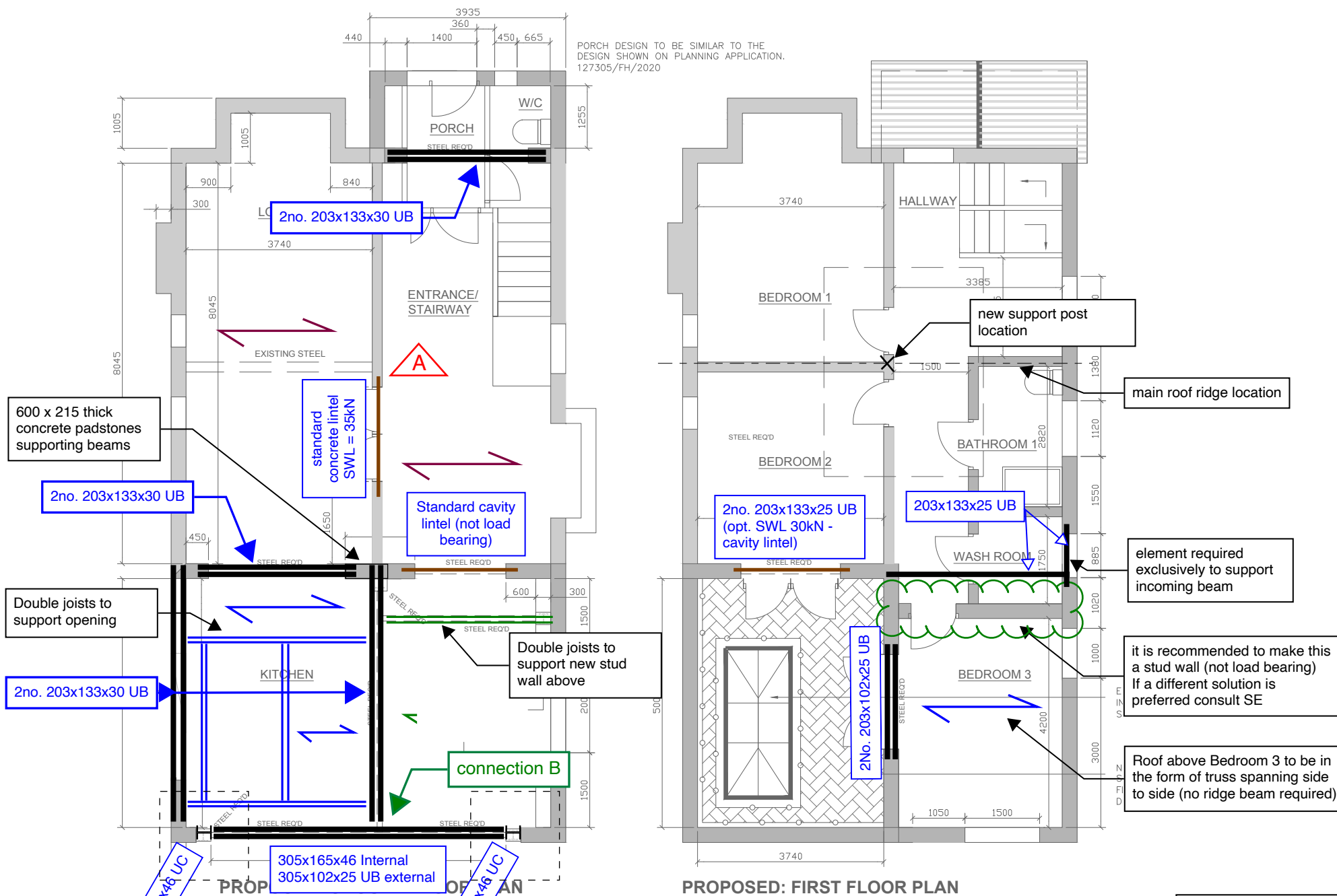
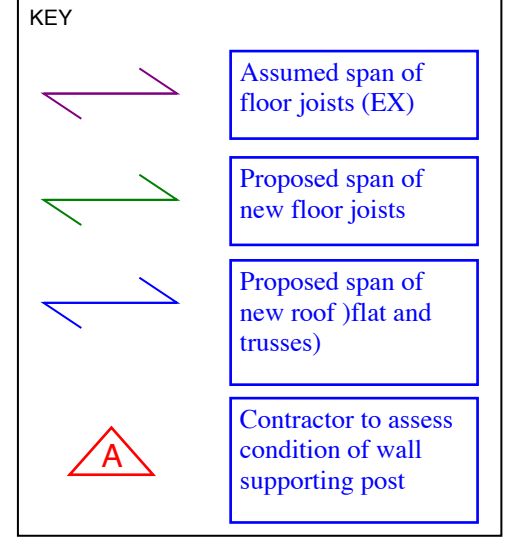




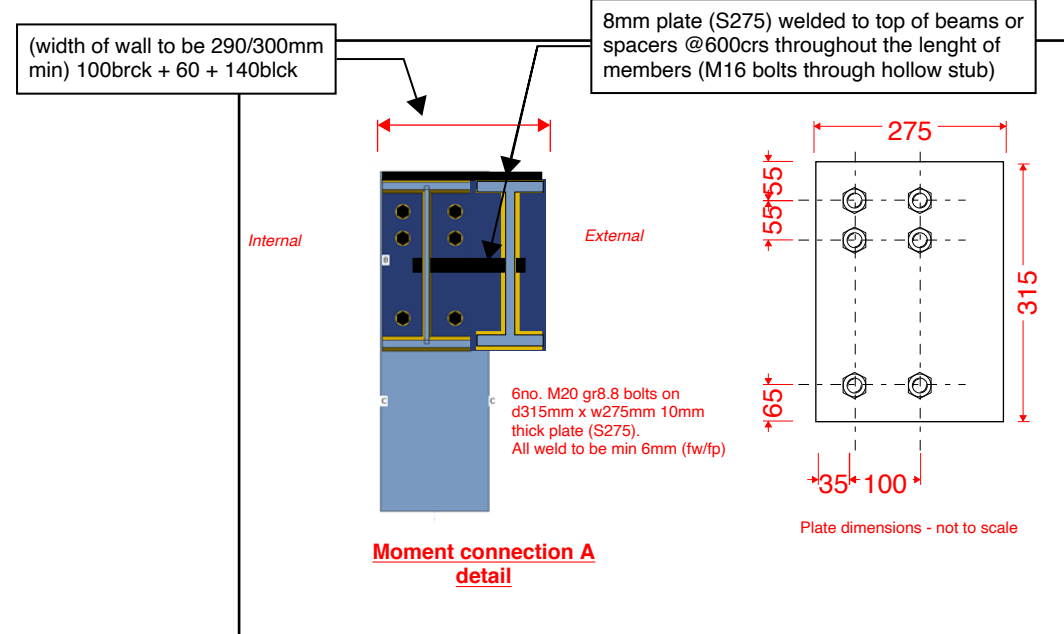
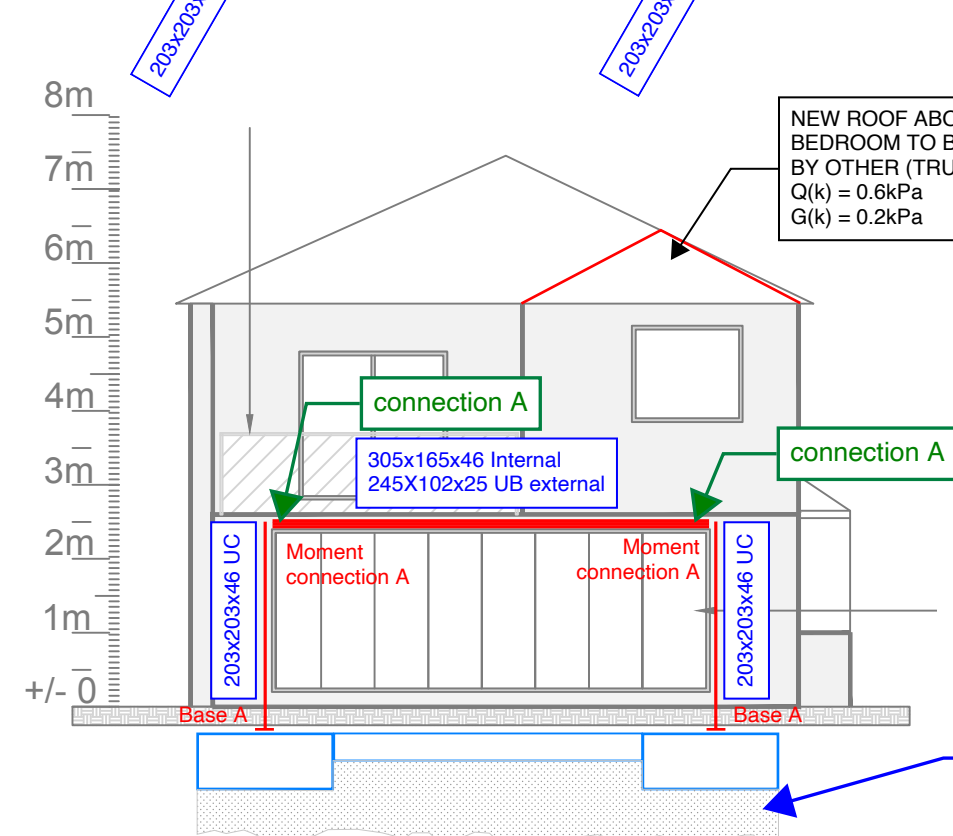
***NOTE**
All elements not described on this drawing but part of the structural system are designed by others including:

- timber joists (to match existing)
- masonry panels (standard cavity brick + block)
- joist hangers and fixings
- connections and baseplate (loading provided)
- foundations for masonry
- fire protection
- roof/roof trusses

- NOTES**
1. refer to SK 003 for construction notes;
 2. all new masonry walls to be toothed-in to existing or fixed using wall starter kits or similar;
 3. all new masonry wall to be reinforced with 3mm wires reinforcement at 225 spacing vertically;
 4. all new steel element to be supported on 440mm long * 215mm deep concrete padstone;



NOTE: all new timber joists to match existing or min 195d x 44w @ 400mm crs. - JHM200/44 joist hanger by Strongtie or sym. of equivalent capacity.



Base A
Permanent = 60kN
Imposed = 35kN

Connection A
Permanent = 35kN
Imposed = 15kN
Moment = 27kNm

Connection B
Permanent = 35kN
Imposed = 15kN

Ground and first floor general arrangement

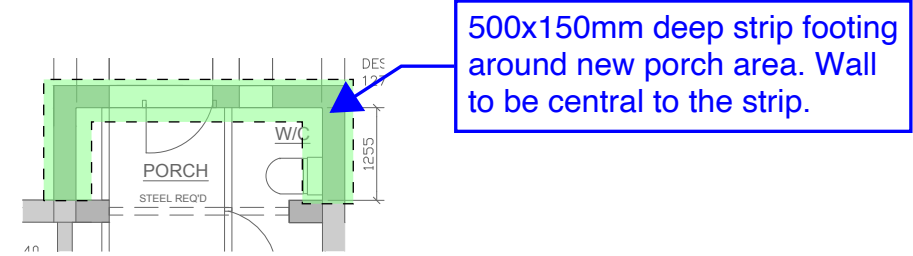
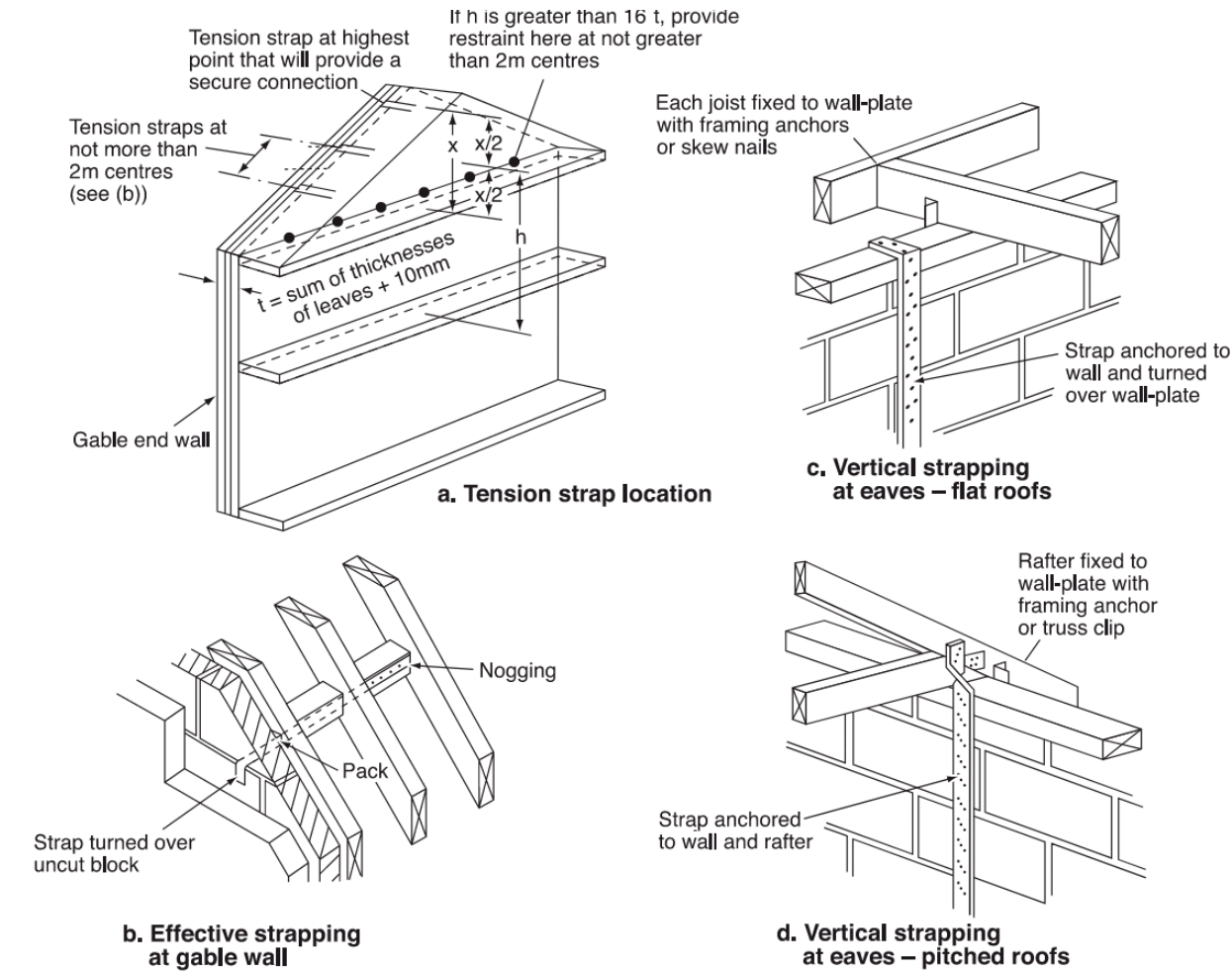
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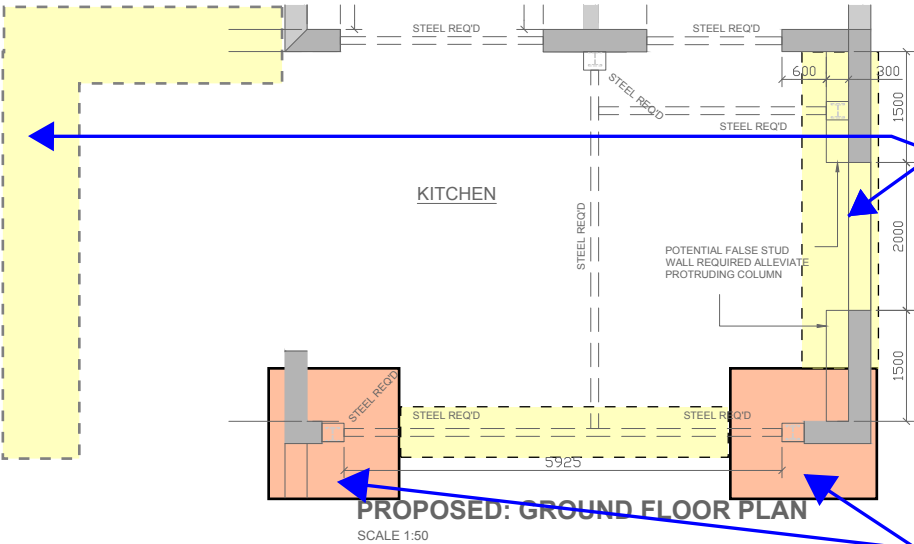
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BUSINESS GROUP

Roof details (extract from Building Approved Doc A)



Front porch - Foundation GAs

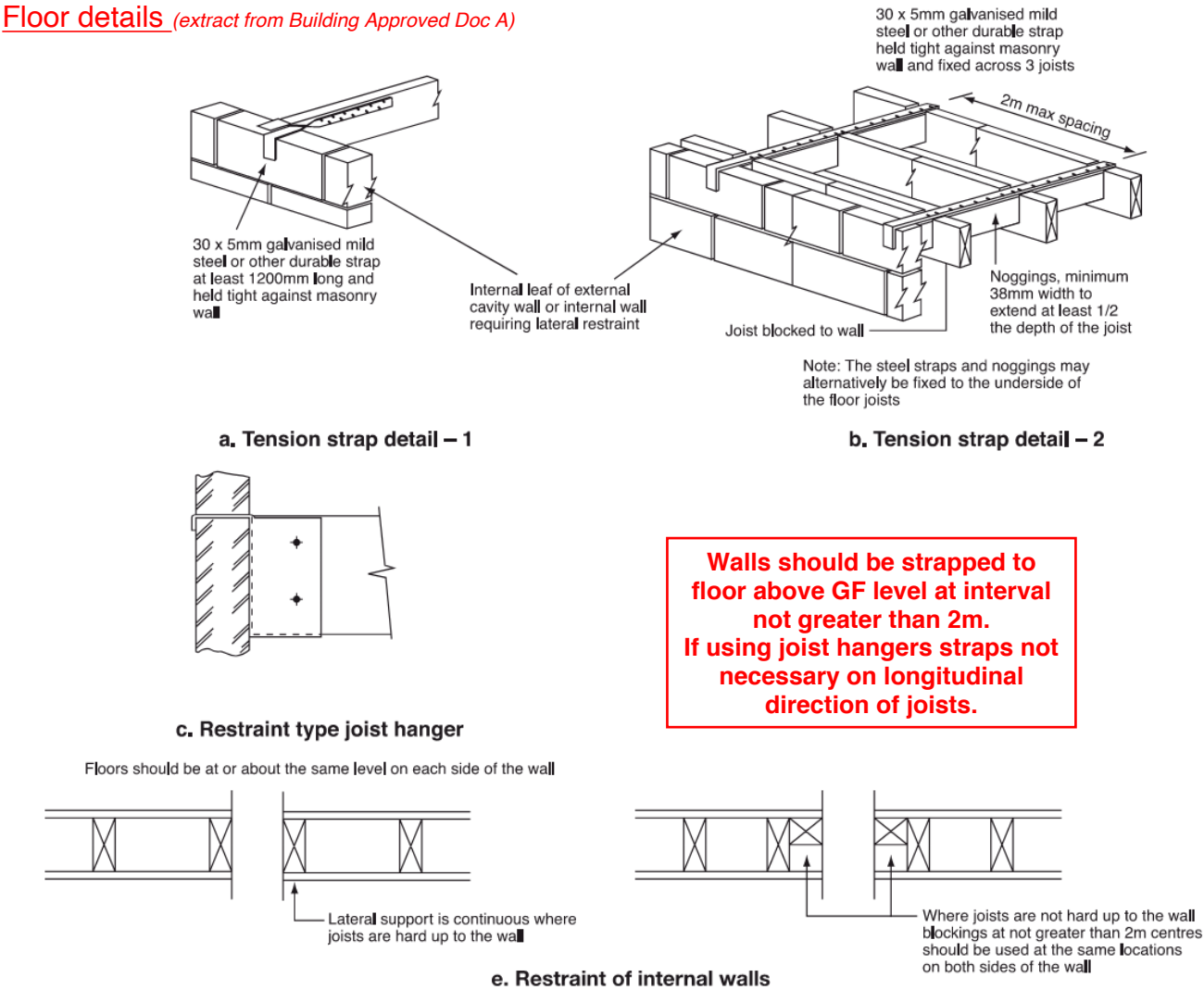


Rear extension - Foundation GAs

1000x400mm deep strip footing around extension and the rear. Wall to be central to the strip.

min 1800x1800x750mm deep unreinforced concrete to be cast together with the strip footing. Increase area as required to suit strip footing extents

Floor details (extract from Building Approved Doc A)



Walls should be strapped to floor above GF level at interval not greater than 2m. If using joist hangers straps not necessary on longitudinal direction of joists.

Foundations and details

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GENERAL CONSTRUCTION NOTES:

ALL SETTING OUT, LEVELS & GENERAL BUILDERS DETAILS TO BE CONFIRMED BY OTHERS.

ALL DRAINAGE, INSULATION, TANKING (WATERPROOFING) & SERVICE DUCT DETAILS TO BE CONFIRMED BY OTHERS.

ALL STEELWORK BELOW STRUCTURAL SLAB LEVEL (SSL) TO BE ENCASED IN MIN. 75mm THICK C28/35 CONCRETE, UNLESS NOTED OTHERWISE.

IN THE ABSENCE OF SITE INFORMATION, ALL FOUNDATIONS WILL BE DESIGNED ASSUMING A MINIMUM SAFE GROUND BEARING CAPACITY (SGBC) OF 50kN/m². GROUND CONDITIONS TO BE CONFIRMED BY TRIAL PITTING PRIOR TO CONSTRUCTING FOUNDATIONS. USE C16/20 MASS CONCRETE FILL TO ACHIEVE REQUIRED BEARING LEVELS (IF REQUIRED).

ALL FOUNDATIONS TO BE STEPPED IN ACCORDANCE WITH DIAGRAM 21 OF APPROVED DOCUMENT BUILDING REGULATIONS 2010.

IN GRANULAR SOILS THERE IS TO BE A MINIMUM DEPTH TO THE UNDERSIDE OF FOOTINGS OF 550mm FROM EXTERNAL GROUND LEVEL. IN COHESIVE SOILS THIS IS TO BE INCREASED TO 750mm. WHERE TREES ARE CLOSE TO FOUNDATIONS, THE DEPTH OF THE FOUNDATION SHALL BE SET IN ACCORDANCE WITH THE DIRECTIONS GIVEN IN THE NHBC STANDARDS.

BLINDING, MASS CONCRETE TRENCH FILL & MASS CONCRETE FOUNDATIONS TO BE C16/20 (GEN 3, MIN 175kg/m³).

CONCRETE SLABS TO BE C28/35 (MIN 300kg/m³). REINFORCED CONCRETE FOUNDATIONS TO BE C28/35 (RC35, MIN 300kg/m³, MAX FREE WATER/CEMENT RATIO 0.60), ALL UNLESS NOTED OTHERWISE.

ALL STEEL BEAMS TO BE SUPPORTED ON MINIMUM 440x100x215mm DEEP MASS CONCRETE PADSTONES, UNLESS NOTED OTHERWISE. RAGBOLTS TO BE USED TO BOLT BOTTOM FLANGES TO CONCRETE WHERE SPECIFIED.

ALL INTERNAL LINTELS (SUPPORTING 100mm THICK LOAD BEARING BLOCK PARTITIONS) TO BE 100x140mm DEEP R15A PRESTRESSED CONCRETE (BY STRESSLINE, TEL. 0870 7503167, OR SIMILAR APPROVED), UNLESS NOTED OTHERWISE.

ALL EXTERNAL CAVITY WALL LINTELS TO BE STANDARD L1/S (BY IG, TEL. 01633 486460, OR SIMILAR APPROVED), UNLESS NOTED OTHERWISE.

MIN 100mm END BEARINGS FOR STEEL AND TIMBER BEAMS, UNLESS OTHERWISE NOTED.

MIN. 150mm END BEARINGS FOR CAVITY (IG AND CATNIC) AND PRESTRESSED CONCRETE LINTELS, UNLESS NOTED OTHERWISE.

INTERNAL STEELWORK PAINT PROTECTION SYSTEM FOR HEATED BUILDING TO BE AS FOLLOWS, UNLESS NOTED OTHERWISE.

STEELWORK TO BE BLAST CLEANED TO ISO SA. 2 ½ AFTER FABRICATION AND RECEIVE MINIMUM DFT OF 80 MICRONS OF A SUITABLE EPOXY ZINC PHOSPHATE PRIMER (E.G. INTERGARD 251, BY CROMADEX, TEL. 0161 848 7056). FINAL FINISH TO BE CONFIRMED BY ARCHITECT. ALL TO BS5493 U.N.O. ON DRAWINGS.

STEELWORK IN CAVITIES SHALL RECEIVE ADDITIONAL COAT OF BITUMEN PAINT (E.G. INTERTUF 16 BITUMEN, BY CROMADEX, TEL. 0161 848 7056).

EXTERNAL STEELWORK (INCLUDING STEELWORK WITHIN 25mm OF EXTERNAL LEAF) TO BE GALVANISED, UNLESS NOTED OTHERWISE. STEELWORK TO BE BLAST CLEANED TO ISO SA. 2½ WITH G24 ANGULAR IRON GRIT AFTER FABRICATION, AND GALVANISED IN ACCORDANCE WITH BS EN 1461 & BS EN 14713. STEEL MEMBERS WITH PLATE THICKNESS LESS THAN 6mm TO HAVE 100 MICRONS & STEEL MEMBERS WITH PLATE THICKNESS GREATER THAN 6mm TO HAVE 140 MICRONS.

ALL STEELWORK TO BE LINED, LEVELLED & GROUTED PRIOR TO CONSTRUCTING ADJACENT WALL PANELS, CLADDING ETC.

STEEL TO BE EXECUTION CLASS EXC2, IN ACCORDANCE WITH BS EN 1090-2. ALL STEELWORK TO BE GRADE S355JR, UNLESS NOTED OTHERWISE

ALL LOAD BEARING BLOCKWORK MASONRY TO BE MIN. 7N/mm², WITH MORTAR DESIGNATION III, UNLESS NOTED OTHERWISE.

ALL FIRE PROTECTION TO NEW STRUCTURE TO BE SPECIFIED BY OTHERS.

ALL SUSPENDED FLOORS AND ROOFS TO BE STRAPPED TO EXTERNAL WALL PANELS IN ACCORDANCE WITH THE CURRENT BUILDING REGULATIONS & BRITISH STANDARDS.

ALL TIMBER TO TIMBER CONNECTIONS TO BE FORMED USING SUITABLE STEEL BRACKETS, CLIPS, HANGERS ETC., INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS (BY SIMPSON STRONG-TIE, TEL. 01827255600, OR SIMILAR APPROVED), UNLESS NOTED OTHERWISE

GROUT UNDER BASEPLATES & STEEL BEAMS TO BE FLOWSET 690 (BY EVERBUILD, TEL. 0113 2402424, OR SIMILAR APPROVED).

ALL STEEL TO STEEL CONNECTIONS TO CONTAIN MIN. 10mm THICK MS PLATES WITH MIN. 2/M20 (gr8.8) BOLTS. ALL WELDS TO BE 6mm CONTINUOUS FILLET WELDS, UNLESS NOTED OTHERWISE.

ALL SUSPENDED FLOORS AND ROOFS TO BE STRAPPED TO EXTERNAL WALL PANELS IN ACCORDANCE WITH THE CURRENT BUILDING REGULATIONS & BRITISH STANDARDS.

ALL TIMBER TO TIMBER CONNECTIONS TO BE FORMED USING SUITABLE STEEL BRACKETS, CLIPS, HANGERS ETC., INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS (BY SIMPSON STRONG-TIE, TEL. 01827255600, OR SIMILAR APPROVED), UNLESS NOTED OTHERWISE

General notes

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