F10 BRICK/ BLOCK WALLING

To be read with Preliminaries/ General conditions.

F10/36 CONCRETE COMMON BLOCKWORK

- Blocks: To BS EN 771-3.

- Location: Blocking up 2no. existing door openings as shown on drawings, new foundation wall to ramp as shown on Structural Engineers / Architects drawings,

- Manufacturer: Forticrete or similar approved .

Product reference: TBC.

- Configuration: Refer to drawings. Stretcher bond generally, laid flat where noted on Structural Engineers drawings.

- Compressive strength: 7.3N/mm2 Generally. (Refer to Structural Engineers specification and drawings).

Category: Refer to manufacturers information

- Freeze/ thaw resistance: as recommended by manufacturer .

- Thermal properties: Not applicable

- Recycled content: TBC by manufacturer.

- Work sizes (length x width x height): 440mm x 100mm x 215mm, 440mm x 140mm x 215mm (refer to Structural Engineers drawings and specification)..

Tolerance category: 0-600mm = +/- 2mm, 601-1000mm = +/- 3mm, 1001-2500mm= +/- 4mm, above 2500mm in length a max tolerance of 5mm .

- Special shapes: Not Applicable.

- Additional requirements: Refer to Structural Engineers drawings and specifications for all wall ties/ties.

- Mortar: As section Z21.

- Standard: Class iii mortar as noted by Structural Engineer

- Mix: Cement : Sand Pre-mix. Pointing to be recessed from block face to receive render finish

- Bond: Half lap generally unless noted otherwise.

- Joints: 10mm max width

F10/51 BASIC WORKMANSHIP

- Bond where not specified: Half lap stretcher.

- Mortar joints: Fill all vertical joints. Lay blocks on a full bed.

- Quoins and advance work: Rake back.

- Locations for equal levelling of cavity wall leaves:

- Every course containing vertical twist type ties or other rigid ties.

- Every third tie course for double triangle/ butterfly ties.

- Courses in which lintels are to be bedded.

- Lift height (maximum) for walling using cement gauged or hydraulic lime mortar: 1.2 m above any other part of work at any time.

- Daily lift height (maximum) for walling using cement gauged or hydraulic lime mortar: 1.5 m for any one leaf.

- Lift height (maximum) for walling using thin joint mortar glue: 1.3 m above any other part of work at any time.

F10/55 FACEWORK

- Commencement of facework: Not less than 150 mm below finished level of adjoining ground or external works level.

- Brick/ block selection: Do not use units with damaged faces or arrises.

- Cut masonry units: Where cut faces or edges are exposed cut with table masonry saw.

- Coursing brickwork and concrete blockwork: Evenly spaced using gauge rods. To produce satisfactory junctions and joints with built-in elements and components.

F10/60 ALTERATIONS/ EXTENSIONS

- Coursing: Line up with existing work.

- Block bonding new walls to existing: Unless agreed otherwise cut pocket requirements as follows:

- Width: Full thickness of new wall.

- Depth (minimum): 100 mm.

- Vertical spacing: As follows:

Brick to brick: 4 courses high at 8 course centres.

Block to block: Every other course.

- Pocket joints: Fully filled with mortar.

- New and existing facework in the same plane: Bonded together at every course to achieve continuity of bond and coursing.

- Support of existing work: Fully consolidate joint above inserted lintel or masonry with semidry mortar to support existing structure.

F10/66 FIRE STOPPING

- Avoidance of fire and smoke penetration: Fit tightly between cavity barriers and masonry. Leave no gaps.

F10/95 REPOINTING IN DRESSED / FREESTONE WALLING

- Preparation: Cut out joints to form a rectangular recess of 15-20 mm depth. Clean and dampen joints sufficiently to control suction.

- Joint profile: To match existing original pointing.

- Mortar: As section Z21.

- Standard: .

- Mix: 1:4 (Lime : Sand) – Lime to be NHL3.5 (or possibly NHL 2 – to be discussed with Phil Brown), sand obtained from Cornish Lime Company Ltd. Contact Phil Brown 01208 79779.

100 DRESSED STONE ‘PLASTIC’ REPAIRS

- Preparation: Carry out any necessary poulticing where any stone has discoloured as required (see below) prior to applying mortar repairs.

- Profile: To match existing stone sections / section lines.

- Mortar: Pre-mix obtained from WR Bedfords (Bristol) containing NHL 2 & Stone Dust to match existing As section Z21.

110 STONEWORK CLEANING – For any areas of stone subject to discolouration

- Method: Poulticing method as advised by Restorative Techniques Ltd. Application of Ammonia Carbonate clay overlayed with cling film to extract impurities within the stone. Extent TBC on site once scaffolding is erected

F30 ACCESSORIES/ SUNDRY ITEMS FOR BRICK/ BLOCK STONE WALLING

~~F30/05 CAVITIES~~

~~- Concrete fill to base of cavity.~~

~~- Concrete generally: To BS EN 206-1 and BS 8500-2.~~

~~- Designated concrete: GEN1 or Standard mix ST2 with high workability.~~

~~- Extent: Maintain 75 mm between top of fill and external ground level and a minimum of 225 mm between top of fill and ground level dpc.~~

~~- Cleanliness: Keep cavity faces, ties and dpcs free from mortar and debris.~~

F30/07 PERPEND JOINT WEEP HOLES

- Form: Open clear perpend joint.

- Locations: Through blockwork to ramp wall

- Provision: At not greater than 1000 mm centres and not less than two over openings.

F30/15 AIR BRICKS / VENTS IN EXTERNAL WALLING / CHIMNEYS

- Standard: To BS 493, class 1.

- Manufacturer: Condition of cast Iron grilles to be assessed on site once scaffolding is erected

- Product reference: Not Applicable

- Apertures: Existing vents in chimneys to be restored and cleared from debris/blockages to maintain ventilation. Condition to be assessed on site once scaffolding is erected

- ~~Work sizes:~~

- ~~Material/ Colour: \_\_\_\_\_\_ .~~

- ~~Placement: Built in with no gaps at joints.~~

F30/83 PRECAST CONCRETE LINTELS

- Standard: To BS EN 845-2.

- Manufacturer: As required by Contractor .

- Product reference: Refer to Structural Engineers specification .

- Types: Refer to Structural Engineers specification .

- Sizes: Refer to Structural Engineers specification .

- Placement: Bed on mortar used for adjacent work.

- Bearing length (minimum): Refer to SE details .

F30/