



CONSTRUCTION NOTES (to comply with AD L1B of 2010)

These notes apply only to the new extension LISTED BUILDING

FOUNDATIONS

Strip concrete foundations of minimum size 500mm x 750mm deep having a depth to base formation from finished ground level of 1000mm all being subject to conditions found on site upon excavation and in accordance with NHBC Regulations practice note 4.4-A 2000 edition - final decision on design and size type and depth to be agreed on site with the Local Authority Building Inspector - all masonry work below ground level to be in either 7kn dense concrete blockwork or class B semi-engineering brickwork to within 2 courses of finished ground level (or use Thermalite trench blocks if required)

DPC

Provide type for Polymer damp proof course to all walls minimum 150mm above ground level being 110mm wide x 14mm Dampcor or similar approved - ensure that dpc's are overlapped and are continuous - provide for horizontal and vertical dpc's around all sides of any openings in external walls and under eaves as required - all existing and new dpc's and dpm's to be linked

GROUND FLOOR SLAB

To comprise floor finish of 70mm screed over 100mm Celotex XR4100 rigid insulation slabs on a 100mm C.25 mix concrete as an over site slab formation with 3 coats of NESS Synthaprupe or RIV Compound as a dpm (linked to dpc's) and 150mm of well consolidated hardcore fill to achieve a U value of 0.22 Wm²/K

EXTERNAL WALLS

To comprise 300mm cavity wall construction of 102mm Facing bricks with a Sandtex or Dulux masonry paint finish (to match the existing walls) with a 100mm cavity partially filled using 50mm GA4050 Celotex boards secured by means of stainless steel wall ties at the rate of 5 per square meter to BS 1243 and an inner skin of Tarmac 100mm 3.6kn Gti blockwork with either 12.5mm plasterboard on dabs or 13mm light weight plaster as a finish to achieve a U value better than of 0.28 Wm²/K - all cavities closed at eaves

EXISTING (external) SINGLE SKIN WALLS

To the existing walls being 102mm brickwork extend existing as required and shown on drawings in height to suit new increased room heights and roof construction with facing brickwork and apply 3 coats of Ness Synthaprupe to the whole of the wall face (linked to the new dpm) with a 50mm clear cavity and an inner skin of Tarmac 100mm 3.6kn blockwork built up on the new floor slab ready for a timber stud wall of 100mm x 50mm timbers with an 8mm WBP Quality plywood face against the cavity and infill th stud wial with 100mm of Celotex GA4100 insulation slabs and finish same with 12.5mm foil backed plasterboard to achive a U value of not less than 0.28 Wm²/K (NOTE - the new flat roof construction does NOT bear on this new stud wall as the flat roof joist run in the same direction)

INTERNAL WALLS

To ground floor as shown to be in 100mm Tarmac non load bearing 2.8kn blockwork to the walls as shown on the floor plan with either 12.5mm plasterboard on dabs or 13mm light weight plaster finish both sides

WINDOWS and DOOR to LISTED BUILDING

All new windows and doors to be in softwood sections manufactured by Specialist Company having min. 6mm single glazing units (being Pilkington 'K' glass) with 8000mm² of trickle ventilation in either the heads or the sashes - each window to be min. 1/20th of the room floor area - all glazing to BS 6206 especially to critical areas of windows and door where below cill height of 800mm

JOINERY

All softwood joinery to be pressure impregnated preservative treated to comply with BS 4072

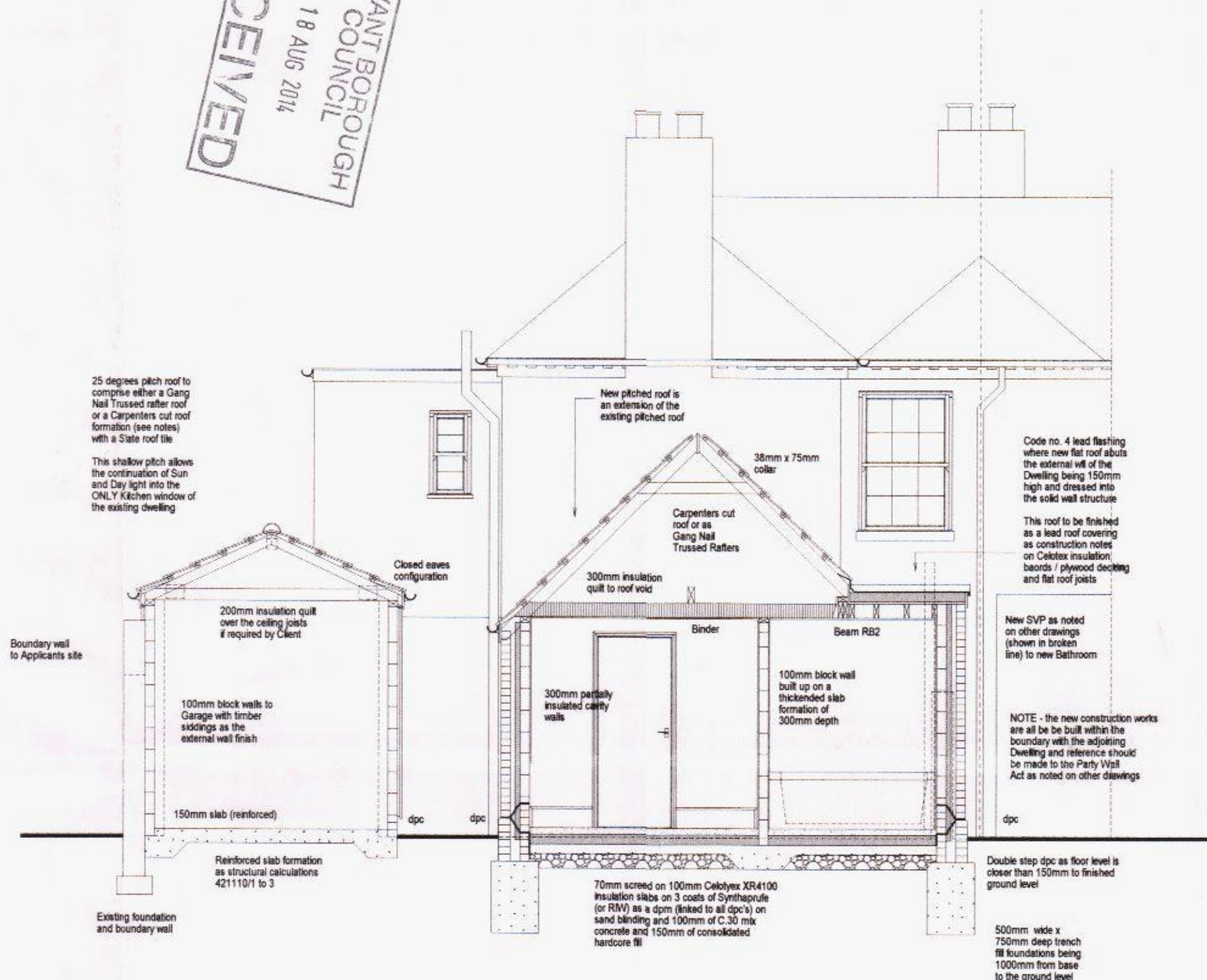
STRUC FURAL STABILITY / STRUCTURAL TIMBERS

Where rafters run parrell with external walls at any gable position provide for Catnic metal galvanised steel straps of size 100mm x 1000mm x 5mm at 1000mm centres and to all new wall plates provide same fixed to inner face of inner skin of walls at 1000mm centres (if deemed necessary) and where the new ceiling joists abut the new timber beams provide for Simpson GLTV hangers of Catnic joist hangers to support same

ROOF (pitched)

The new pitched roof is to comprise Natural Welsh slate roofing tiles in an approved colour (to match the existing Dwelling) fixed to 32mm x 25mm tanalised roofing battens to a 40 degree pitched roof construction (approx.) on Tyvek roofing felt (breathable) and either Gang Nail Trussed Rafters (factory fabricated) - (subject to CONDITIONAL APPROVAL) at 800mm centres with the toes to the truss ends (extended to abut the flat roof joists) all as shown on the section drawing - the roof void to be insulated with a minimum of 300mm thickness of Rockwool insulation quilt laid 150mm with the ceiling joist span and 150mm to the opposite direction and finished with 12.5mm foil backed plasterboard and set to achieve a U value of 0.16 Wm²/K or better - alternatively construct the pitch roof as a Carpenters cut roof using (TRADA TABLES) 47mm x 147mm C.16 Jack rafters at 400mm centres (max span of 3270mm) with 47mm x 145mm C.16 ceiling joists also at 400mm centres and a mid point binder being 63mm x 150mm C.16 (with max span of 2450mm) all to achieve a U value of 0.16 Wm²/K - where shown to any skiling provide for Celotex XR4100 insulation to same being 100mm between the rafters and Celotex PL4025 insulation boards plus the 12.5mm plasterboard to the underside of the rafters to achieve a U value of 0.18 Wm²/K

The new flat roof is to comprise 47mm x 147mm C.24 flat roof joists at 400mm centres (spanning form front to back) and supported on the existing 100mm internal brick walls and the new inner skin of the external extension wall with a 12.5mm foil backed plasterboard and set finish - provide for cross firings to the outside wall face with 22mm WBP Quality Plywood decking sheets ready for 120mm of Celotex TD4120 insulation boards laid over same and finish same as a Lead roof formation complying with the Lead Association Guidelines (with lead rolls and joist) as for a LISTED BUILDING application all to achieve a U value of 0.16 Wm²/K (WARM ROOF CONSTRUCTION)



SECTION A ELEVATION through GARAGE and EXTENSION

NOTE - See separate drawings for the elevations of all new and replacement windows and drawings issued by BERECO Ltd. showing Full size 1:1 sections of various elements to each window

NOTE - see Structural Calculation Sheets numbered 421110-1 to 3 for details of the new Roof Beams and Lintels and also the details of the slab formation to the new Garage

ROOF BEAM

RB1 2no. 100mm x 140mm deep Tarmac pre-cast concrete beam lintels
RB2 2no. 47mm x 147mm C.25 timbers

LINTELS

L1 Catnic CG90/100 or use IG L1/S 100
L2 100mm x 100mm Tarmac pre-cast concrete beam lintel

NOTE - The floor details as shown in these Structural Calculation sheets are still applicable albeit that the floor plan as shown therein differ from the amended floor plans as required under the TCPA application

CLIENT:	Mr and Mrs Sinclair - 35 Havant Road Emsworth Hampshire PO10 7JD	DESCRIPTION:	Section Through Extensions and Notes thereto
PROJECT:	Proposed Single Storey Extension and Alterations to a Listed Building	SCALE:	1:50
DATE:	November 2012 (Revision 'A' Amended to meet TCPA requirements)	REVISION:	Revision 'A' 18.01.2013

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