

EXPECTED IMPLEMENTATION JANUARY 2021

450 PRECAST PRESTRESSED CONCRETE CONSTRUCTION. **(REV 4-30-20) (FA 7-9-20) (1-21)**

SUBARTICLE 450-9.2.1.1 is deleted and the following substituted:

450-9.2 Other Embedded Materials:

450-9.2.1 Inserts and Lifting Devices:

450-9.2.1.1 Placement: Locate inserts and lifting devices in accordance with the tolerances listed in 450-2.3. For stainless-steel or FRP reinforced products, use only non-metallic or stainless-steel (Type 304 or 316) inserts and lifting devices.

SUBARTICLE 450-11.6.1 is deleted and the following substituted:

450-11.6.1 Beam Ends that will not be Permanently Encased in Concrete Diaphragms:

1. Remove any corrosion product from all accessible surfaces at the cut end of the strands.
2. Apply two layers of epoxy to the exposed beam ends (including clipped and chamfered surfaces) no later than fourteen days after detensioning. Ensure that the first epoxy layer is cured before applying the second layer.

The finished thickness of the epoxy coating must be a minimum of 1/16 inch and form a vertical flat plane without deviations or localized depressions from recessed strands or other defects.

Ensure that the epoxy coating is cured per the manufacturer's recommendations prior to shipping the products.

Any modifications to the time limits above must be approved by the Engineer.

SUBARTICLE 450-11.6.2 is deleted and the following substituted:

450-11.6.2 Beam Ends that will be Permanently Encased in Concrete Diaphragms:

1. Cut the strands in accordance with 450-11.5.1.
2. Seal openings between strand and sheathing for debonded strands with 100% silicone sealant within fourteen calendar days of detensioning, and cure per the manufacturer's recommendations.

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SUBARTICLE 450-12.3.1.6 is deleted and the following substituted:

450-12.3.1.6 Shallow Surface Cracks: Shallow surface cracks are considered a minor defect, and are defined as the separation of the formed or finished surface up to 0.25 inch in depth.

Remove the affected material and repair the surface in accordance with 450-13.3.

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