

E30**REINFORCEMENT FOR IN SITU CONCRETE**

To be read with Preliminaries/General conditions.

140

PLAIN BAR REINFORCEMENT:

To BS 4449, Grade 250.

150

DEFORMED BAR REINFORCEMENT:

To BS 4449, Grade 460.

210

FABRIC REINFORCEMENT: To BS 4483.

310

CUT AND BEND reinforcement to schedules and to BS 8666. Do not bend when below 5°C without approval. Steel may be warmed to not more than 100°C. Do not re-bend bars without approval. Tag bundles of reinforcement with labels to BS 8666.

325

CLEANLINESS: At time of placing concrete, reinforcement to be clean and free of corrosive pitting, loose millscale, loose rust, ice, oil and other substances which may adversely affect the reinforcement, concrete, or bond between the two.

410

LAPS OR SPLICES: Obtain instructions if details are not shown on drawings.

420

LAPS in nominal bar reinforcement to be not less than 300 mm.

421

LAPS in fabric reinforcement, where not detailed, to be not less than 250 mm. Where necessary seek instructions to avoid a four layer build-up at corners.

451

FIXING GENERALLY:

- Unless otherwise permitted fix reinforcement in position before placing concrete. In addition to any spacers and chairs shown on drawings or schedules, provide adequate support, tie securely and maintain the specified cover. Comply generally with Concrete Society Report CS 101 'Spacers for reinforced concrete'.

- Unless otherwise specified tie using 16 swg annealed tying wire. Ensure that tying wire does not intrude into the concrete cover. Do not tack weld unless authorised by the CA and recommended by the reinforcement manufacturer.

- Do not fix or place reinforcement in contact with nonferrous metals.

481

GROUND BEARING SLABS: Where these are reinforced with a single layer of fabric in the upper part of the slab, either:

- lay fabric on top of the first compacted layer of concrete, followed by the top layer of concrete, placed within two hours of the first layer, or

- fully support the fabric on suitable proprietary supports/chairs.