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MODEL CLAUSES FOR CIVIL ENGINEERING WORKS

SECTION 111

TIGHTLY BONDED SYSTEMS FOR UNDERLINE BRIDGES

Strength of surface concrete

111/1

The surface strength of the concrete shall be determined at the following locations...

(111.005)

Note to specifier

Provide details of the maximum number of tests and the areas/locations where the surface strength of the concrete is to be tested.

Sealing of construction and movement joints

111/2

Where construction and movement joints cannot be sealed in accordance with the Application Guidelines, they shall be sealed as follows....

(111.007)

Note to specifier

Provide details of the sealing method to be used, as outlined in the following:

Construction Joints

When a liquid-applied membrane is applied to areas of the deck on site, construction joints shall be sealed using the liquid-applied membrane.

When it is not practicable to seal construction joints with the membrane (even using hand grade materials) they shall be sealed with a sealant compatible with the waterproofing system as recommended by the manufacturer of the system.

Steel deck plate joints

When a liquid-applied membrane is applied to areas of the deck on site, steel deck plate joints shall be sealed using the liquid-applied membrane. If some movement is possible, the joints shall be filled with a flexible filler compatible with the waterproofing system as recommended by the manufacturer of the system. The filler shall be covered with debonding tape, and the joints shall be oversprayed with liquid-applied membrane forming an overlap not less than the minimum overlap specified in the Application Guidelines.

When it is not practicable to seal steel deck plate joints with the membrane (even using hand grade materials) they shall be primed and sealed with a flexible sealant compatible with the waterproofing system as recommended by the manufacturer of the system.

Joints between concrete decks and steel main girders

Where little movement or shrinkage of the concrete is expected, joints between concrete decks and steel main girders shall be sealed by filling the rebate at the deck/main girder interface with a sealant compatible with the waterproofing system as recommended by the manufacturer of the system.

When it is practicable to apply a liquid-applied membrane, the rebate at the deck/main girder interface shall be filled with a flexible filler as recommended by the manufacturer of the