



GROUND FLOOR PLAN

FIRST FLOOR PLAN

GARAGE
 R3 MIN 200x47 C24 ROOF R rafters at 400mm centres given 100mm bearing. Fix over ridge beam via a 50mm deep timber wall plate secured to top flange using M8 bolts at 400mm centres double up either side of roof lights.
 R4 rafters strapped to parallel cavity walls using bat straps fixed to wall and across 3 joists with noggin between at 1000mm centres at positions noted in the drawing.

RB4 305x102 UB 28kg/m grade S355 steel ridge beam given 100mm bearing each end and sat on 350x100x150mm deep padstones. Strap down wall using 1200mm long bat straps.

J2 MIN 200x47 C24 joists at 400mm centres with noggin at 1/4 and 3/4 span set into external cavity wall to give 100mm bearing. Fix into side of B9, B10 and B11 using joist hangers fixed to C16 timber blocking fitted tight between flanges and bolted through web using M8 bolts at 400cc. Double up joists beneath stud walls. Joists strapped to parallel cavity walls using bat straps fixed to wall and across 3 joists with noggin between at 1000mm centres at positions noted in the drawing.

B10 203x102 UB 23kg/m grade S355 steel beam in joist depth given 100mm bearing at cavity wall and sat on 300x215x150mm deep padstone. Fixed into side of B10 via a 10mm thick end plate and 4 No M20 bolts. Joists fixed into side of B9 using joist hangers fixed to C16 timber blocking fitted tight between flanges and bolted through web using M8 bolts at 400cc.

B12 203x133 UB 30kg/m grade S355 steel beam to inner leaf given 150mm bearing at each end and sat on 350x100x150mm deep padstones. Joists fixed into side of B10 using joist hangers fixed to C16 timber blocking fitted tight between flanges and bolted through web using M8 bolts at 400cc.
 B10 203x102 UB 23kg/m grade S355 steel beam to inner leaf given 150mm bearing at each end and sat on 300x100x150mm deep padstones. Beam galvanised.
 B12 200x100x12 unequal angle to outer slate given 150mm bearing at each end. Angle galvanised.
 Beams fixed together via M10 threaded bar fixed through web at 450mm centres c/v 139.7x3.2 chs spacer tubes.

L9 CATNIC CH LINTEL WITH 150mm bearing at each end. Must have 215mm block height each side of catnic lintel beneath wall plate or joist level. 100mm thick inner leaf.

L10 2No 215x100 R24 IBSTOCK SUPREME PRESTRESSED CONCRETE LINTEL WITH 150mm bearing at each end. Catnic and to outer slate face given 150mm bearing at each end.

L10 CAVITY WALLS - USE MEDIUM DENSE 7.3N/mm² CONCRETE BLOCK INNER LEAF. USE DENSE 7.3N/mm² CONCRETE BLOCK FOR OUTER LEAF. 100mm thick outer leaf, 150mm wide cavity, 100mm thick inner leaf.
 M4 MORTAR (1:4:6), MASONRY CEMENT, SAND MIX MUST BE USED FOR ALL WALLS.
 ALL STEELWORK TO BE SHOT BLAST AND PRIMED UNO AND TO BE BOARDED IN FIRE BOARD. ALL STEELWORK TO BE FABRICATED TO EXECUTION CLASS 2. ALL STEEL IN CAVITY AND BELOW DPC TO BE GIVEN 2 COATS OF HIGH BUILD BITUMEN PAINT UNLESS NOTED AS GALVANISED.
 DIMENSIONS TO BE CONFIRMED ON SITE AND NOT SCALED OFF THIS DRAWING.

NO	REVISION	DATE	DESCRIPTION	BY	CR
1			STRUCTURAL SKETCH		

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WALKER

NEW BUILD, SCURGILL THORNHILL

STRUCTURAL SKETCH SHEET 3 of 4

Scale: 1:100
 Date: 11/11/2024

Drawn By: []
 Checked: []
 Approved: []

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