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Standard Guide for the Selection of Test Methods for Fabrics Used for Fabric Formed Concrete (FFC)¹

This standard is issued under the fixed designation D 6685; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reapproval.

1. Scope

1.1 This guide lists ASTM standards available for the testing evaluation of fabrics used to form fine aggregate concrete.

1.2 This guide identifies the test methods available to manufacturers, engineers, testing organizations and other related parties.

1.3 This guide provides a list of test methods that can be used by the reader to determine the properties of fabric used to form fine aggregate concrete.

1.4 This guide is not intended to be used in the establishment of performance criteria, but as a guide for product development and purchasing contracts.

1.5 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

1.6 *This guide offers an organized collection of information or a series of options and does not recommend a specific course of action. This document cannot replace education or experience and should be used in conjunction with professional judgement. Not all aspects of this guide may be applicable in all circumstances. This ASTM standard is not intended to represent or replace the standard of care of which the adequacy of a given professional service must be judged, nor should this document be applied without consideration of a project's many unique aspects. The word "Standard" in the title of this document means only that the document has been approved through the ASTM consensus process.*

2. Referenced Documents

2.1 ASTM Standards:

- D 4354 Practice for Sampling of Geosynthetics for Testing²
- D 4355 Test Method for Deterioration of Geotextiles from Exposure to Ultraviolet Light and Water (Xenon-Arc Type Apparatus)²

¹ This guide is under the jurisdiction of ASTM Committee D18 on Soil and Rock and is the direct responsibility of Subcommittee D18.25 on Erosion and Sediment Control Technology.

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² *Annual Book of ASTM Standards*, Vol 04.13.

- D 4439 Terminology for Geosynthetics²
- D 4486 Test Method for Abrasion Resistance of Geotextiles (Sand Paper/Sliding Block Method)³
- D 4491 Test Method for Water Permeability of Geotextiles by Permittivity²
- D 4533 Test Method for Trapezoid Tearing Strength of Geotextiles²
- D 4595 Test Method for Tensile Properties of Geotextiles by the Wide Width Strip Method²
- D 4751 Test Method for Determining Apparent Opening Size of a Geotextile²
- D 4759 Practice for Determining Specification Conformance of Geosynthetics²
- D 4873 Guide for Identification, Storage, and Handling of Geotextiles²
- D 4884 Test Method for Strength of Sewn or Thermally Bonded Seams of Geotextiles²
- D 5261 Test Method for Measuring Mass Per Unit Area of Geotextiles²
- D 5321 Test Method for Determining the Coefficient of Soil and Geosynthetic or Geosynthetic and Geosynthetic Friction by the Direct Shear Method²

3. Terminology

3.1 *Definitions*—For definitions of terms used in this standard, refer to the Terminology for Geosynthetics D 4439.

3.2 Definitions of Terms Specific to This Standard:

3.2.1 *Fabric Formed Concrete (FFC) Revetment*—A fine aggregate concrete filled woven mattress used to protect soils from erosion. A high strength synthetic fabric is used as a form to cast the fine aggregate concrete.

4. Significance and Use

4.1 This guide identifies test methods used in the process of determining the characteristics of fabrics used to form fine aggregate concrete for properties such as mass, apparent opening size, tensile strength, water permeability and other mechanical properties.

4.2 This guide is intended for general use by those who manufacture, specify or install fabric formed concrete (FFC) revetments.

³ *Annual Book of ASTM Standards*, Vol 04.08.