

ITEM 10209.2012 M - BIO-FIBER ROLLS, 305 mm

ITEM 10209.2016 M - BIO-FIBER ROLLS, 406 mm

ITEM 10209.2020 M - BIO-FIBER ROLLS, 508 mm

DESCRIPTION

This work shall consist of furnishing and installing the Bio-Fiber Rolls for the protection and enhancement of existing shore, stream or river banks. The installation of these Bio-Fiber Rolls shall be done in accordance with these specifications and in a reasonably close conformity with the details shown on the plans or established by the Engineer.

MATERIALS

The rolls shall have a density of 144 kg/m³. The exterior 51mm knotted mesh netting of the Bio-Fiber Roll shall be 100% coir fiber mesh or a woven polyethylene material. The interior material shall be 100% coconut fiber.

The stone material installed shall conform to §620-2.02.

Stakes shall be Oak or Southern Yellow Pine untreated wood.

CONSTRUCTION DETAILS

Bio-Fiber Rolls with a diameter as indicated on the contract drawings shall be installed where and as shown on the contract plans, tables, or as directed by the Engineer.

The Contractor shall install wood stakes as detailed in the plans, to support the Bio-Fiber Rolls. After driving, the top of the stakes shall extend above the center line of the Bio-Fiber Roll. The stone shall be placed around the wood stakes and shaped to accommodate the Bio-Fiber Rolls.

The lengths of Bio-Fiber Roll shall be placed in position adjacent to the row of stakes, between the bank and stakes. The upper surface of the roll shall be parallel to the water surface as shown in the plans, protruding above mean water level (to be determined on site; not necessarily the current water level). Adjustments shall be made as needed, using hand tools to seat the roll such that it lies smoothly at the correct elevation. The upstream and downstream ends of the rolls shall be buried 0.9 to 1.5 m into the bank.

The rolls shall be laced together end-to-end with nylon rope to create a continuous length. End-to-end lacing may be completed before or after placement to facilitate handling.

When erosion control blanket material is used in conjunction with the Bio-Fiber Rolls to cover the slopes of disturbed banks, the fabric shall be stapled to the back of the Bio-Fiber Roll as shown in the details.

The Contractor shall be responsible to maintain the Bio-Fiber Rolls installation for the duration of the contract and thru the period of establishment of those plantings put into the roll as specified under §611-3.06, Period of Establishment. Any material that has to be replaced or repaired shall be replaced or repaired by the Contractor at no additional cost to the State.

METHOD OF MEASUREMENT

This work will be measured as the number of linear meters of Bio-Fiber Rolls installed in accordance with the specification and as directed by the Engineer.

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BASIS OF PAYMENT

The unit price bid per meter shall include the cost of furnishing all labor, material, and equipment necessary to complete the work including installing Bio-Fiber Rolls and stone filling as shown in the contract plans. The Contractor will be paid 80% of the bid price upon the installation of the Bio-Fiber Rolls and the remaining 20% upon the completion of the project and or Period of Establishment.

Payment for furnishing and installing erosion control blanket material, where used, will be made under the item for "Furnishing and Placing Jute Mesh or Other Approved Erosion Control Materials."