EXTEN 0 d Ш ď STOREY

ROOF DETAIL

Breathable sarking felt to BS747 or relevant BBA Certificate

There should be a minimum 10mm gap between the membrane and the tile / slate batten to afford a drainage channel for any penetrating rain

Roofing slates to match existing

47 x 100mm Grade C16 rafters at max 400mm centres max span 2.47m

100 x 50 C16 ceiling joists at 400mm centres fixed to rafter feet and wall plate and 100 x 50 timber pole plate resin bolted to wall

Fit an eaves strip of a UV-resistant material to overhang the eaves / fascia by 50-60mm 270 mm guilt insulation at ceiling level

12.5 mm plaster board fixed to ciling joists with 5mm skim coat of finishing plaster

TRENCH FOUNDATION

750mm x 600mm trench fill foundations, concrete mix to conform to BS EN 206-1 and BS 8500-2. All foundations to be a minimum of 800mm below ground level, exact depth to agreed on site with BCO to suit site conditions. Ensure foundations are constructed below invert level of any adjacent drains.

SOLID FLOOR INSULATION UNDER SLAB

To meet min U value required of 0.22 W/m_K Solid ground floor to consist of 150mm consolidated well-rammed hardcore. Blinded with 50mm sand blinding. Provide a 1200mm gauge polythene DPM, DPM to be lapped in with DPC in walls. Floor to be insulated over DPM with 75mm thick Celotex with 25mm insulation to continue around floor perimeters to avoid thermal bridging. Provide 100mm ST2 or Gen2 ground bearing slab concrete mix to conform to BS 8500-2 over insulation.

DPC

Provide horizontal strip polymer (hyload) damp proof course to both leafs 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.

FULL FILL CAVITY WALL

To achieve minimum U Value of 0.28W/m K 20mm two coat sand/cement render to comply to BS 5262 with waterproof additive on 100mm lightweight block, K value 0.16, (Aircrete, Celcon solar, Topblock Toplite Standard). Fully fill the cavity with 90mm Rockwool Cavity insulation as manufacturer's details. Inner leaf to be 100mm lightweight, K value 0.16, (Aircrete, Celcon solar, Topblock toplite standard). Internal finish to be 12.5 mm plasterboard on dabs. Walls to be built with 1:1:6 cement mortar.

WALL TIES

All walls constructed with stainless steel vertical twist type retaining wall ties built in at 750mm ctrs horizontally, 450mm vertically and 225mm cts at reveals and corners in staggered rows. Wall ties to be suitable for cavity width and in accordance with BS 1243.

EXISTING TO NEW WALL

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.

FOUNDATION DETAIL

100M Dritherm Cavity Batt Insulation

100mm lightweight block, K value 0.16, (Aircrete, Celcon solar, Topblock Toplight Standard)

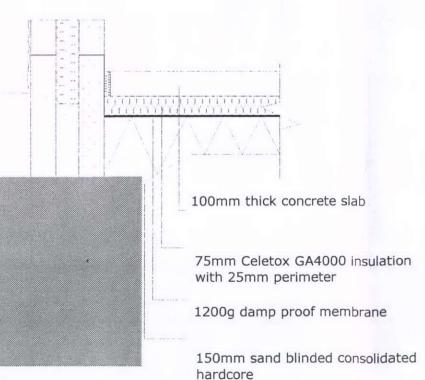
20mm two coat sand/cement render

DPC 150mm above ground

Lean mix cavity fill 225mm below DPC

600mm wide concrete trench foundation minimum grade of ST1

Depth to be 750mm deep depending on ground conditions to be agreed with BCO



WALL DETAIL

Walls to be built with 1:1:6 cement mortar 20mm two coat sand/cement render Stainless steel retaining wall ties built in at 750mm ctrs horizontally, 450mm vertically and 225mm cts at reveals and corners in staggered rows Horizontal strip polymer (hyload) damp proofcourse to both leafs minimum 150mm above external ground level

100mm lightweight block, K value 0.16,(Aircrete, Celcon solar, Topblock Toplight Standard)

100mm Dritherm cavity batts

Internal finish to be 12.5mm plasterboard on dabs