

SECTION 1022 -- DOWEL BARS

1022.01 -- Description

1. Coated dowel bars for use across transverse joints shall conform to the requirements of AASHTO M 254.

2. Coated dowel bars for use across transverse joints shall consist of a steel core with an organic covering and shall comply with the requirements of AASHTO M 254, Corrosion Resistant Coated Dowel Bars except:

a. The steel cores shall be smooth round bars of the diameters shown in the plans and shall comply with ASTM A 615/A 615M, Grade 40 or 60.

b. The coating on the lateral surface of the dowel may be eliminated for approximately 2 inches on one end of the dowel for welding purposes.

c. Both Type A and Type B coated dowel bars shall be coated with a bond breaker, dipped in asphalt or paraffin, or greased in accordance with the specified requirements as shown in the Standard Plans.

1022.02 -- Acceptance Requirements

1. A certification by the manufacturer of the coating material and/or the coating applicator is required. The certification shall consist of a statement to the effect that the coating material represented conforms to AASHTO M 254 and the requirements in this Section. The certifications shall be furnished in triplicate and include copies of the test results. The coating applicator shall also furnish 3 copies of the mill test showing physical and chemical test results of the steel used in the fabrication of the coated bars.

2. In addition to these certificates, two 6-foot (2 m) samples of the coated bar (for tension testing and bend testing) of each size bar and each heat number shall be sent to the NDR Materials and Tests Laboratory, Lincoln, Nebraska. These bars will be properly identified with tags showing the size and heat number.