



Florida Department of Transportation

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MATERIALS BULLETIN NO. 02-18

DCE MEMORANDUM NO. 03-18

(FHWA Approved: 2/5/2018)

This Memo has Expired

TO: DISTRICT MATERIALS AND RESEARCH ENGINEERS
DISTRICT CONSTRUCTION ENGINEERS

FROM: Timothy Ruelke P.E., Director, Office of Materials
David A. Sadler, P.E., Director, Office of Construction

COPIES: Courtney Drummond, Amy Tootle, Bob Burleson, Rafiq Darji, Nick Finch, Jose Armenteros

SUBJECT: MATERIALS MANUAL 8.4 (SELF-CONSOLIDATING CONCRETE)
IMPLEMENTATION

The January 27, 2017 version of Section 8.4 Volume II of Self-Consolidating Concrete (SCC) is implemented for projects let January 2018 or after. This version of Section 8.4 has adopted ASTM C1712 "Standard Test Method for Rapid Assessment of Static Segregation Resistance of Self-Consolidating Concrete Using Penetration Test."

This memo clarifies details in the implementation of Materials Manual 8.4 Vol II.

1. The estimation of the precision of ASTM C1712 is provisional. A multi-operator precision statement has not yet been established. A data collection period of one year shall be used to gather data from Precast/Prestress Plants, and adjust the precision of this test method. After this period, the results will be evaluated to specify the variation.
2. During the data collection period, for projects let January 2018 or after, Plants shall follow the version of Materials Manual 8.4 Vol II appropriate to the letting.
 - a) Since the comparison criteria are provisional for 1 year, the Department's Verification Test (VT) results shall not be used for comparison.
 - b) If the Producer's Quality Control (QC's) penetration depth (Pd) is greater than 25 mm and the Visual Stability Index (VSI) is greater than 1, the concrete load shall be rejected and the LOT terminated as outlined in Section 346-8.

The Producer shall cast two 6" x 12" concrete cylinders for FM 5-615, Hardened Visual Stability Index (HSVI). District Materials Office personnel shall be invited to witness the evaluation. If the HVSI test results are greater than 1, the SCC is considered segregated and the LOT shall be rejected.

3. Previously approved mix designs are not required to be re-submitted for approval but shall follow what is established in the most current version of Materials Manual 8.4 Vol II, which includes the Pd measurement as outlined ASTM C1712, for each LOT.

Should you have any questions please contact Jose Armenteros, State Materials Office 352-955-6666.

TR/ja