

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
MATERIALS CONTROL, SOILS & TESTING DIVISION

MATERIALS PROCEDURE

CERTIFICATION OF FABRICATORS OF CORROSION RESISTANT COATED DOWEL
BARS IN BASKET ASSEMBLIES AND COATED DOWEL BARS

1. PURPOSE

- 1.1 To establish a procedure for certification of Fabricators of corrosion resistant coated dowel bars in basket assemblies and coated dowel bars, to set forth conditions for certification and to establish inspection and procedures for certified Fabricators.
- 1.2 This procedure shall apply to Fabricators of corrosion resistant coated dowel bars in basket assemblies and coated dowel bars who furnish material to WVDOH projects and purchase orders.

2. REFERENCED DOCUMENTS/SPECIFICATIONS

- 2.1 The coated dowel bars in basket assemblies and coated dowel bars shall meet the requirements of Section 709.15 of the Specifications.
- 2.2 MP 106.00.02 - Procedure for Evaluation of New Products for Use in Highway Construction
- 2.3 MP 709.01.51 - Acceptance Criteria for Epoxy Coated Reinforcing Steel

3. DOCUMENTATION OF CERTIFIED COATER

- 3.1 The Fabricator shall obtain the following information from the certified coater:
 - 3.1.1 Source for each material used.
 - 3.1.2 WV Laboratory number for the material.
 - 3.1.3 Source of coating.
 - 3.1.4 Type of coating.
 - 3.1.5 WV Laboratory Number for the material.
 - 3.1.6 Dry Film Thickness of the Coating.
 - 3.1.7 Total Number of linear feet (meters) of material used.

4. WORKMANSHIP AND INSPECTION

- 4.1 The load transfer unit shall be made in accordance with the applicable WVDOH Standard Detail Sheet.
- 4.2 The Fabricator shall inspect the coating for the following items:

- 4.2.1 Saw cut ends of the dowel shall be free of burns and projections.
- 4.2.2 Flaws, such as perforations, cracks, and holidays.
- 4.2.3 Damage from welding or mechanical fixation shall not extend more than 1.0 inches (26 mm) from the weld or point of fixation.

5. DIVISION SAMPLING AND TESTING

- 5.1 The Division may obtain samples at the Fabricator's shop and/or at the project site to ensure Specification compliance.
 - 5.1.1 The Division may elect to use other methods of verification, such as material, Division laboratory testing, and/or third-party laboratory testing.
 - 5.1.2 An inspection of the Fabricator shall be conducted every two years to verify the ability of the facility to produce products that meet Specification requirements.

6. APPROVED PRODUCT/SOURCE LIST

- 6.1 The Division will maintain an APL for Coated Dowel Bars and Coated Dowel Bars in basket assemblies.
 - 6.1.1 Prospective Producers/Suppliers shall complete form HL-468, as per MP 106.00.02 indicating their intention to be included on the WVDOT APL.
 - 6.1.2 The APLs for Coated Dowel Bars and Coated Dowel Bars in basket assemblies will be updated a minimum of once a year or as often as deemed necessary with the addition of a new facility or with the removal of a facility.
 - 6.1.3 If for any reason a Fabricator fails to meet the requirements as set forth above or in the Specifications, the Fabricator will be removed from the APL until such time as corrective action is taken to meet the acceptance criteria.
 - 6.1.4 The acceptance criteria for the APL for Coated Dowel Bars and Coated Dowel Bars in basket assembly shall meet WVDOT Specs 709.15 and MP 709.01.51.

7. DOCUMENTATION

- 7.1 For DOT projects, the Fabricator will submit the information contained on Attachment 1 with each shipment. Two copies will be required. One copy is sent with the shipment to the project: the other is sent to the following address:

Materials Control, Soils & Testing Division
190 Dry Branch Drive
Charleston, WV 25306

- 7.2 Upon receipt of the coated dowel bars and coated dowel bars in basket assembly from a certified source, the project shall note the lab number on the DWR.



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Materials Control, Soils & Testing Division

MP 709.15.50 Steward – Environmental and Coatings Section
RLS:Pr
ATTACHMENT

Attachment 1

COATED DOWEL BARS AND COATED DOWEL BARS IN BASKET ASSEMBLY

PROJECT:

FABRICATOR:

LOCATION:

SOURCE OF STEEL BARS:

WV LABORATORY APPROVAL NO. FOR STEEL BARS:

SOURCE OF STEEL WIRE:

WV LABORATORY APPROVAL NO. FOR STEEL WIRE:

COATER:

LOCATION:

SOURCE OF COATING:

WV LABORATORY APPROVAL NUMBER FOR COATING:

QUANTITY OF BASKET ASSEMBLIES:

NO. OF LINEAL FEET (METER):

SHIPPED TO:

DATE SHIPPED:

SIGNED _____

DATE _____