

1710 – GEOTEXTILE FABRIC

SECTION 1710

GEOTEXTILE FABRIC

1710.1 DESCRIPTION

This specification covers the requirements for geotextile fabrics and securing pins for use in subsurface drainage, separation, and stabilization.

1710.2 REQUIREMENTS

a. Geotextiles. Provide woven, non-woven, or composite geotextiles that comply with the general physical and the geotextile property requirements for subsurface drainage, separation, and stabilization in AASHTO M 288, with strength class and other properties as specified in the Contract Documents. Store and handle geotextiles according to ASTM D 4873. Do not use torn or punctured geotextiles.

When seams are required, use “Butterfly” seams that have a Federal Standard designation of Type SSD-1. Place the stitching approximately 1 inch from the fold. Make sure the two fabric edges are even and have been completely penetrated by the seam. Use polyester, polypropylene or Kevlar thread with durability equal to or greater than the material used in the fabric.

b. Securing Pins. When required, provide steel securing pins that are nominally $\frac{1}{4}$ inch in diameter, and 18 inches long, pointed at one end and fitted with a $1\frac{1}{2}$ inch outside diameter steel washer at the other end.

1710.3 TEST METHODS

Test in accordance with the procedures referenced in AASHTO M 288 for each type of geotextile fabric.

1710.4 PREQUALIFICATION

Supply samples for prequalification to the AASHTO National Transportation Product Evaluation Program (NTPEP). Forward an official copy of the test report to the Bureau Chief of Materials and Research for evaluation. Prequalification will be based on satisfactory compliance of NTPEP results with AASHTO M 288. Products will be qualified and listed on the basis of strength class, use category and specific property requirements.

1710.5 BASIS OF ACCEPTANCE

a. Geotextiles

Prequalification as specified in **subsection 1710.4.**

Receipt and approval of a Type C certification as specified in **DIVISION 2600.**

Visual inspection for damage during shipment, fit and other visual defects, and disposition when delivered to the project site.

b. Securing Pins.

Securing pins are accepted on the basis of a visual inspection and performance in the field.