



SECTION 1036

REINFORCING STEEL FOR CONCRETE

1036.1 Scope. This specification covers reinforcing steel to be used in concrete.

1036.2 Acceptance.

1036.2.1 All material shall be obtained from a source identified on the PAL designated for this specification. The source shall be listed on the PAL at the time the material is incorporated into the project.

1036.2.2 All material will be inspected and accepted in accordance with [Sec 106](#).

1036.2.3 AASHTO specifications, when referenced, will control only the physical properties, chemical properties and handling and storage of the material, except as otherwise specified herein or shown on the plans.

1036.3 Reinforcing Steel for Concrete Structures.

1036.3.1 Unless otherwise specified, reinforcement shall be deformed bars in accordance with either AASHTO M 31, AASHTO M 42 or AASHTO M 53. Bars in accordance with AASHTO M 42 and M 53 shall be in straight lengths only.

1036.3.2 Spiral reinforcement shall be in accordance with [Sec 1036.3.1](#), except that the reinforcement may be plain or deformed or shall be cold drawn steel wire in accordance with AASHTO M 32 or deformed steel wire in accordance with AASHTO M 225.

1036.3.3 Welded steel wire fabric shall be in accordance with AASHTO M 55 or AASHTO M 221.

1036.4 Steel Wire Fabric for Concrete Pavement. Welded steel wire fabric reinforcement for concrete pavement shall be in accordance with AASHTO M 55 or AASHTO M 221. The wire fabric shall be in mats of the size and design shown on the plans. Longitudinally hinged wire fabric for sheets of a required width of 8 feet (2.5 m) or greater may be used. The hinge shall be made by looping the transverse wires around a longitudinal wire and shall be capable of developing the full strength of the transverse wire. The hinge shall be located within one foot (300 mm) of the center of the width of the sheet. All steel wire fabric shall be free from dirt, paint, oil, grease, thick rust and other foreign substances. Thin powdery rust will be acceptable.

1036.5 Epoxy Coated Reinforcing Steel.

1036.5.1 Epoxy coated reinforcing steel shall be in accordance with AASHTO M 284/M284M-2 except as otherwise specified herein or shown on the plans.

1036.5.1.1 Only steel in accordance with [Sec 1036.3.1](#) shall be used.

1036.5.1.2 Coated bars shall not be spliced except as shown on the plans.

1036.5.1.3 Organic coatings, other than epoxy, shall not be used.

1036.5.1.4 Patching or repair material shall be compatible with the coating, inert in concrete and in accordance with the epoxy resin manufacturer's recommendations. The material shall be epoxy and be suitable for application at the plant or in the field to uncoated areas and damaged areas of the coating.

1036.6 Documentation.

1036.6.1 Documentation of uncoated steel shall include the steel manufacturer's certified mill test report showing complete chemical and physical test results for each heat.

1036.6.2 Documentation of coated steel shall include the coating applicator's certification that all material used, the preparation of the bars, coating and curing are in accordance with these specifications, and that no bar contains more than one holiday per linear foot (300 mm). The certification shall include or have attached specific results of tests of coating thickness and flexibility of coating.