

ITEM 24616.16 M -- FIBER ROLLS

DESCRIPTION

A fiber roll is a coir, straw or excelsior woven roll encased in webbing. The tube material may be burlap unless otherwise specified in the Contract Documents. Fiber rolls are used to dissipate energy along banks of streams, channels, bodies of water or on slope contours. It must demonstrate the ability to conform to terrain details and reduce water velocity.

MATERIALS

The fiber roll shall be of the size and type specified elsewhere in the Contract Documents. The following minimum performance requirements shall be met as verified by the manufacturer's written certification:

- Sediment retention capacity of 40 kg/m under a minimum of three simulated 10 year predicted storm events on a 3:1 slope with clayey sand soil.
- Soil loss effectiveness shall not be less than 50% (minimum sediment yield reduction value) under the simulated rainfall event specified above.
- The maximum destabilizing moisture content of the fiber rolls shall not exceed 10% under the simulated rainfall event described above.

Wooden posts shall be prepared from new, sound, and untreated 50 by 50 mm lumber a minimum of 900 mm long.

Wire used to secure fiber rolls shall be 16 gauge nongalvanized wire.

CONSTRUCTION DETAILS

The fiber roll manufacturer and the product proposed for use shall be approved by the Engineer prior to delivery to the project site based on the manufacturer's certification indicating compliance with the material requirements.

Under this item the Contractor shall furnish and install fiber rolls in accordance with the contract documents.

Installation includes, all excavation and backfill necessary to embed and fit the material to the proposed site.

Install vegetative plantings and use other erosion control methods and techniques were specified in the Contract documents.

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METHOD OF MEASUREMENT

The quantity of fiber rolls will be measured as the number of linear meters of fiber rolls satisfactorily installed and accepted.

BASIS OF PAYMENT

The unit price bid per linear meter shall include the cost of furnishing all labor, materials, and equipment necessary to complete the work.

Vegetative plantings, additional soil bioengineering techniques or other erosion control methods, if specified, shall be paid for under separate items.