

## SECTION 03240

## FIBROUS REINFORCING

## PART 1 GENERAL

## 1.01 SECTION INCLUDES

- A. Fibrous concrete reinforcement for shrinkage control.

## 1.02 UNIT PRICES

- A. No payment will be made for fibrous reinforcing under this Section. Include payment in unit price for concrete.

## 1.03 SUBMITTALS

- A. Submittals shall conform to requirements of all provisions and sections of these specifications.
- B. Submit manufacturer's product data indicating proposed fibrous concrete reinforcement materials for approval. Include documentation of performance history, compliance with applicable building codes, and ASTM C1116 Type III 4.1.3.
- C. Submit manufacturer's batching and mixing instructions; and recommended quantity, in pounds of fiber per cubic yard, to be added to each type and strength of concrete.
- D. Submit test data for design mixes in accordance with requirements of Sections 02521. Include results of tests accomplished in accordance with ASTM C94 and ASTM C1116 Type III 4.1.3; and ASTM C1116 (reference ASTM C1018) Performance Level I, outlined in Section 21 Note 7.

## PART 2 PRODUCTS

## 2.01 FIBROUS CONCRETE REINFORCEMENT

- A. Supply 100 percent virgin polypropylene fibrillated fibers specifically manufactured for use as concrete reinforcement. Materials shall not contain reprocessed olefin.
- B. Provide fibrous concrete reinforcement materials to produce requirements for each type and strength of concrete designated. Minimum fiber reinforcement content shall be 1.5 pounds per cubic yard of concrete.
- C. Physical characteristics:

1. Specific gravity 0.91
2. Tensile strength 80 - 110 ksi.
3. Fiber lengths Graded per manufacturer's recommendation.

## PART 3 EXECUTION

### 3.01 MIXING

- A. Add fibrous concrete reinforcement to concrete materials at the time concrete is batched. Amounts shall conform to approved Submittals for each type of concrete required.
- B. Mix batched concrete in accordance with fibrous concrete reinforcement manufacturer's instructions and recommendations. Attain uniform and complete distribution of fiber reinforcement.

### 3.02 PLACING AND FINISHING

- A. Place and finish concrete materials in accordance with requirements of Sections 02521. Finish to minimize protruding fibers.

### 3.03 FIELD QUALITY CONTROL

- A. Provide services of a qualified technical representative to instruct concrete supplier in proper batching and mixing of materials to be provided.
- B. Submit certificates prepared by concrete supplier indicating amount of approved fibrous concrete reinforcement material added to each batch of concrete delivered to project site.

END OF SECTION