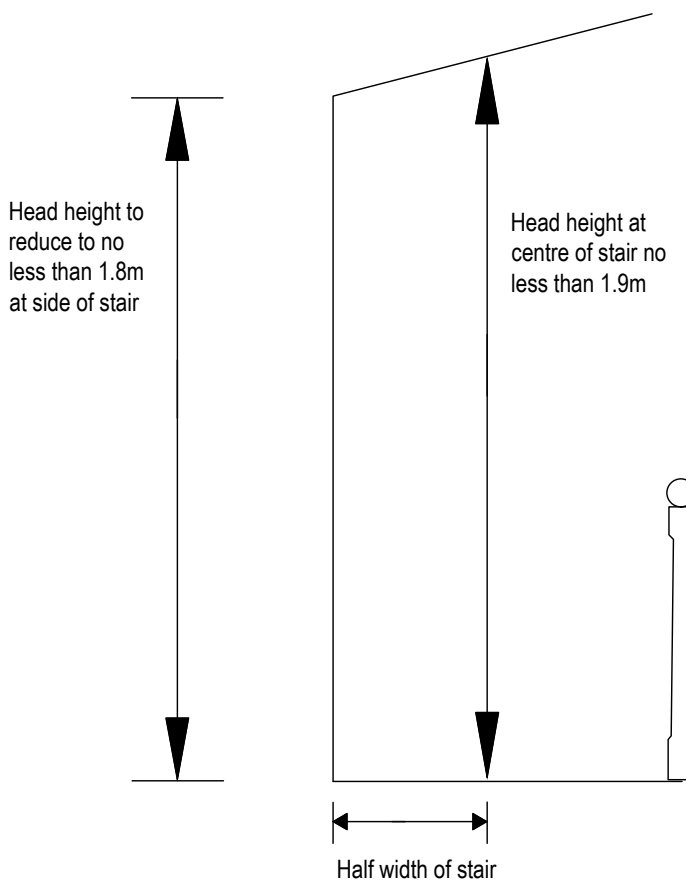
PARAPET WITH FLAT ROOF DETAIL



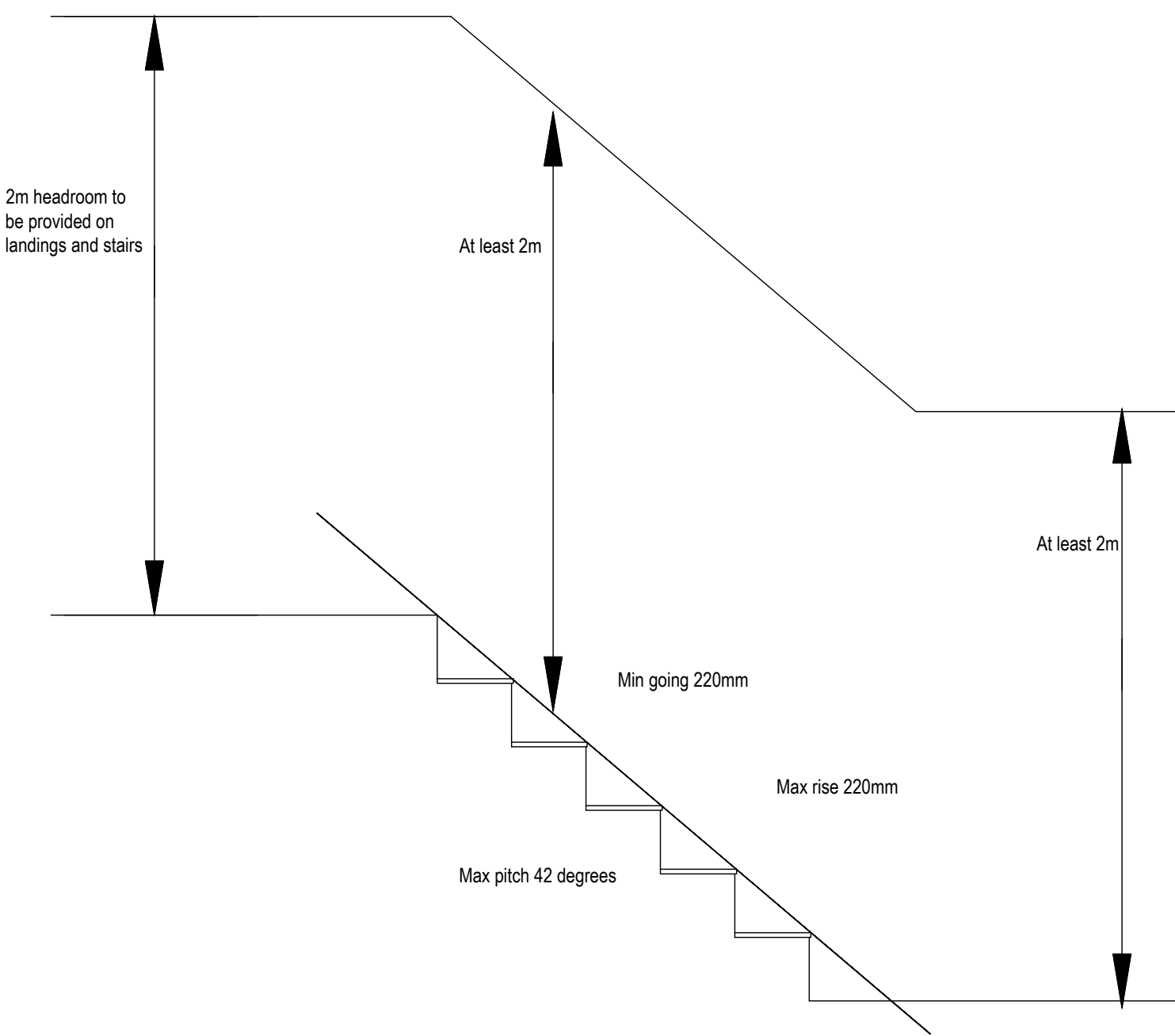
VERGE DETAIL



REDUCED HEADROOM FOR LOFT STAIRS



HEADROOM FOR NEW STAIRS



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Site	Elmhurst, 84 Boston Rd, Kirtton, Boston, Lincs PE20 1ER	Date	15.07.2021
		Sheet	21-1051 D09 Rev 0
		Job	New Extension & Loft Conversion
		Scale	As Shown@A1
		Title	Section Detail Drawings 1:10