



# **Kenwood Viewpoint Interpretation**

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# E10 In situ concrete

- 15 SPECIFICATION
  - Concrete generally: To BS 8500-2.
  - Exchange of information: Provide concrete producer with information required by BS 8500-1, clauses 4 and 5.

#### 20 DESIGNATED CONCRETE Foundation Base

- Designation: FND2.
- Fibres: Not required.
- Aggregates:
  - Size (maximum): 20 mm.
  - Coarse recycled aggregates: Not permitted.
  - Additional aggregate requirements: Rounded coarse aggregate.
- · Special requirements for cement/ combinations: None.
- · Consistence class: Contractor's choice.
- Chloride class: Cl 0.40.
- · Admixtures: Concrete producer's choice.
- Additional mix requirements: None.

#### 45 PROPERTIES OF FRESH CONCRETE

- Adjustments to suit construction process: Determine with concrete producer. Maintain conformity to the specification.
- 50 PREMATURE WATER LOSS
  - · Requirement: Prevent water loss from concrete laid on absorbent substrates.
    - Underlay: Polyethylene sheet 250 micrometres thick.
    - Installation: Lap edges 150 mm.
- 60 PLACING AND COMPACTING
  - Surfaces to receive concrete: Clean, with no debris, tying wire clippings, fastenings or free water.
  - Timing: Place as soon as practicable after mixing and while sufficiently plastic for full compaction.
  - Temperature limitations for concrete: 30°C (maximum) and 5°C (minimum). Do not place against frozen or frost covered surfaces.
  - Compaction: Fully compact to full depth to remove entrapped air especially around reinforcement, cast-in accessories, into corners of formwork and at joints. Continue until air bubbles cease to appear on the top surface.
    - Methods of compaction: To suit consistence class and use of concrete.

70 CURING AND PROTECTING

- Evaporation from surfaces of concrete: Prevent throughout curing period.
  - Surfaces covered by formwork: Retain formwork in position and, where necessary to satisfy curing period, cover surfaces immediately after striking.
  - Top surfaces: Cover immediately after placing and compacting. Replace cover immediately after any finishing operations.
- Curing periods:
  - Surfaces which in the finished building will be exposed to the elements, and wearing surfaces of floors and pavements: 10 days (minimum).
  - Other structural concrete surfaces: 5 days (minimum).
- Protection: Protect concrete from shock, indentation and physical damage.

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## E30 Reinforcement for in situ concrete

- 30 FABRIC REINFORCEMENT AS DRAWING
  - Standard: To BS 4483.
  - Strength grade: B500B.
- 40 CONDITION OF REINFORCEMENT
  - At time of placing concrete: Free from corrosive pitting, loose mill scale, loose rust and contaminants which may adversely affect the reinforcement, concrete, or bond between the two.
- 55 LAPS IN REINFORCEMENT
  - Laps in bar reinforcement (minimum): 450.
  - Laps in fabric reinforcement (minimum): 450.
- 70 FIXING REINFORCEMENT
  - Standard: To BS 7973-1 and -2.
  - Installation: Provide adequate support, tie securely and maintain the specified cover.
    Tying wire: 16 gauge black annealed. Prevent intrusion into the concrete cover.