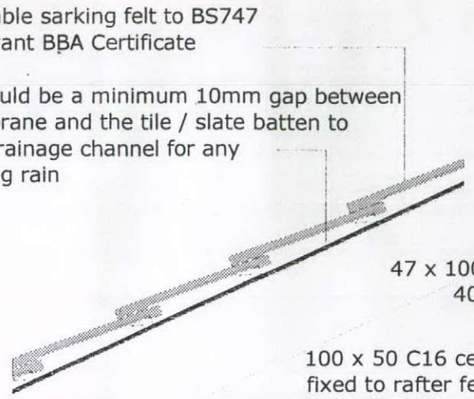
141 MARKET STREET CHAPEL EN LE FRITH HIGH PEAK SK23 0NT
SINGLE STOREY REAR EXTENSION

ROOF DETAIL



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.

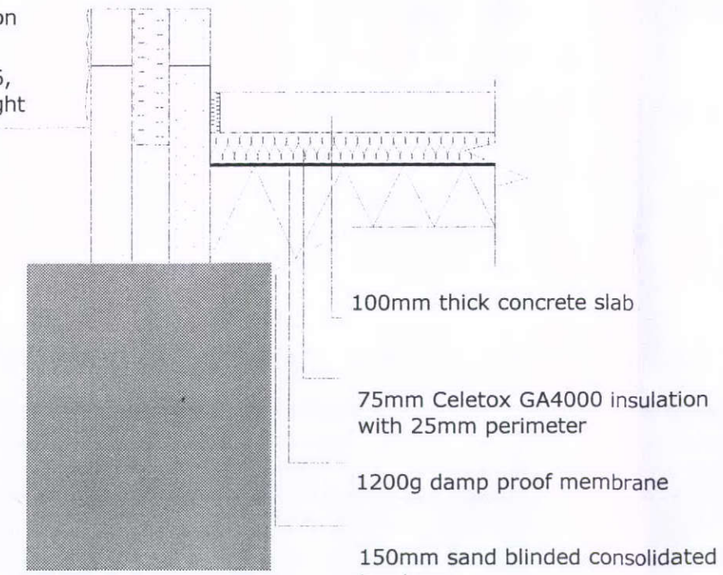
WALL TIES

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.

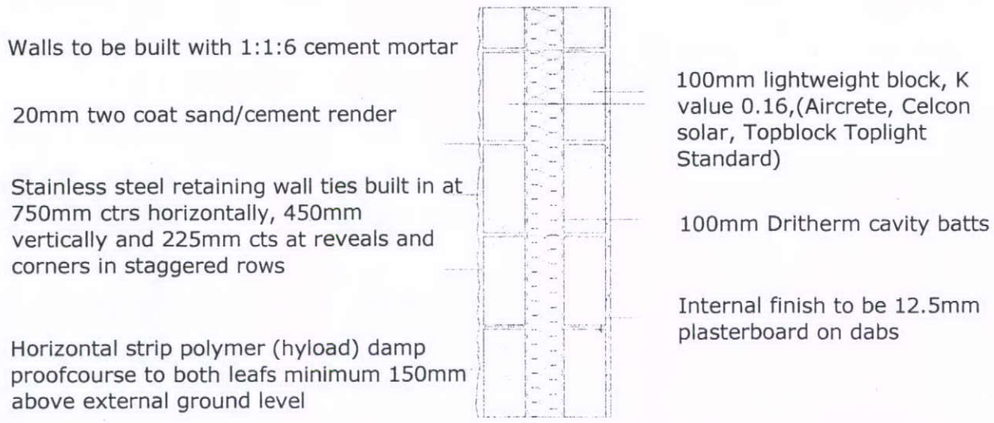
EXISTING TO NEW WALL

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



WALL DETAIL



DRAWING NO 4