

**ITEM 17207.1702 M - PREFABRICATED COMPOSITE STRUCTURAL DRAIN**  
**ITEM 17207.1802 M - PREFABRICATED COMPOSITE INTEGRAL ABUTMENT**  
**DRAIN**

This  
Specification

**REASON FOR DISAPPROVAL:**

The specifications for the prefabricated composite structural drain and prefabricated composite integral abutment drain have been incorporated into the January 2, 2002 Standard Specifications, Vol. I, in Section 207 - Geotextiles and Prefabricated Composite Drains for Structures. The following items are listed in the Section:

Item 207.15 M - Prefabricated Composite Structural Drain

Item 207.16 M - Prefabricated Composite Integral Abutment Drain

The pay items have been  
replaced by items  
207.15 and 2.7.16

This specification was retained in service until  
October 2000 to allow  
guidelines for the new 207  
specifications to be developed.

**ITEM 17207.1702 M - PREFABRICATED COMPOSITE STRUCTURAL DRAIN**  
**ITEM 17207.1802 M - PREFABRICATED COMPOSITE INTEGRAL ABUTMENT DRAIN**

**DESCRIPTION:**

This work consists of furnishing and installing an approved Prefabricated Composite Structural Drain (PCSD) or Prefabricated Composite Integral Abutment Drain (PCIAD) as specified 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, furnish the Engineer with copies of the manufacturer's literature with details and installation requirements for the PCSD or PCIAD.

**MATERIALS:**

A. General

Provide PCSD or PCIAD that is a flexible, rectangular shaped product consisting of a geotextile bonded to an internal supporting core.

Provide PCSD or PCIAD that is resistant to deterioration from salts, road oils, fuels and other deleterious substances encountered in this type of application.

B. Basis of Acceptance

1. The PCSD is listed in the current NYSDOT Approved List of Geosynthetics for Highway Construction as a Prefabricated Composite Structural Drain.
2. For integral abutment applications, the PCIAD is listed in the current NYSDOT Approved List of Geosynthetics for Highway Construction as a Prefabricated Composite Integral Abutment Drain.
3. Only approved structural drains with an impermeable core will be permitted for use in installations where fresh concrete is to be placed against the drain.
4. Evaluation for approval of drains not on the approved list is obtained by the following procedure:
  - a. Submit the geotextile through the AASHTO/NTPEP geotextile program for testing.
  - b. Submit a 1.5 sq. meter sample of the PCSD or PCIAD to the NYSDOT Geotechnical Engineering Bureau.

Evaluation of a PCSD or PCIAD, which will require a minimum of four months, will be

**ITEM 17207.1702 M - PREFABRICATED COMPOSITE STRUCTURAL DRAIN**  
**ITEM 17207.1802 M - PREFABRICATED COMPOSITE INTEGRAL ABUTMENT**  
**DRAIN**

made in accordance with procedural directives of the Geotechnical Engineering Bureau.

**CONSTRUCTION DETAILS:**

Install the drain in conformance with the manufacturer's installation procedures. Install the drain so that the geotextile is in contact with the backfill and forms a continuous drainage layer without interruption within the drain's plane. At all locations, provide a positive outlet for the water in the drain. This may involve making a hole in the core at the weep hole locations for approved drains with an impermeable core. Do not puncture the geotextile. Repair any damaged geotextile.

Apply adhesive to the wall surface, and not directly to the drain.

During all periods of shipment and storage, keep the drain wrapped and protected from direct exposure to sunlight, mud, dirt and debris.

Exercise care while backfilling to prevent damage to the drain. Perform repairs or replacement of drain damaged by construction operations as directed by the Engineer at no cost to the State.

**METHOD OF MEASUREMENT:**

The quantity of PCSD or PCIAD is 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 includes the cost of furnishing all labor, equipment, and material necessary to complete the work. Payment will not be made for repairs.