

SPECIFICATION

SP.371/1(01.07.14)

1.0 FOUNDATIONS

- 1.1 Trial holes are to be dug to expose existing foundations, to ascertain their suitability to receive loadings reflected by the new works.
- 1.2 Foundations to comply with BS 8004:1986 Code of Practice
- 1.3 All foundations to be carried to minimum depth of 1200mm. below ground level, or in respect to nearby trees, to depth required by the Local Authority. Foundations are also to be taken below the invert level of adjacent drains.
- 1.4 Concrete mix for all foundation work to be 1: 2: 4
- 1.5 External wall foundations to be 500mm. wide concrete trenchfill.
- 1.6 Existing walls receiving loads from new Steel Beam...B, to be underpinned and new 500mm. wide concrete foundations laid to 1000mm. below ground level.
- 1.7 25mm. thick grade SD expanded polystyrene sheet to be placed between the abutment of new and existing foundations.
- 1.8 Walls below ground level to be constructed in 300mm. class-A dense concrete blocks laid in mortar (1:3:5 masonry: cement: sand)
- 1.9 Drains passing through or under load bearing walls to have R.C lintols built into the wall over. Minimum cover over drain to be 50mm. clear. Any existing drains to have openings built into new walls over, measuring 600mm. on each side of drain. Openings masked with polythene sheet material to prevent the entry of vermin.

2.0 EXTERNAL CAVITY WALL CONSTRUCTION

- 2.1 New cavity walls to be fully filled cavity construction. U-value 0.28 W/sq.m.K
- 2.2 External leaf of cavity wall to be 100mm. facing brickwork to match existing. No use of common/fletton brickwork in wall areas to be painted (BRE 1P22/79)
- 2.3 The wall cavity is to be filled with 100mm. Crown Dritherm 32 cavity insulation batts. Cavity battens to be used at all times during construction.
- 2.4 The cavity is to be closed at the head of the wall.
- 2.5 At ground level, the cavity is to be filled with lean mix concrete from foundation up to 225mm. below the damp proof course.
- 2.6 Weepholes are to be left at 900mm. centres in the perpendicular joints of the brick course immediately below the DPC and above all external wall openings.

SP.371/2(01.07.14)

- 2.7 The internal leaf of the wall to be 100mm. Celcon Standard insulating blockwork laid in mortar (1:6 cement, sand and plasticizer). The leaf is to be finished on the inside face with 13mm. pre-mix gypsum bound lightweight aggregate undercoat plaster with a neat gypsum skimcoat finish.
- 2.8 Cavity wall ties, stainless steel triangular type conforming to BS EN 845-1:2003
- 2.9 The cavity ties to be embedded to a minimum depth of 50mm. into each leaf. Ties are to be positioned at maximum spacing of 750mm. horizontally and staggered vertically at 450mm. centres. Density 2.5 ties/sq.m. Ties at door and window openings to be positioned within 225mm. of the vertical edge at 300mm. centres.
- 2.10 D.P.C. is to be 100mm. wide Marley Aquagard 1.25mm. Pitch Polymer laid on a mortar bed with minimum 100mm. laps sealed with Marley Solvent Weld adhesive. New D.P.C. is to lap and be sealed to existing damp proof course. The horizontal damp proof course is to be positioned 150mm. above ground level.
- 2.11 Damp proof courses are to be provided around the perimeter of openings in the external walls.
- 2.12 Movement joints in accordance with BS 5628: part 3:2005 should be left in Standard blockwork, 3000mm. from any corner.
- 2.13 External walls running parallel to rafters, ceiling and floor joists to be restrained at 1800mm. centres with screw fixed 5x30x100mm. galvanised mild steel restraining straps, running back over three members.
- 2.14 Catnic stainless steel extension wall plates to be used at junction between new and existing work. Window and door openings to be fitted with DACATIE (or similar) insulated cavity closers
- 2.15 The recess, housing gas fire feature, to be closed with 50x100mm. studwork at 600mm. cc. with staggered noggins finished with 12.5mm. Duplex plasterboard and skimcoat.

4.0 STEELWORK AND CATNIC LINTOLS

- 4.1 Catnic lintols to be built in with 150mm. bearings
- 4.2 Voids in Catnic Lintols to be filled with mineral fibre quilt
- 4.2 Twin steel beams to be connected together with 19mm. diameter HT bolts and tube spacers positioned in the centre of the web at 1000mm. centres
- 4.3 Steel beams to be encased in two layers of 12.5mm. plasterboard, bound with 1.5mm. binding wire at 100mm. pitch, bonded with gypsum.