
Instructions for use

Construction Specifications 95—Geotextile

1. Applicability

This specification is applicable for the installation of both woven and nonwoven geotextiles used for purposes of slope protection, subsurface drains, and stabilization of soils.

2. Material specifications

Material Specification 592 complements Construction Specification 95.

3. Included items

Items to be included in the contract specifications and drawings follow:

- a. The purpose or use of the geotextile (i.e., slope protection) and the selection of class I, II, III, or IV, as appropriate, woven or nonwoven, (See Design Note 24).
- b. The range of apparent opening size (AOS) for woven geotextiles. Any increase or change from those parameters shown in tables 1 and 2 that are desired and based on specific design data. The minimum permittivity and the maximum apparent opening size (AOS). The specifier may choose to not specify these values, in which case, the default values in MS 592 tables 1 and 2 will govern. (Note that in many cases, the default values in tables 1 and 2 are overly restrictive.)
- c. When specified, size and configuration of panels for payment (e.g., method 2). Note: A panel represents pieces from a roll that have been seamed together to create the specified size and shape.
- d. Details of panel joining and splicing; i.e., seaming, overlap or folding (method 1 or method 2 in section 5).
- e. The required roll width, when necessary.
- f. Details of panel placement, orientation, and anchorage, when necessary. Perimeter and toe anchorage details, as necessary. When the use of pins is acceptable as temporary anchorage, so specify. For Method 1, specify the required seam strength per ASTM D4884.

- g. Requirements of cushioning or bedding material used to cover the geotextile to protect against damage during placement of surface material, such as rock riprap.
- h. Special installation requirements.
- i. In section 6 for measurement when method 1 or 2 is selected, note the method of measurement being horizontal or slope measurement in determining surface area of the geotextile for payment purposes.

4. Methods

Section 5, Placement

Method 1—Intended to be used when the geotextile is used for reinforcement and tensile strength is required across the seam or when the primary use of the geotextile is to function as a filter and holes or "holidays" from anchoring pins might compromise the integrity of the installation.

Method 2—Intended to be used when the primary use of the geotextile is to function as a bedding and as a separator of material. Seepage may be present, but the potential for piping in the base soil material is not a concern.

May also need to specify whether a, b, or c in the Included items apply.

Section 6, Measurement and payment

Method 1—Intended for use when the geotextile is measured for payment based on the total surface area covered. The additional lap material needed for joining is not measured for payment.

Method 2—Intended for use when the geotextile is measured for payment based on the roll width and length used to cover the area. The measurement includes that amount needed for overlap and joining panels.

Method 3—Intended for use when the quantity is not measured for payment and there is not likely to be any change in quantity.

When specifications are prepared using electronic procedures and all methods but one are deleted for use in a contract specification, delete from the last paragraph, ***All Methods The following provisions apply to all methods of measurement and payment.*** Left justify the remaining text.

5. Items of work and construction details

Starting at the top of page 95–3, prepare and outline job specific "Items of Work and Construction Details" (IWCD) in accordance with these instructions.