

DELAWARE MATERIAL SPECIFICATION

STEEL REINFORCEMENT MS205

1. **SCOPE**

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

2. **QUALITY**

Reinforcing steel shall be Grade 60 unless otherwise specified on the drawings. Reinforcing steel shall be free from rust, oil, grease, paint, or other deleterious matter.

Steel bars for concrete reinforcement requiring bends shall be deformed billet-steel bars conforming to ASTM Specification A-615, Grade 40 or Grade 60.

Straight steel bars shall be deformed bars conforming to one of the following specifications:

Deformed Billet-Steel Bars for Concrete Reinforcement
(Grade 40 or Grade 60) – ASTM Designation A-615.

Rail-Steel Deformed Bars for Concrete Reinforcement
(Grade 50 or Grade 60) – ASTM Designation A-616.

Axle-Steel Deformed Bars for Concrete Reinforcement
(Grade 40 or Grade 60) – ASTM Designation A-617.

Fabricated steel bar mats shall conform to the requirements of ASTM Specification A-184.

Welded steel wire fabric reinforcement shall conform to the requirements of ASTM Specification A-185.

Welded deformed steel wire fabric for concrete reinforcement shall conform to the requirements of ASTM Specification A-497.

Cold-drawn steel wire reinforcement shall conform to the requirements of ASTM Specification A-82.

Deformed steel wire for concrete reinforcement shall conform to the requirements of ASTM Specification A-496.

3. **DIMENSIONS OF WELDED WIRE FABRIC**

Gauges, spacing and arrangement of wires in welded steel wire fabric shall be as defined in ACI Standard 315 of the American Concrete Institute for the specified style designations.

4. **STORAGE**

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