Parapet Concrete Type ‘TX’, Item SPV.0090.xx.

**A Description**

This special provision describes constructing parapet concrete type ‘TX’.

**B Materials**

**B.1 Concrete**

Furnish concrete conforming to standard spec 502.

**B.2 Steel Reinforcement**

Furnish coated high-strength bar steel reinforcement conforming to standard spec 505.

**B.3 Polypropylene Fibers**

Furnish engineered synthetic reinforcing fibers of 100% polypropylene collated fibers with the following physical properties.

 Specific Gravity: 0.91

 Denier: Less than 100

 Modulus of Elasticity: 0.5x106 to 0.7x106 psi

 Tensile Strength: 70 to 110 ksi

 Length: 1/2 to 2-1/2 inches

Obtain written verification from the original manufacturer of the polypropylene fibers that all polypropylene fibers are specifically manufactured for use in concrete from virgin polypropylene and the physical properties are within the limits specified above.

**C Construction**

The polypropylene fiber manufacturer or authorized distributor shall provide the services of a qualified engineer or employee for a pre-construction meeting and initial job start up.

Use polypropylene fibers at a rate of 1.5 to 1.6 pounds per cubic yard of concrete. Fibers may be added with the fine and coarse aggregates or in the mixer after all ingredients have been blended and mixed per the manufacturer’s recommendations.

**D Measurement**

The department will measure Parapet Concrete Type ‘TX’ by the linear foot of parapet acceptably completed.

**E Payment**

The department will pay for measured quantities at the contract unit price under the following bid item:

|  |  |  |
| --- | --- | --- |
| ITEM NUMBER | DESCRIPTION | UNIT |
| SPV.0090.xx | Parapet Concrete Type ‘TX’ | LF |

Payment for Parapet Concrete Type ‘TX’ is full compensation for furnishing all materials, including concrete, steel reinforcement, polypropylene fibers, and formwork, and for construction of parapet type ‘TX’.