

ITEM 17203.75 M - WIRE MESH DRAPE

DESCRIPTION:

Under this item the Contractor shall furnish and install wire mesh and appurtenances on rock slopes as shown on the plans or as ordered by the Engineer.

MATERIALS:

1. Furnish 11 gauge (3 mm diameter), 8 by 10 (83 by 114 mm), galvanized steel wire mesh, conforming to ASTM A975-97, Style 1.
2. Furnish galvanized guide rail cable having a minimum diameter of 19 mm, 3 by 7 construction, and a minimum tensile strength of 111 kN per cable. Furnish guide rail cable and fittings (including galvanized thimbles and cable clamps) conforming to the requirements of Subsection 710-22 of the NYSDOT Standard Specifications.
3. Furnish appurtenances, galvanized as supplied by manufacturer, as follows:
 - a) 2.2 mm minimum diameter steel tie wire.
 - b) 3 mm minimum diameter (11 gauge) hog rings or other steel fasteners.
 - c) Welded forged steel rings with a stock diameter of 22 mm and a maximum inside diameter of 115 mm.
4. Furnish resin rock bolts, as specified separately under Item 17203.1714 M, with the exception that a pull test of 90 kN will be required on the first bolt per resin lot number. Additional bolts may be tested as ordered by Engineer. Resin packages of one setting time only shall be utilized for installation of the mesh support and cable anchor rock bolts.

CONSTRUCTION DETAILS:

1. Install untensioned 32 mm diameter resin rock bolts at the top of the rock slope on 15 meter centers (maximum) or as indicated. Place 19 mm diameter guide rail cable horizontally across the top of the rock slope so as to provide support for the wire mesh, as shown on the detail on the drawing. The cable shall be secured by 32 mm diameter resin rock bolts. Maintain a minimum cable sag of 0.6 to 0.8 meters between rock bolts. Do not draw cable taut. No splices of the guide rail cable will be allowed.
2. Fold the mesh over or under the guide rail cable a minimum of 0.3 meters and connect the horizontal lap with galvanized tie wire with a continuous weave through each of the mesh openings, as shown on the standard sheet for this specification.
3. Install the wire mesh in vertical strips, each lapped over the other by a minimum of 0.3 meters. Connect the adjacent vertical strips by EITHER a continuous weave of galvanized tie wire along the edge of the outer mesh strips only, OR with hog rings or metal ties as approved by the Engineer, on a 150 mm staggered pattern along the edges of

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both panels. When used, overlay horizontal laps a minimum of 0.3 meters and connect with a continuous weave of galvanized tie wire along the edge of the upper mesh strip.

4. Install the wire mesh to cover the specified area of rock face.
5. Repair all damaged galvanized surfaces in accordance with Subsection 719-01 of the NYSDOT Standard Specifications.

METHOD OF MEASUREMENT:

The quantity of wire mesh shall be measured by the number of square meters of rock face satisfactorily covered. No measurement will be made of wire mesh used in any overlap.

BASIS OF PAYMENT:

The unit price bid for this item shall include the cost of furnishing all equipment, materials, tools and labor necessary to complete this work, including disposal of any material removed from the slope. Rock bolts installed for purposes other than net anchors will be paid for under the appropriate item.

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