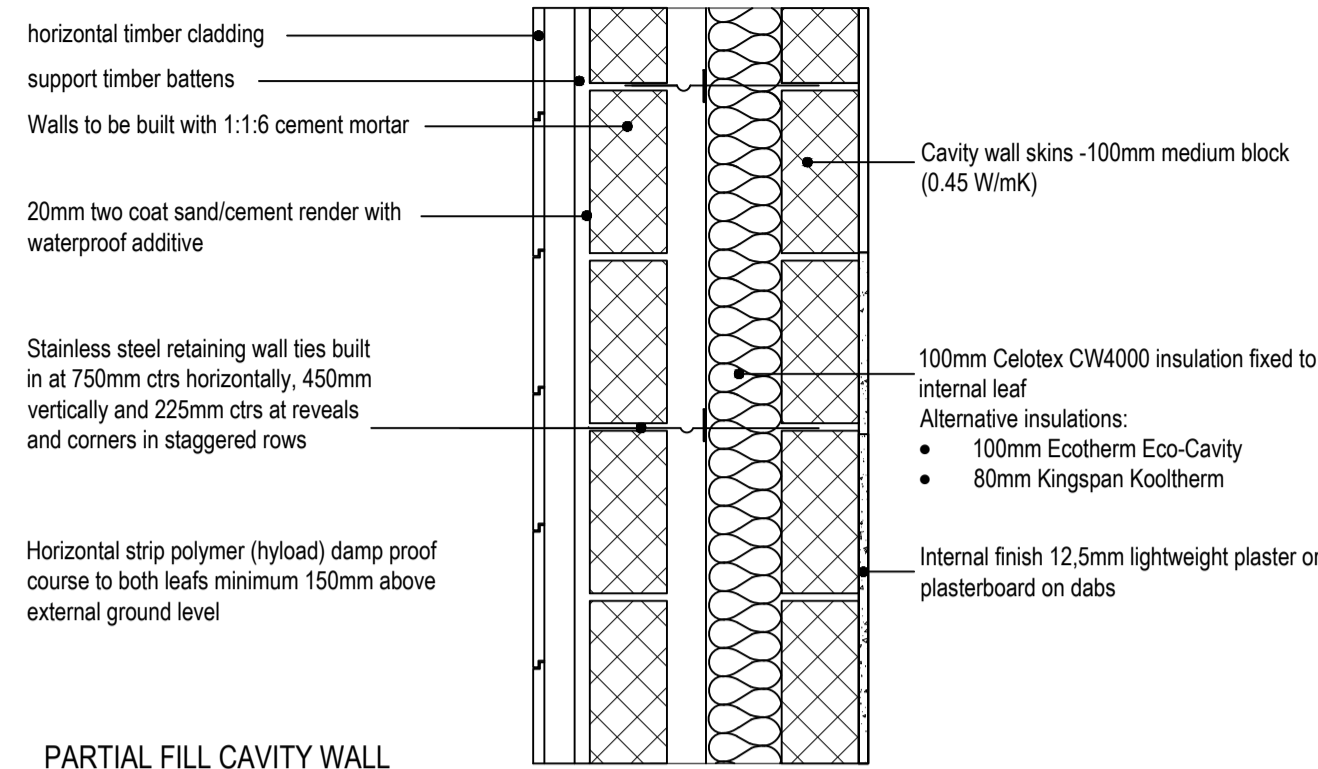


STANDARD PARTIAL FILL CAVITY WALL

7



PARTIAL FILL CAVITY WALL

To achieve minimum U Value of 0.18W/m²K

Horizontal timber cladding with support timber battens on 100mm medium dense block. Ensure a 50mm clear residual cavity and provide 100mm Celotex CW4000 insulation fixed to inner leaf constructed using 100mm medium block, 0.45 W/m²K. Internal finish to be 12.5mm plasterboard on dabs. Walls to be built with 1:1.6 cement mortar. Walls within 1m of the boundary to achieve 1/2 hour fire resistance. Timber cladding to be treated with Fire Retardant Coating for Timber (ESVFR & QVFR) or similar paint system to achieve class 0 (National class) or Class B - s3, d2 rating (European class).

DPC

Provide horizontal strip polymer (hyload) damp proof course to both internal and external skins minimum 150mm above external ground level. New DPC to be made continuous with existing DPC's and with floor DPM. Vertical DPC to be installed at all reveals where cavity is closed.

WALL TIES

All walls constructed using stainless steel vertical twist type retaining wall ties built in at 750mm centres horizontally, 450mm vertically and 225mm centres at reveals and corners in staggered rows. Wall ties to be suitable for cavity width and in accordance with BS EN 845

CAVITIES

Provide cavity trays over openings. All cavities to be closed at eaves and around openings using Thermabate or similar non combustible insulated cavity closers. Provide vertical DPCs around openings and abutments. All cavity trays must have 150mm upstands and suitable cavity weep holes (min 2) at max 900mm centres.

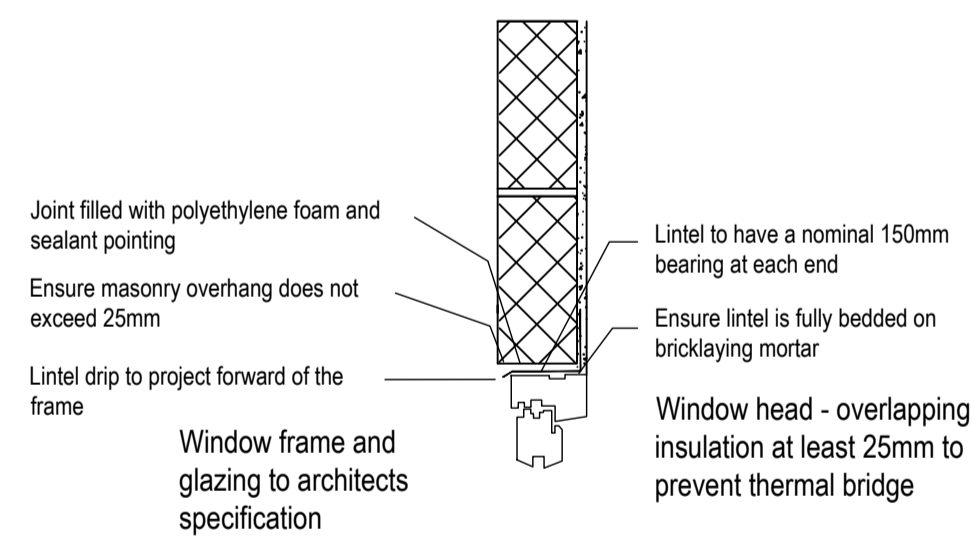
EXISTING TO NEW WALL

Cavities in new wall to be made continuous with existing where possible to ensure continuous weather break. If a continuous cavity cannot be achieved, where new walls abuts the existing walls provide a movement joint with vertical DPC. All tied into existing construction with suitable proprietary stainless steel profiles.

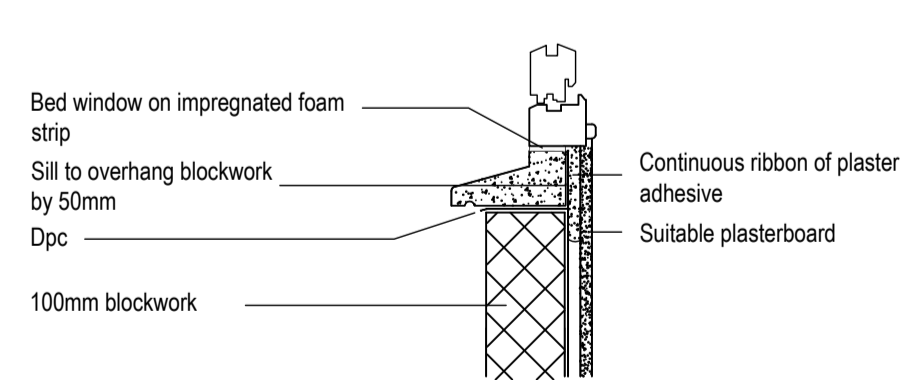
CAVITY BARRIERS

30 minute fire resistant cavity barriers to be provided at at tops of walls, gable end walls and vertically at junctions with separating walls & horizontally at separating walls with cavity tray over installed according to manufacturer's details.

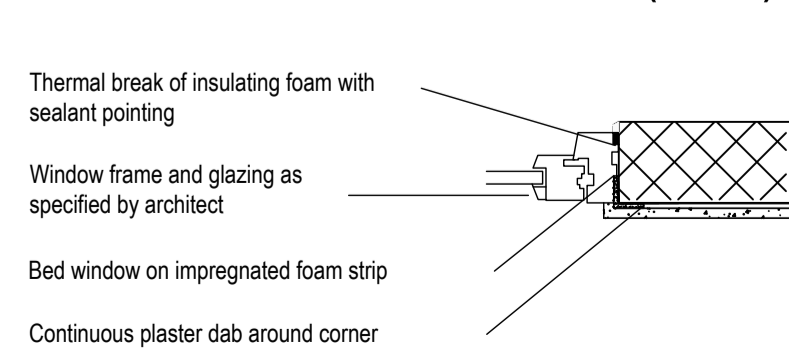
WINDOW HEAD AND LINTEL



WINDOW SILL

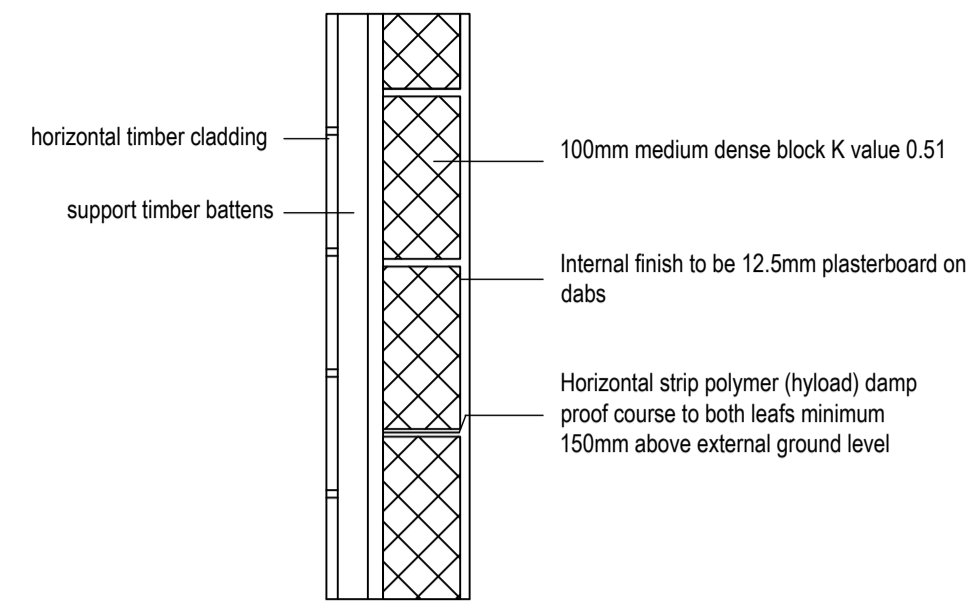


WINDOW REVEAL (Plan)



SOLID BLOCK WALL 100mm

8



SOLID WALL

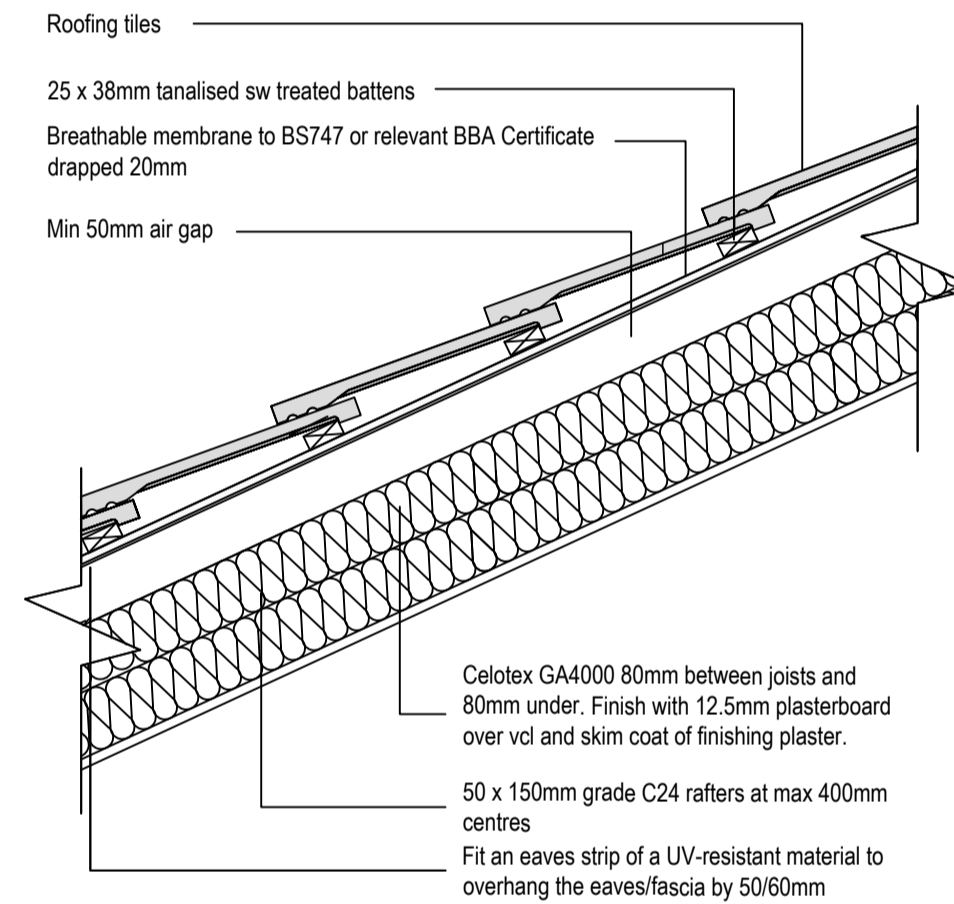
Horizontal timber cladding with support timber battens on 100mm medium dense block. Wall constructed using 100mm medium dense block. Provide a 12.5m plasterboard and skim to internal face as required.

DPC

Provide horizontal strip polymer (hyload) damp proof course to both internal and external skins minimum 150mm above external ground level. New DPC to be made continuous with existing DPC's and with floor DPM. Vertical DPC to be installed at all reveals where cavity is closed.

COLD PITCHED ROOF

11



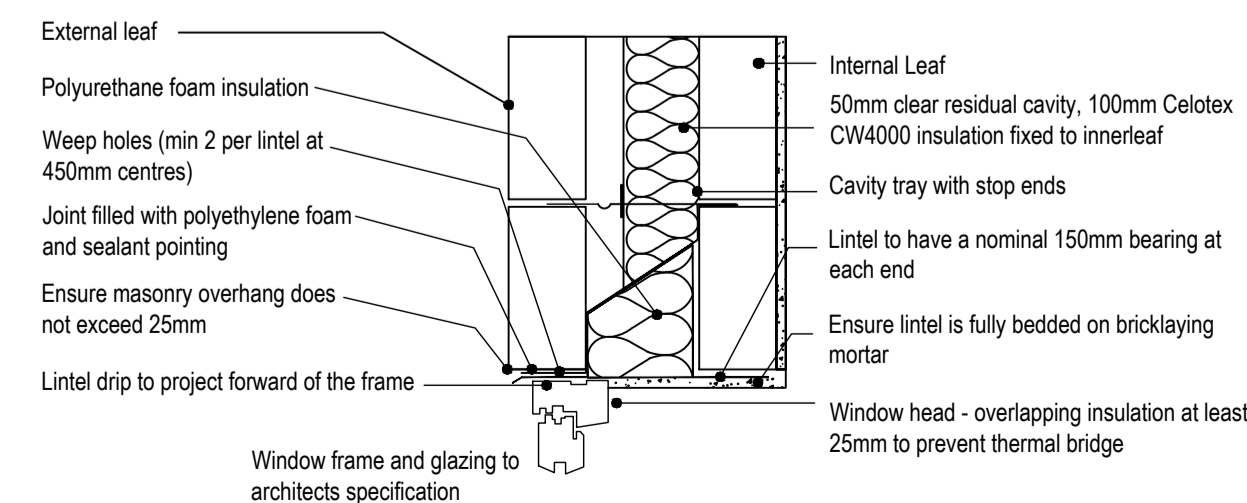
PITCHED ROOF

(imposed load max 0.75 kN/m² - dead load max 0.75 kN/m²)

To achieve U-value 0.15 W/m²K

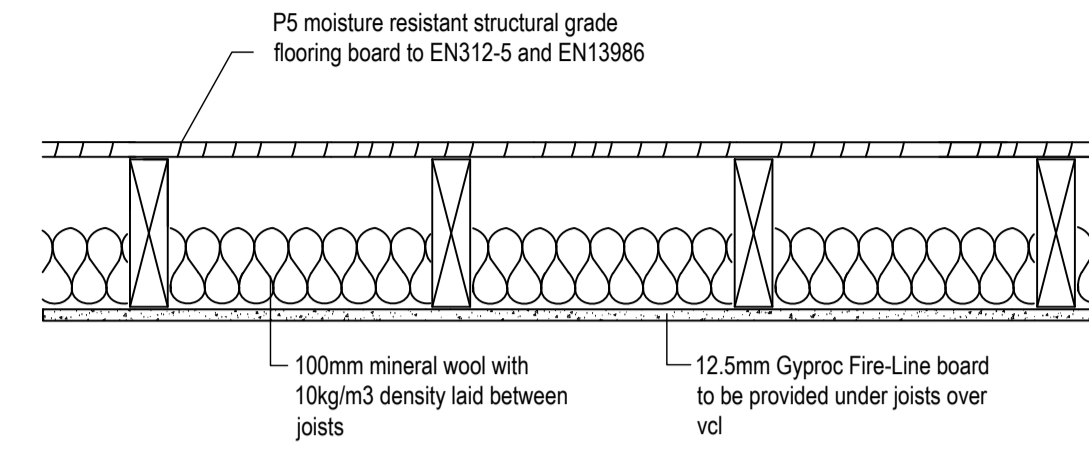
Timber roof structures to be designed by an Engineer in accordance with NHBC Technical Requirement R5 Structural Design. Calculations to be based on BS EN 1995-1-1. Roofing tiles to match existing on 25 x 38mm tanalised sw treated battens on breathable membrane to relevant BBA Certificate. Supported on 50 x 150mm grade C24 rafters at max 400mm centres. Rafters supported on 100 x 50mm sw wall plates. Insulation to be Celotex GA4000 80mm between and 80mm under joists. Finish with 12.5mm plasterboard over vcl and skim coat of finishing plaster.

WINDOW HEAD AND LINTEL



INTERMEDIATE TIMBER FLOOR

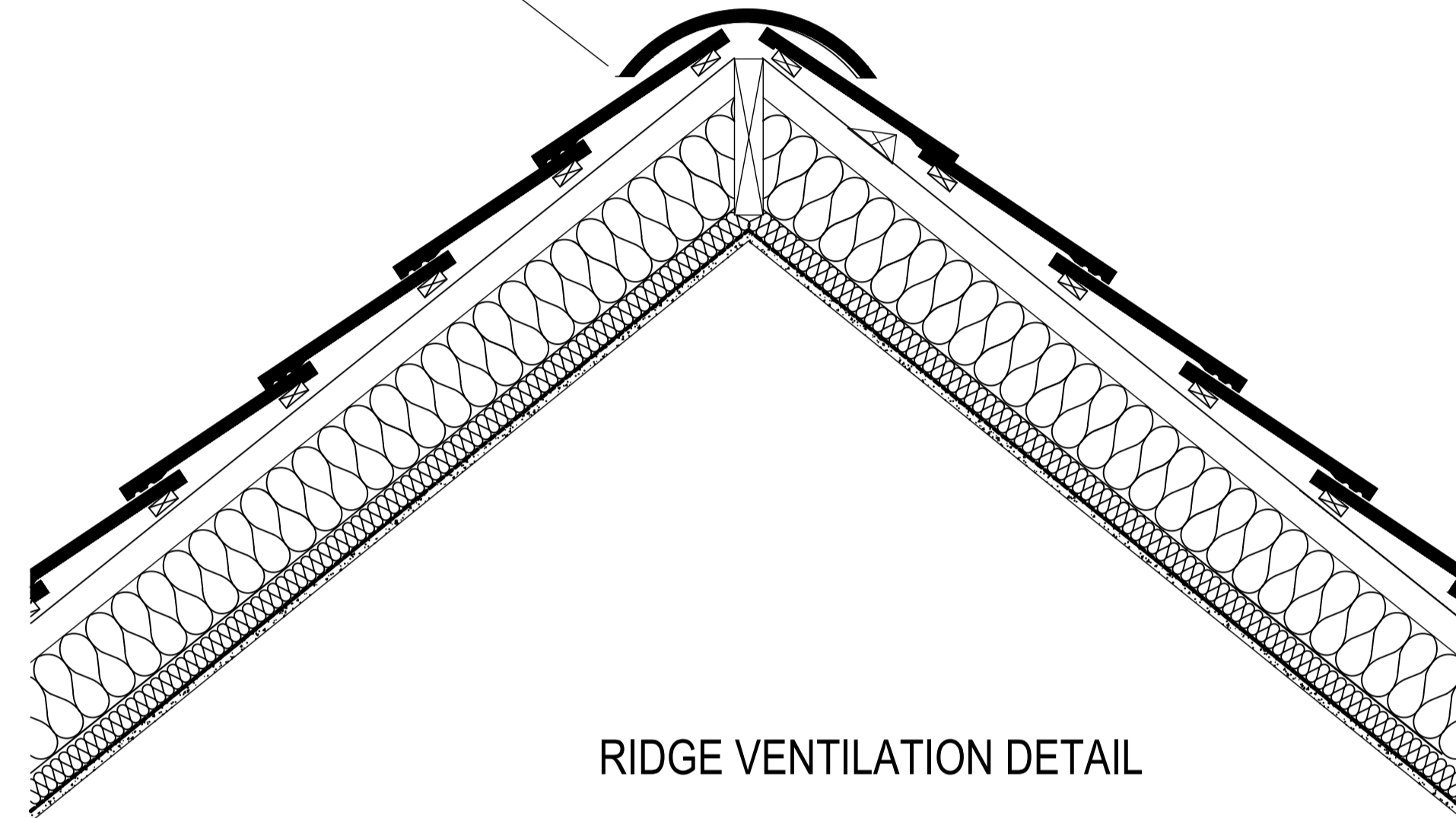
9



RIDGE VENTILATION DETAIL

Structural design by suitably qualified engineer

A continuous 5mm wide opening or the equivalent area is required to the length of the ridge or provide high level tile vents as agreed with the Building Control Officer



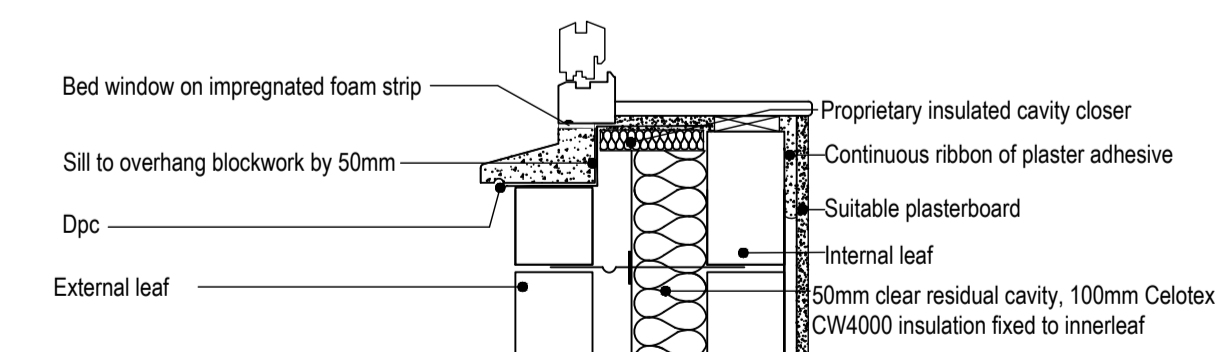
RIDGE VENTILATION DETAIL

Structural design by suitably qualified engineer

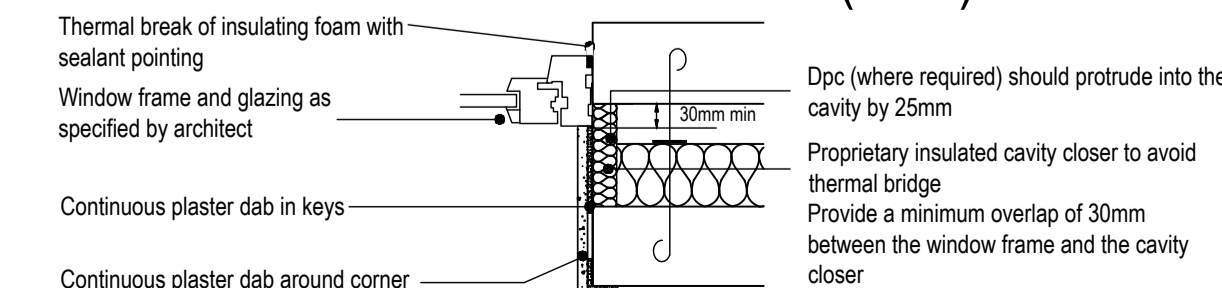
A continuous 5mm wide opening or the equivalent area is required to the length of the ridge or provide high level tile vents as agreed with the Building Control Officer

A stepped cavity tray linked to a stepped flashing should be used. Stepped flashings should be cut from a strip at least 150mm wide. Soakers or a secret gutter should be installed at abutments where slates, flat interlocking tiles plain tiles are used. Weepholes to be provided min 1 per tray

WINDOW SILL

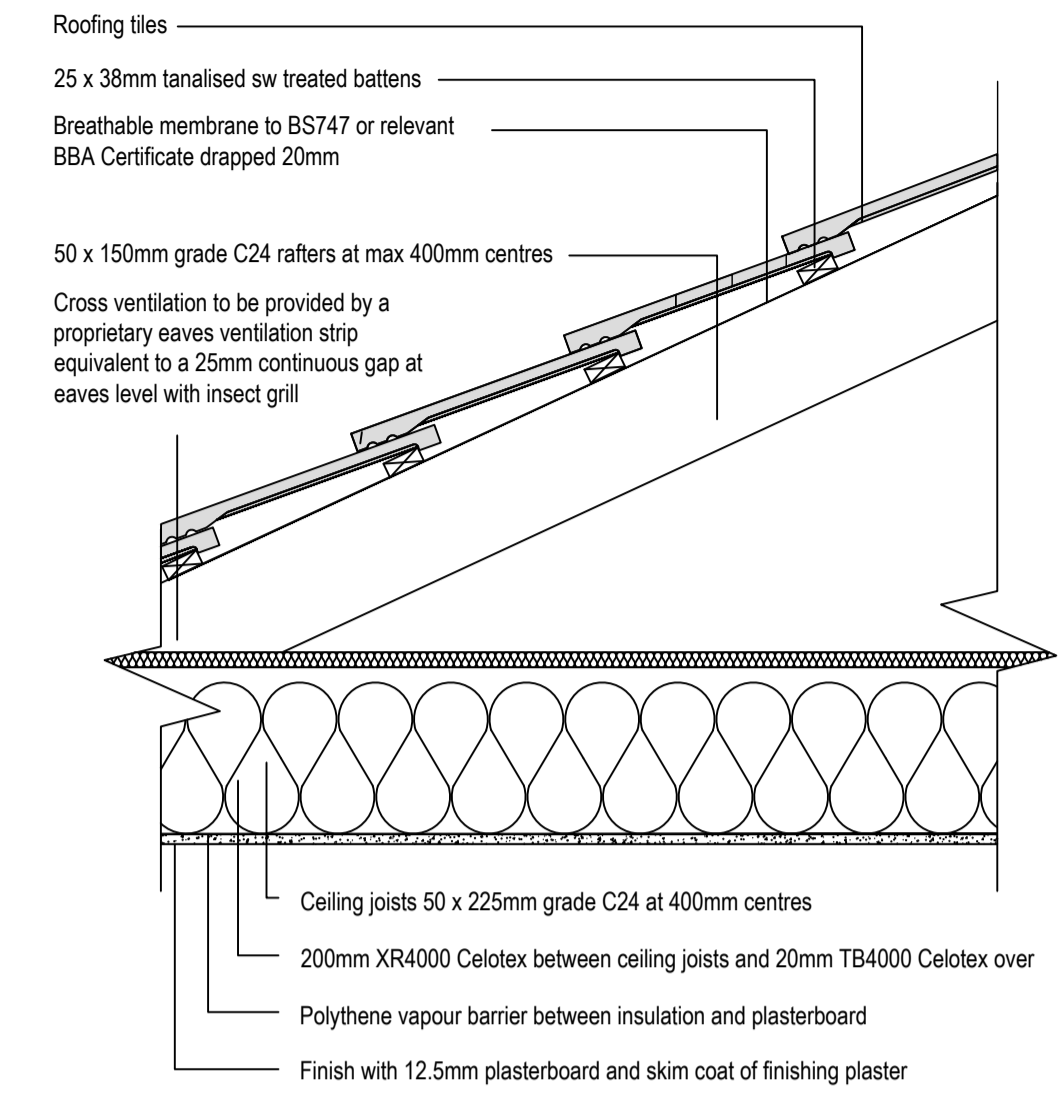


WINDOW REVEAL (Plan)



COLD PITCHED ROOF

10

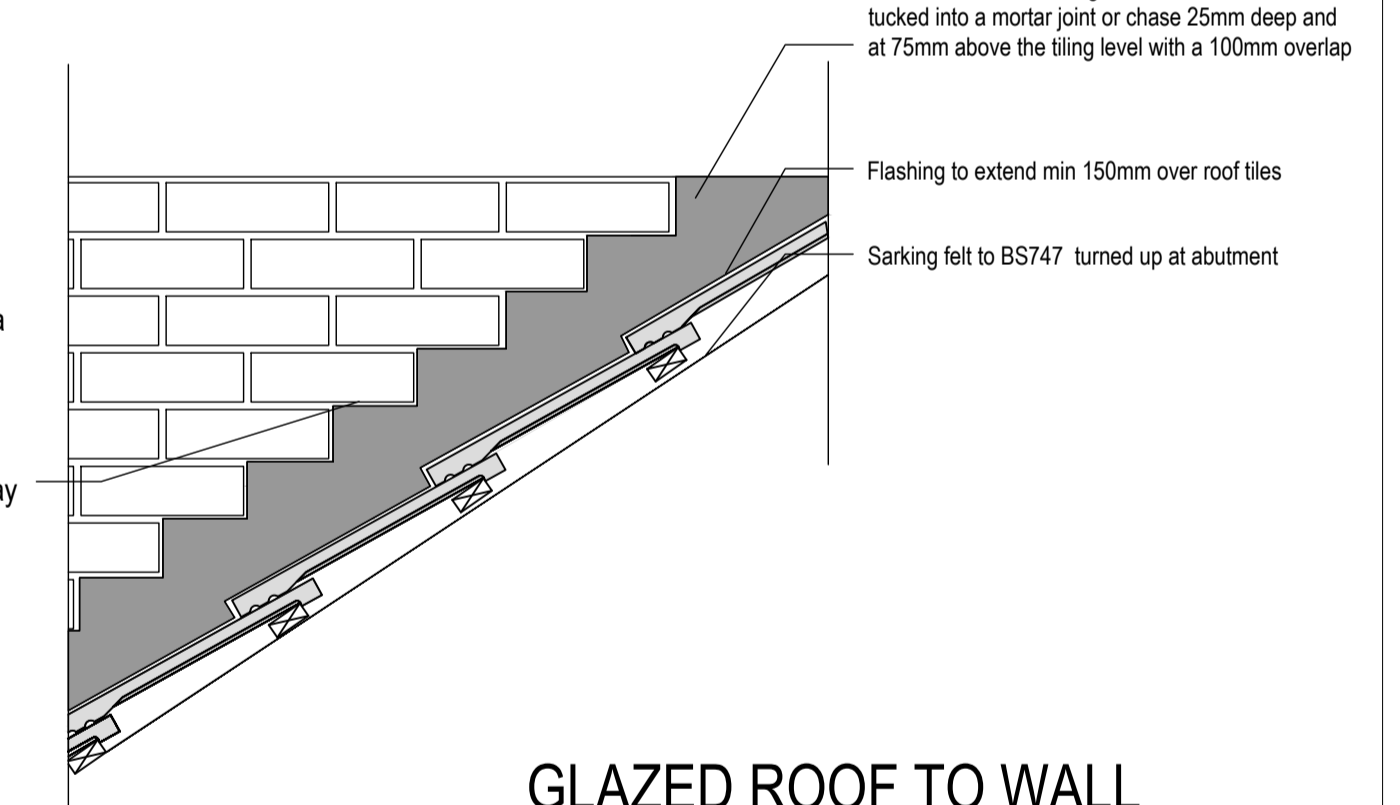


PITCHED ROOF INSULATION AT CEILING LEVEL

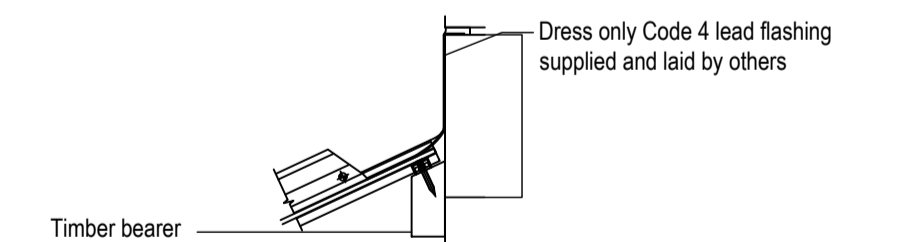
To achieve U value of 0.15 W/m²K

Timber roof structures to be designed by an Engineer in accordance with NHBC Technical Requirement R5 Structural Design. Calculations to be based on BS EN 1995-1-1. Roofing tiles to match existing on 25 x 38mm tanalised sw treated battens on breathable membrane supported on 50 x 150mm grade C24 rafters at max 400mm centres. Rafters supported on 100 x 50mm sw wall plates. Insulation at ceiling level to be 200mm XR4000 Celotex between ceiling joists with a futher 20mm TB4000 Celotex over joists. Construct ceiling using sw joists at 400mm centres, finished with 12.5mm plasterboard and skim coat of finishing plaster. Provide polythene vapour barrier between insulation and plasterboard. Provide opening at eaves level at least equal to continuous strip 25mm wide in two opposite sides to promote cross-ventilation. Mono pitched roofs to have ridge/high level ventilation equivalent to a 5mm gap via proprietary tile vents spaced in accordance with manufacturer's details.

PITCHED ROOF ABUTMENT WITH CAVITY WALL



GLAZED ROOF TO WALL CONNECTION



Arkiplan
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Site	2 Top Road, Hasketon, Woodbridge IP13 6JF	Date	30.11.2023
		Sheet	23-1886 D12 REV 1
Title Number	SK191800	Job	New Extension
		Scale	Not To Scale
Title		Section Detail Drawings 1:10	