

**SECTION 03200**  
**CONCRETE REINFORCEMENT**

**PART 1 - GENERAL**

**1.1 SUMMARY:**

**A. Section Includes:**

1. Reinforcing steel bars, welded steel wire fabric, fabricated steel bar or rod mats for cast-in-place concrete.
2. Support chairs, bolsters, bar supports, and spacers, for supporting reinforcement.

**B. Related Sections:**

1. Section 02380 - Caissons.
2. Section 02520 - Portland Cement Concrete Paving.
3. Section 03100 - Concrete Formwork.
4. Section 03300 - Cast-in-Place Concrete: Concrete placement.
5. Section 03450 - Architectural Precast Concrete.
6. Section 04200 - Unit Masonry: Reinforcement for masonry.

**1.2 REFERENCES:**

- A. ACI 301 - Specifications for Structural Concrete for Buildings.
- B. ACI 315 - Details and Detailing of Concrete Reinforcement.
- C. ASTM A82 - Cold Drawn Steel Wire for Concrete Reinforcement.
- D. ASTM A185 - Welded Steel Wire Fabric for Concrete Reinforcement.
- E. ASTM A615 - Deformed and Plain Billet-Steel Bars for Concrete Reinforcement.
- F. ASTM A706 - Low-Alloy Steel Deformed Bars for Concrete Reinforcement.
- G. AWS D1.4 - Structural Welding Code Reinforcing Steel.
- H. CRSI - Manual of Practice
- I. CRSI 63 - Recommended Practice for Placing Reinforcing Bars.
- J. CRSI 65 - Recommended Practice for Placing Bar Supports, Specifications and Nomenclature.

### 1.3 QUALITY ASSURANCE:

- A. Perform concrete reinforcement work in accordance with CRSI Manual of Standard Practice, and Documents 63 and 65.
- B. Conform to ACI 301.
- C. Submit mill test certificates of supplied concrete reinforcing, indicating physical and chemical analysis.

### 1.4 Submittals

#### A. LEED MRc4: Recycled Content

Provide a statement from the manufacturer stating the recycled content percentage, by weight and whether the recycled content is post-consumer or post-industrial.

#### B. (LEED MRc5: Regional Materials)

Provide a statement from the manufacturer stating that materials provided are manufactured within a 500 mile radius of the project and indicate the location.

## PART 2 - PRODUCTS

### 2.1 MATERIALS:

- A. Reinforcing Steel: ASTM A615 plus (S1) and ASTM A706 for bars where welding is required, Grade 60 if not otherwise specified. Finish: Plain. Epoxy coated rebars will be considered at the design engineer's recommendation.

#### LEED MRc4: Recycled Content

Material shall contain recycled content when feasible.

- B. Welded Wire Fabric: ASTM A185. Finish: Plain. Furnish in flat sheets.

- C. Stirrup Steel: ASTM A82.

### 2.2 ACCESSORY MATERIALS:

- A. Tie Wire: Minimum 16 gage annealed type. Acceptable patented system.
- B. Chairs, Bolsters, Bar Supports, Spacers: Sized and shaped for strength and support of reinforcement during installation and placement of concrete.
- C. Chairs, Bolsters, Bar Supports, Spacers Adjacent to Architectural Concrete Surfaces: Plastic coated or plastic tipped type; size and shape as required.

### 2.3 FABRICATION:

- A. Fabricate in accordance with ACI 315, providing concrete cover specified in Section 03300.
- B. Weld reinforcing bars in accordance with AWS D1.4.

### PART 3 - EXECUTION

#### 3.1 FIELD QUALITY CONTROL:

- A. Notify Architect 24 hours prior to placement of concrete.

**END OF SECTION 03200**