PITCHED ROOF INSULATION AT CEILING LEVEL

Pitch 22—45° (imposed load max 0.75 kN/m² — dead load max 0.75 kN/m²)

To achieve U value of 0.16 W/m²K

Roofing tiles to match existing on 25 x 38mm tanalised sw treated battens on sarking felt supported on 50 x 15mm grade C24 rafters at max 450mm centres max span 2.12m. Rafters supported on 100 x 50mm sw wall plates. Insulation at ceiling level to be 100mm Rockwool insulation laid between ceiling joists with a further 170mm layer over joists (cross direction)

Construct ceiling using sw joists at 400mm centres, finished internally with 12.5mm plasterboard and min 3mm thistle multi-finish plaster. Provide polythene vapour barrier between insulation and plasterboard. Provide opening at eaves level at least equal to continuous strip 25mm wide on 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. Restraint strapping — 100mm x 50mm wall plate strapped down to walls. Ceiling joists and rafters to be strapped to walls and gable walls, straps built into cavity, across at least 3 timbers with noggins. All straps to be 1000 x 30 x 5mm galvanized straps or other approved to BSEN 845—1 at 2m centres.

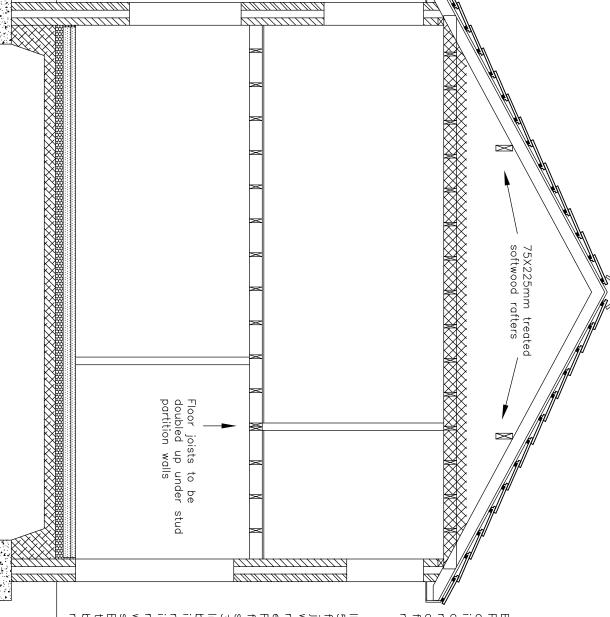
10kg/m? density acoustic soundproof quilt tightly packed (eg. 100mm Rockwool or Isowool mineral fibre sound insulation) in all voids the full depth of the stud. Partitions built off doubled up joists where partitions run parallel or provide noggins where at right angles, or built off DPC on thickened concrete slab if solid ground floor. Walls faced throughout with 12.5mm plaster board with skim plaster finish. Taped and jointed complete with beads INTERNAL STUD PARTITIONS 100mm \times 50mm softwood treated timbers studs at 400mm ctr with 50 \times 100mm head and sole plates and solid intermediate horizontal noggins at 1/3 height or 450mm. Provide min stops ctrs

STRIP FOUNDATION Provide 225mm ×

Provide 225mm x 600mm concrete foundation, concrete mix to conform to BS EN 206-1 and BS 8500-2. All foundations to be a minimum of 1000mm below ground level, exact depth to be agreed on site with Building Control Officer to suit site conditions. All constructed in accordance with 2004 Building Regulations A1/2 and BS 8004:1986 Code of Practice for Foundations. Ensure foundations are constructed below invert level of any adjacent drains. Base of foundations supporting internal walls to be min 600mm below ground level. Sulphate resistant cement to be used if required. Please note that should any adverse soil conditions be found or any major tree roots in excavations, the Building Control Officer is to be contacted and the advice of a structural engineer should be sought.

SOLID FLOOR INSULATION OVER SLAB

To meet min U value required of 0.22 W/m²K Solid ground floor to consist of 150mm consolidated well—rammed hardcore. Blinded with 50mm sand blinding. Provide 100mm ST2 or Gen2 ground bearing slab concrete mix to conform to BS 8500-2 over a 1200mm gauge polythene DPM. DPM to be lapped in with DPC in walls. Floor to be insulated over slab and DPM with min 75mm Kingspan Kooltherm K3. 25mm insulation to continue around floor perimeters to avoid thermal bridging. A VCL should be laid over the insulation boards and turned up 100mm at room perimeters behind the skirting, all joints to be lapped 150mm and sealed. Finish with 65mm new extension, ensure cross—ventilation is maintained by connecting to 100mm dia UPVC pipes with 100mm concrete cover laid under the extension. Pipes to terminate at new 65mm x 215mm air bricks with cavity tray over. sand/cement finishing screed with light mesh reinforcement. Where drain runs pass under new floor, provide A142 mesh 1.0m wide and min 50mm concrete cover over length of drain. Where existing suspended timber floor air bricks are covered by



Provide emergency egress windows to any newly created first floor habitable rooms and ground floor inner rooms. Windows to have an unobstructed openable area of 450mm high x 450mm wide, minimum 0.33m sq. The bottom of the openable area should be not more than 1100mm above the floor. The window should enable the person to reach a place free from danger from fire Provide em

INTERMEDIATE FLOORS
50X170MM Intermediate floor to be 25mm t&g
flooring grade chipboard or floorboards laid on C24
joists at 400mm ctrs floor joist size to be agreed
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joists at 400mm ctrs floor joist size to be agreed noggins between between floor joists. Ceiling to to

DRWG PROPOSAL: TWO STOREY DATE: NOVEMBER 2015 ADDRESS: 197 DEYSBROOK LANE APPLICANT:MR & MRS NO: 02015 STRINGFELLOW EXTENSI 5,0 L12 0 SIDE ELEVATION

SCALE

1:50

YPICAL SECTION THROUGH