

**SUPERSEDED BY EB 01-010
EFFECTIVE 2/6/01**

ENGINEERING INSTRUCTION

NEW YORK STATE DEPARTMENT OF TRANSPORTATION

**SUBJECT: CHANGE IN SPECIFICATIONS
(PLASTIC FILTER FABRIC)**

Subject Code:

Distribution:



Main Office



Regions

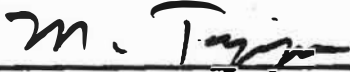


Special

Code: 81-50

Date: 12/21/81

APPROVED:



M. TEGZA, Director, Final Plan Review Bureau

Supersedes:

Special Specifications 17203.97 Plastic Filter Fabric (Undercut) and
17203.95 Plastic Filter Fabric (Bedding)

have been modified and are disapproved for use after the March 25, 1982
letting.

Special Specifications 17203.9701 Plastic Filter Fabric (Undercut) and
17203.9501 Plastic Filter Fabric (Bedding)

are now the approved versions and should be used as of the March 25, 1982
letting.

PREL.	FINAL
DESIGN	LANDSCAPE
RECEIVED	
FACILITIES DESIGN DIVISION	
JAN 13 1982	
FILE	FILE

ITEM 17203.97Q1 PLASTIC FILTER FABRIC (UNDERCUT)

DESCRIPTION. The work shall consist of furnishing and installing plastic filter fabric at the locations and in the manner as shown on the plans. This plastic filter fabric shall form a continuous, permeable layer over areas of soft, wet soils to allow water to pass through and drain into the overlying materials without allowing the soil particles to flow through.

MATERIALS. The plastic filter fabric used for this Item shall be judged on its ability to provide a permeable layer which allows water, but not soil particles to pass through. Application for approval of a plastic filter fabric shall be made by submitting a 5 square yard sample of the fabric and the manufactureres affidavit as to the physical properties of the fabric to the Soil Mechanics Bureau.

The approval of the plastic filter fabric shall be based upon the submitted information and an evaluation of the fabric sample. Upon approval by the Soil Mechanics Bureau, the name of the product will be placed on an approved list. Such products shall then be accepted on the basis of the brand name labeled on the fabric or the fabric container.

CONSTRUCTION DETAILS. Plastic filter fabrics which are subject to deterioration by ultra-violet rays shall be protected from sunlight during transport and storage. For these fabrics which are subject to damage from sunlight the information on the packaging material shall warn against exposing the plastic filter fabric to sunlight. The plastic filter fabric shall be placed at the locations shown on the plans, except where directed otherwise by the Engineer, in writing, prior to performing the work. In these areas, the surface upon which the fabric is to be placed shall be graded to be within reasonable close conformity to the proposed grade. The fabric shall be loosely laid on the prepared surface and the overlying material placed within two weeks. This applies to installations using those fabrics that are subject to damage from sunlight as well as to those installations using fabrics that are not subject to damage from sunlight. Sufficient slack shall be left in the fabric around irregularities to allow readjustments without tearing. No traffic or construction equipment will be permitted to travel directly on the plastic filter fabric. The overlying material used as backfill may be placed in one lift and compacted as approved by the Engineer. All tears shall be patched by placing an additional section of fabric over the tear with a three foot overlap.

Where it is necessary to place strips of plastic filter fabric, the strips shall be either field sewn with a 4 inch minimum lap at the seam using nylon or polypropylene thread or overlapped a minimum of three feet. If the overlaps are perpendicular to the centerline of the work, the overlap shall be in the direction of the granular material placement.

METHOD OF MEASUREMENT. The quantity of plastic filter fabric to be paid for under this Item will be the number of square feet computed between this payment lines shown on the plans or from payment lines established in writing by the Engineer prior to performing the work. No quantity will be included for material used for repair of tears or for material used at the overlaps.

ITEM 17203.9701 PLASTIC FILTER FABRIC (UNDERCUT) (cont.)

BASIS OF PAYMENT. The unit price bid per square foot for this Item shall include the cost of furnishing all labor, equipment, and materials necessary to complete the work according to the plans and specifications. The cost of preparing the surface upon which the fabric is placed shall be included in the price bid for excavation. The material used as backfill will be paid for under its respective item.

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ITEM 17203.9501 PLASTIC FILTER FABRIC (BEDDING)

DESCRIPTION

Plastic Filter Fabric (Bedding) shall consist of approved filter fabric placed on the ground surface, where required by the plans or as directed by the Engineer, before placing stone filling or rip-rap. The purpose of the Plastic Filter Fabric is to keep underlying materials from passing into the through the stone filling and rip-rap.

MATERIALS

The Plastic Filter Fabric used for this Item shall be evaluated on its ability to provide a permeable layer which allows water, but not soil particles to pass through. Application for approval of a Plastic Filter Fabric shall be made by submitting a 5 square yard sample of the fabric and the manufacturer's affidavit as to the physical properties of the fabric to the Soil Mechanics Bureau.

The approval of the Plastic Filter Fabric shall be based upon the submitted information and an evaluation of the fabric sample. Upon approval by the Soil Mechanics Bureau, the name of the product will be placed on an approved list. Such products shall then be accepted on the basis of the brand name labeled on the fabric or the fabric container.

CONSTRUCTION DETAILS

Plastic Filter Fabrics which are subject to deterioration by ultra-violet rays shall be protected from sunlight during transport and storage. For these fabrics which are subject to damage from sunlight, the information on the packaging material shall warn against exposing the Plastic Filter Fabric to sunlight.

The Plastic Filter Fabric shall be spread on a prepared area where called for on the plans or as directed by the Engineer. The long dimension of Plastic Filter Fabric sheets shall be placed parallel to the direction of flow, unless otherwise approved by the Engineer. The fabric shall be laid loosely, so that placement of the overlying materials will not stretch or tear it. Fabric shall be anchored by stones placed on the Plastic Filter cloth to hold it in position or by alternate methods, as approved by the Engineer. Where Plastic Filter Fabric is placed above water, adjacent sheets shall be overlapped at least eighteen inches.

For underwater placement, unless otherwise approved by the Engineer, adjacent sheets shall be overlapped at least three feet. The plastic Filter Fabric shall be placed underwater by unrolling. The roll of Plastic Filter Fabric shall be rigidly supported during the unrolling operation. As the fabric is placed underwater, stone filling shall be placed on it to the required thickness. The unrolling shall not

ITEM: 17203.9501 PLASTIC FILTER FABRIC (BEDDING)

progress more than 50 feet ahead of the stone filling placement.

No traffic or construction equipment will be permitted directly on the fabric. The fabric shall not be left uncovered for more than two weeks. This restriction applies to those fabrics that are subject to damage from sunlight as well as those that are not. Stone placement shall begin at the toe and proceed up the slope. Stone Filling (Heavy) or Stone Filling (Medium) shall not be dropped on Plastic Filter Fabric from a height greater than one foot. Other smaller sizes of stone filling may be dropped onto Plastic Filter Fabric from a height not exceeding three feet.

Plastic Filter Fabric that becomes torn or otherwise damaged through any cause shall be patched by placing an additional section of Plastic Filter Fabric over the tear with a three foot overlap on all sides.

METHOD OF MEASUREMENT

The quantity of Plastic Filter Fabric will be the number of square feet computed between the payment lines shown on the plans or from payment lines established in writing by the Engineer prior to performing the work. No quantity will be included for material used for repair of tears or for material used at the overlaps.

BASIS OF PAYMENT

The unit price bid per square foot for this Item shall include the cost of furnishing all labor, equipment, and materials necessary to complete the work according to the plans and specifications including the cost of preparing the surface upon which the fabric is placed. The material used as backfill will be paid for under its respective item.

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