545 LEVELLING OF SEPARATE LEAVES USING CEMENT GAUGED OR HYDRAULIC LIME MORTAR

- Locations for equal levelling of cavity wall leaves: As follows:
  - 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.

560 COURSING BRICKWORK

- Gauge: Four brick courses including bed joints to 300 mm.

610 SUPPORT OF EXISTING WORK

- Joint above inserted lintel or masonry: Fully consolidated with semidry mortar to support existing structure.

635 JOINTING

- Profile: Consistent in appearance.

665 POINTING TO ALL BRICK WALLS

- Joint preparation: Remove debris. Dampen surface.
- Mortar: As section Z21.
  - Standard: To BS EN 998-2.
  - Mix: To match architects specification.
  - Additional requirements: Refer to architects specification .
- Profile: To match architects specification.

690 ADVERSE WEATHER

- General: Do not use frozen materials or lay on frozen surfaces.
- Air temperature requirements: Do not lay bricks/ blocks:
  - In cement gauged mortars when at or below 3°C and falling or unless it is at least 1°C and rising.
  - In hydraulic lime:sand mortars when at or below 5°C and falling or below 3°C and rising.
  - In thin joint mortar glue when outside the limits set by the mortar manufacturer.
- Temperature of walling during curing: Above freezing until hardened.
- Newly erected walling: Protect at all times from:
  - Rain and snow.
  - Drying out too rapidly in hot conditions and in drying winds.

ADDITIONAL REQUIREMENTS FOR FACEWORK

710 THE TERM FACEWORK

- Definition: Applicable in this specification to all brick/ block walling finished fair.
  - Painted facework: The only requirement to be waived is that relating to colour.

750 COLOUR CONSISTENCY OF MASONRY UNITS

- Colour range: Submit proposals of methods taken to ensure that units are of consistent and even appearance within deliveries.
- Conformity: Check each delivery for consistency of appearance with previous deliveries and with approved reference panels; do not use if variation is excessive.
- Finished work: Free from patches, horizontal stripes and racking back marks.

760 APPEARANCE

- 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.
- Quality control: Lay masonry units to match relevant reference panels.
  - Setting out: To produce satisfactory junctions and joints with built-in elements and components.
  - Coursing: Evenly spaced using gauge rods.
- Lifts: Complete in one operation.
- Methods of protecting facework: Submit proposals.

780 GROUND LEVEL

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

830 CLEANLINESS

- Facework: Keep clean.
- Mortar on facework: Allow to dry before removing with stiff bristled brush.
- Removal of marks and stains: Rubbing not permitted.

F31
Precast concrete sills/lintels/copings/features

F31 Precast concrete sills/lintels/copings/features

6 DESIGNATED CONCRETE PRECAST TERRAZZO SEAT TOPS ADJACENT TO WATER FEATURE

- Concrete: Designated to BS 8500-2: 75mm Thick, bull knowed Terrazzo seating units formed from PCC concrete units including:
  - Black liquid colouring;
  - Microfibers allowed
  - min 65% mixed grey and white granite chippings 6-12 mm in diameter;
  Polished Concrete .
- Finish to visible faces: Polished .
- Other requirements: Dowel fitting and drip lines as per drawings - final drawings to be provided by contractor for approval .

11 CONCEALED PRECAST CONCRETE RING MILTON RING TO WATER FEATURE
Manufacturer: Milton Precast or similar as approved
Milton Pipes Limited, Milton Regis, Sittingbourne, Kent. ME10 2QF
Tel: (01795) 425191
Fax: (01795) 420360
E-Mail: sales@miltonprecast.com
Size: 2680mm dia, wall thickness approx 140mm. Support tree 2700mm tree grill support and tree grill with 8mm return on the edge.

20 MOULDS

- Permissible fabrication and operating tolerances: Length 0 to +6 mm, other dimensions ±3 mm.

25 REINFORCEMENT

- Carbon steel reinforcement: As appropriate to BS 4449, BS 4482 and BS 4483.
  - Cutting and bending: To BS 8666.
- Fixing: Accurate and secure.
  - Method: Wire tying, approved steel clips or tack welding if permitted.
  - Concrete cover: Maintain free of tying wire or clips.
  - Cover spacers on visible faces: Not permitted.

30 CASTING AND CURING

- Placement of concrete: Thoroughly compact.
- Immature components: Avoid movement, vibration, overloading, physical shock, rapid cooling and thermal shock.
- Protection from weather: Do not expose panels to direct sunlight and drying winds until at least five days after casting.

40 LAYING

- Mortar for bedding and jointing: As section Z21.
  - Type: Site batched and mixed.
  - Mix: As used for adjacent work.
- Bedding components: On full bed of mortar.
- Bedding one piece sills/ thresholds: Leave clear of mortar except at end bearings and beneath masonry mullions.
  - On completion: Point with mortar to match adjacent work.

G

Structural/Carcassing metal/timber

G12
Isolated structural metal members

G12 Isolated structural metal members

To be read with Preliminaries/ General conditions.

PRODUCTS

321 CORTEN TO WATER FEATURE SEAT
- Corten: 3mm Rolled Corten fascia plates.
  - Fixing: As per drawing: 1418-027 & 091.
  - Surface condition: Free from heavy pitting, burrs, sharp edges and flame cutting dross.

322 CORTEN TO EASTERN COURTYARD RETAINING WALL SEAT
- Corten: 5mm Rolled Corten fascia plates.
  - Fixing: As per drawing 1418-091.
  - Surface condition: Free from heavy pitting, burrs, sharp edges and flame cutting dross.

323 CORTEN TO WESTERN COURTYARD RETAINING WALL AND CORTEN STEP DETAIL
Corten: 5mm Rolled Corten fascia plates.
- Drawing: 1418-077 & 062
- Fixing: Fixed to concrete blockwork with Corten machine head CSK Chem Set bolts at 300mm ctrs.
- Surface condition: Free from heavy pitting, burrs, sharp edges and flame cutting dross.

FABRICATION

510 FABRICATION OF STEEL MEMBERS
- Cuts and holes: Accurate and neat.
- Welding: Metal arc method to BS EN 1011-2.
  - Welded joints: Fully fused, with mechanical properties not less than those of the parent metal.
  - Site welding: Not permitted.
- Joints: Location and layout of fastenings as drawing 1418-091.

EXECUTION

610 INSTALLATION
- Accuracy: Members positioned true to line and level using, if necessary, steel packs of sufficient area to allow full transfer of loads to bearing surfaces.
- Fixing: Use washers under bolt heads and nuts.
  - Tapered washers: Provide under bolt heads and nuts bearing on sloping surfaces. Match taper to slope angle and align correctly.

G20
Carpentry/ timber framing/ first fixing

G20 Carpentry/ timber framing/ first fixing

To be read with Preliminaries/ General conditions.

GENERAL

105 TIMBER PROCUREMENT
- Timber (including timber for wood based products): Obtained from well managed forests/ plantations in accordance with:
  - The laws governing forest management in the producer country or countries.
  - International agreements such as the Convention on International Trade in Endangered Species of wild fauna and flora (CITES).
- Documentation: Provide either:
  - Documentary evidence (which has been or can be independently verified) regarding the provenance of all timber supplied, or
  - Evidence that suppliers have adopted and are implementing a formal environmental purchasing policy for timber and wood based products.

150 STRENGTH GRADING OF TIMBER
- Grader: A company currently registered under a third party quality assurance scheme operated by a certification body approved by the UK Timber Grading Committee.

WORKMANSHIP GENERALLY

401 CROSS SECTION DIMENSIONS OF STRUCTURAL SOFTWOOD AND HARDWOOD
- Dimensions: Dimensions in this specification and shown on drawings are target sizes as defined in BS EN 336.
- Tolerances: The tolerance indicators (T1) and (T2) specify the maximum permitted deviations from target sizes as stated in BS EN 336, clause 4.3:
  - Tolerance class 1 (T1) for sawn surfaces.
  - Tolerance class 2 (T2) for further processed surfaces.

403 CROSS SECTION DIMENSIONS OF NONSTRUCTURAL HARDWOOD
- Dimensions: Dimensions in this specification and shown on drawings are finished sizes.
- Maximum permitted deviations from finished sizes: As stated in BS EN 1313-2:
  - Clause 6 for sawn sections.
  - Clause NA.3 for further processed sections.

420 WARPING OF TIMBER
- Bow, spring, twist and cup: Not greater than the limits set down in BS 4978 or BS EN 14081-1 for softwood, or BS 5756 for hardwood.

430 SELECTION AND USE OF TIMBER
- Timber members damaged, crushed or split beyond the limits permitted by their grading: Do not use.

435 NOTCHES, HOLES AND JOINTS IN TIMBER
- Notches and holes: Position in relation to knots or other defects such that the strength of members will not be reduced.
- Scarf joints, finger joints and splice plates: Do not use without approval.

440 PROCESSING TREATED TIMBER

- Cutting and machining: Carry out as much as possible before treatment.
- Extensively processed timber: Retreat timber sawn lengthways, thickness, planed, ploughed, etc.
- Surfaces exposed by minor cutting/ drilling: Treat with two flood coats of a solution recommended by main treatment solution manufacturer.

450 MOISTURE CONTENT

- Moisture content of wood and wood based products at time of installation: Not more than:
  - Covered in generally unheated spaces: 24%.
  - Covered in generally heated spaces: 20%.
  - Internal in continuously heated spaces: 20%.

510 PROTECTION

- Generally: Keep timber dry and do not overstress, distort or disfigure sections or components during transit, storage, lifting, erection or fixing.
- Timber and components: Store under cover, clear of the ground and with good ventilation. Support on regularly spaced, level bearers on a dry, firm base. Open pile to ensure free movement of air through the stack.
- Trussed rafters: Keep vertical during handling and storage.

550 EXPOSED TIMBER

- Planed structural timber exposed to view in completed work: Prevent damage to and marking of surfaces and arrises.

JOINTING TIMBER

570 JOINTING/FIXING GENERALLY

- Generally: Where not specified precisely, select methods of jointing and fixing and types, sizes and spacings of fasteners in compliance with section Z20.

J

Waterproofing

J30
Liquid applied tanking/ damp proofing

J30 Liquid applied tanking/ damp proofing

10 COLD APPLIED DAMP PROOFING FOR RAISED MASONARY PLANTERS

- Substrate: Brickwork and concrete blockwork.
- Primer: As coating manufacturer's recommendations.
- Coating: Bituminous.
  - Manufacturer: Contractor's choice.
    Product reference: Contractor's choice.
  - Application: x2 coats as manufacturer's recommendations.
- Reinforcement: As coating manufacturer's recommendations.
- Blinding: As coating manufacturer's recommendations.

11 GRP WATER PROOFING FOR TIMBER PLANTERS AND WATER FEATURES

- Substrate: In situ concrete slab as per section E10.
- Primer: As coating manufacturer's recommendations.
- Coating: GRP.
  - Manufacturer: Water feature contractor's choice.
    Product reference: Water feature contractor's choice.
  - Application: x2 coats as coating manufacturer's recommendations.
- Reinforcement: As coating manufacturer's recommendations.
- Blinding: As coating manufacturer's recommendations.

50 WORKMANSHIP

- Substrates generally: Smooth, even textured, clean, dry and frost free.
- Curing period for concrete substrates (minimum): 7 days.
- Moisture content and stability of substrate: Must not impair integrity of finished tanking/ damp proofing.
- Preliminary work: Complete.
- Adjacent surfaces exposed to view in finished work: Protect.
- Primer application: Uniform, continuous coverage.
- Coatings:
  - Apply in dry atmospheric conditions when substrate is dry.
  - Uniform, continuous coverage. Do not allow to pool in hollows.
  - Firmly adhered to substrate and free from imperfections.
  - Prevent damage to finished coating.
- Penetrations: Impervious.
- Final covering: Apply as soon as possible after coating has hardened.

60 JUNCTIONS WITH DPCS

- Dpcs: Clean, all edges fully exposed.
- Application: Fully coat dpc and overlap adjacent surfaces by (minimum) 50 mm .

70 BLINDING

- Coatings: Blind whilst wet .
- Surplus material: Remove when coatings are completely dry.

90 BACKFILLING TO EXTERNAL COATINGS

- Timing: Carry out as soon as possible after tanking and protection are complete.