# E40 Designed joints in in situ concrete

### To be read with Preliminaries/General conditions.

### 120A CONSTRUCTION/ MOVEMENT JOINTS GENERALLY

Accuracy: Position and form joints accurately, straight, well-aligned and truly vertical or horizontal or parallel with setting out lines of the building.

Concrete structures should be designed by a Structural Engineer to EN 1992 (Formally BS8110 & BS8007). Placed concrete rafts, kickers and foundations should have a surface finish to Class of finish U3 as documented in ‘General Specification for Civil Engineering Works’ section 14: ‘Formwork and Finishes to Concrete’, namely a “Uniform, dense and smooth surface” with float marks of no more than 3mm.

Submit proposals.

### 132A ADDITIONAL REQUIREMENTS FOR CONSTRUCTION JOINTS

* 20 mm x 10 mm waterbar - Minimum of 80 mm

20 mm x 5 mm waterbar - Minimum of 50 mm

20 mm x 2 mm waterbar - Minimum of 50 mm

### 230A PREPARATION OF CONSTRUCTION JOINTS

* Roughening of joint surfaces

The surface of the concrete should be clean, correctly compacted and uniform. Jet wash & hard brush the surface to reveal clean aggregate. The surface must be free of ice.

Condition of joint surfaces immediately before placing fresh concrete: Clean and damp

### 320A HYDROPHILIC WATERSTOPS

* Manufacturer: Newton Waterproofing Systems

(a trading name of John Newton & Co. Ltd.)

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T: +44 (0)1732 360 095

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* + Product reference: Newton 315 Polymer-Waterbar

Location: Horizontal and vertical construction joints,

New to existing concrete, irregular surfaces and puddle flanges around through wall and slab penetrations.

* Method of fixing: A choice of adhesives are available:

• Newton 309-M - Adhesive with very high bond characteristics

To concrete and mortar, the application can be enhanced by the use of masonry nails at approximately 250 mm centres.

Condition of concrete surface at time of fixing: Clean and free from ponded or running water.

* Protection: Prevent wetting of exposed sections of waterstop.

### 530A SEALANT [Newton Newton 309-M]

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