

609-B-311 RCBA SLAB OPTION FOR USE WITH SHORT TERM CLOSURES

(Revised 03-18-21)

The Standard Specifications are revised as follows:

SECTION 609, BEGIN LINE 15, DELETE AS FOLLOWS:

Concrete, Class ~~A~~C702

SECTION 609, AFTER LINE 22, INSERT AS FOLLOWS:

The cement content used in the Class C concrete for the RCBAs may be increased to 752 lbs/cu yd.

SECTION 609, BEGIN LINE 88, DELETE AND INSERT AS FOLLOWS:

609.10 Curing and Sealing

~~RCBA shall be wet cured in accordance with 702 or shall have liquid membrane forming curing compound applied to exposed surfaces within 30 minutes after the finishing operations have been completed, as specified below.~~ The edges of the RCBA shall be cured immediately upon removal of the forms. The edge shall be covered with curing materials equal to the material used on the surface or banked with soil 12 in. wide or greater.

SECTION 609, BEGIN LINE 100, INSERT AS FOLLOWS:

Liquid membrane forming curing compound shall be applied *to the RCBA* in a continuous uniform film at a rate not less than 1 gal./150 sq ft of concrete surface and shall be applied to provide a uniform, solid, white opaque coverage on all surfaces, similar to a white sheet of paper. *The curing compound shall be mixed thoroughly within 1 h before use. All concrete cured by this method shall receive two applications of the curing compound. The first application shall be applied immediately after surface water has disappeared and surface texturing has been applied. The second application shall be applied after the first application has set.* Additional applications, if needed, shall follow the previous application within 30 minutes. The curing compound may be warmed in a water bath during cold weather at a temperature not exceeding 100°F. Thinning with solvents will not be allowed. Non-uniform film rates will result in the discontinuance of that application method.

SECTION 609, AFTER LINE 112, INSERT AS FOLLOWS:

The RCBAs may be covered with an insulating material during the curing period. Insulating materials are not a substitute for curing and liquid membrane forming curing compound shall be applied prior to placing insulating materials.

Concrete sealer shall not be used on the RCBA. The concrete mix design shall use the silica fume option in accordance with 709.05(c). Slag cement shall not be used.

SECTION 609, BEGIN LINE 122, DELETE AND INSERT AS FOLLOWS:

609.12 Opening to Traffic

The RCBA may be opened to equipment and traffic when the flexural strength of the test beams indicates the concrete has attained a modulus of rupture of ~~550~~500 psi or greater.

SECTION 609, BEGIN LINE 157, DELETE AND INSERT AS FOLLOWS:

The cost of finishing, furnishing, ~~and~~ placing curing materials, *silica fume, insulating materials, and additional cement used* shall be included in the cost of the RCBA.

