

ITEM 17207.1596 M - PREFABRICATED COMPOSITE STRUCTURAL DRAIN

DESCRIPTION:

This work shall consist of furnishing and installing an approved Prefabricated Composite Structural Drain (PCSD) at the location(s) shown on the contract documents or as directed by the Engineer, in writing, prior to performing the work.

Prior to installation, the Contractor shall furnish the Engineer with copies of the manufacturer's literature with details and installation requirements for the PCSD. Only PCSD with an impermeable core will be approved for use in installations where fresh concrete is to be placed against the drain. All other installations shall use an approved PCSD with a permeable core.

MATERIALS:

A. General

The PCSD shall be a flexible, rectangular shaped product consisting of a geotextile permanently bonded to an internal supporting core.

PCSD shall be resistant to deterioration from salts, road oils, fuels and other deleterious substances encountered in this type of application.

B. Basis of Acceptance

1. The product is listed in the current NYSDOT Approved List of Geosynthetics for Highway Construction as a Prefabricated Structural Drain.
2. Evaluation for approval may be obtained by submitting the following to the New York State Department of Transportation - Geotechnical Engineering Bureau:
 - a. A 16 square meter sample of the geotextile, if not included on the NYSDOT Approved List - Underdrain Category.
 - b. A two (2) square meter sample of the PCSD.

Evaluation of a PCSD, which will require a minimum of four months, will be made in accordance with procedural directives of the Geotechnical Engineering Bureau.

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CONSTRUCTION DETAILS:

The PCSD shall be installed in conformance with the manufacturer's installation procedures. The PCSD shall be installed so that the geotextile shall be in contact with the backfill and shall form a continuous drainage layer without interruption within the drain's plane. Adhesive shall not be applied directly to the PCSD.

During all periods of shipment and storage the PCSD shall be kept wrapped and protected from direct exposure to sunlight, mud, dirt and debris.

The Contractor shall exercise care while backfilling to prevent damage to the PCSD. Repairs or replacement of PCSD damaged by the Contractor's operations shall be done as directed by the Engineer at no cost to the State.

METHOD OF MEASUREMENT:

The quantity of PCSD will be the number of square meters satisfactorily installed computed from the payment lines indicated in the contract documents or from payment lines established in writing by the Engineer.

BASIS OF PAYMENT:

The unit price per square meter for this item shall include the cost of furnishing all labor, equipment, and material necessary to satisfactorily complete the work. Payment will not be made for repairs. Payment for outlets will be made under the appropriate pay items.