

AASHTO M254

Corrosion Resistant Coated Dowel Bars

- Type A Bond breaker not required
- Type B Bond breaker required
- 24 bars made available to testing laboratory, 6 can be in basket, 120 days prior to their first intended use
- Steel per ASTM 633 or AASHTO M255 as specified by agency
- Type B material in FHWA –RD-74-18 report or approved by the agency
- Pull-out maximum 3000 lbs
- Other criteria: load deflection, abrasion, corrosion resistance, chemical resistance, cathodic disbonding, coating hardness, coating impact resistance

AASHTO T253

Coated Dowel Bars

- Pull-out test 3 dowels
- 6" cylinder, cure 48 hrs, pull ½" at 0.03 in/min and record
- Cure 12 days and place in sodium chloride solution for 50 cycles of F/T – 16 hours freeze and 8 hours thaw
- Pull ½" and record
- Test report shall include pull out results for both 48 hrs and 62 days

Proposed Revision

- Bring up to date with latest specifications and nomenclature
- Simplify testing procedure
 - Do we need the 2nd phase of pull out test – compare 1st 48 hour results to 64 day results
 - Do we need deflection testing of basket with current detail sheet
 - Do we need testing for abrasion, corrosion resistance, chemical resistance, cathodic disbonding, coating hardness, and coating impact resistance if we refer to ASTM 775 or 934