

MATERIAL SPECIFICATION

539. Steel Reinforcement (for Concrete)

1. Scope

This specification covers the quality of steel reinforcement for reinforced concrete.

2. Quality

All reinforcement shall be free from loose or flaky rust, soil, oil, grease, paint or other deleterious matter.

Steel bars for concrete reinforcement shall be Grade 40, 50, or 60 deformed bars conforming to one of the following specifications:

Deformed and Plain Billet-Steel Bars for Concrete Reinforcement – ASTM A 615

Rail-Steel Deformed and Plain Bars for Concrete Reinforcement – ASTM A 616 with the S1 supplemental requirements

Axle-Steel Deformed and Plain Bars for Concrete Reinforcement – ASTM A 617.

Dowels shall be plain round bars conforming to the same specifications listed above for steel bars.

Fabricated deformed steel bar mats for concrete reinforcement shall conform to the requirements of ASTM A 184.

Plain steel welded wire fabric for concrete reinforcement shall conform to the requirements of ASTM A 185.

Deformed steel welded wire fabric for concrete reinforcement shall conform to the requirements of ASTM A 497.

Epoxy-coated steel bars for concrete reinforcement shall conform to the requirements of ASTM A 775.

3. Dimensions of Welded Wire Fabric

Gauges, diameters, spacing and arrangement of wires for welded steel wire fabric shall be as defined for the specified style designations.

4. Storage

Steel reinforcement inventories at the site of the work shall be stored above the ground surface on platforms, skids or other supports and shall be kept clean and protected from mechanical injury and corrosion.