



Designation: D8102 – 17

Standard Practice for Manufacturing Quality Control of Geotextiles¹

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1. Scope

1.1 This practice covers the manufacturing quality control of geotextiles, describing types of tests, the proper test methods, minimum testing frequencies, and best practices for sampling.

1.2 This practice does not address manufacturing quality assurance, product acceptance testing, or conformance testing. These are independent activities taken by organizations other than the geotextiles manufacturer.

1.3 This practice is intended to aid manufacturers, suppliers, purchasers, installers, and end users of geotextiles in establishing a minimum level of effort for maintaining quality control.

1.4 This practice covers procedures for sampling geotextiles for the purpose of manufacturing quality control (MQC). These procedures are designed to ensure that the correct number of representative samples are obtained and properly reported by the manufacturer.

1.5 The values stated in SI units are to be regarded as the standard. The values given in parentheses are for information only.

1.6 *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.*

2. Referenced Documents

2.1 ASTM Standards:²

D123 Terminology Relating to Textiles

D4354 Practice for Sampling of Geosynthetics and Rolled Erosion Control Products (RECPs) for Testing

D4355 Test Method for Deterioration of Geotextiles by Exposure to Light, Moisture and Heat in a Xenon Arc Type Apparatus

¹ This practice is under the jurisdiction of ASTM Committee D35 on Geosynthetics and is the direct responsibility of Subcommittee D35.01 on Mechanical Properties.

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² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

D4491 Test Methods for Water Permeability of Geotextiles by Permittivity

D4533 Test Method for Trapezoid Tearing Strength of Geotextiles

D4595 Test Method for Tensile Properties of Geotextiles by the Wide-Width Strip Method

D4632 Test Method for Grab Breaking Load and Elongation of Geotextiles

D4751 Test Methods for Determining Apparent Opening Size of a Geotextile

D5261 Test Method for Measuring Mass per Unit Area of Geotextiles

D6241 Test Method for Static Puncture Strength of Geotextiles and Geotextile-Related Products Using a 50-mm Probe

2.2 *American National Standard:*³

ANSI/ASQ Z1.9-2008 Sampling Procedures and Tables for Inspection by Variables for Percent Nonconforming

3. Terminology

3.1 Definitions:

3.1.1 For definitions of other textile terms used in this standard, refer to Terminology **D123**.

3.2 Organizational Definitions:

3.2.1 *installer, n*—party who installs, or facilitates installation of, any materials purchased from manufacturers or suppliers.

3.2.2 *manufacturer, n*—group, corporation, partnership, or individual that manufactures a product.

3.2.3 *purchaser, n*—person, company, or organization that purchases any materials or work to be performed.

3.2.4 *supplier, n*—party who supplies materials or services.

3.3 Sampling Definitions:

3.3.1 *lot (geotextile lot), n*—the amount of geotextile produced per style type under the same standard operating conditions during a specific period of time not to exceed twelve consecutive months.

3.3.2 *lot summary, n*—a lot-specific report that shows all sequential sample roll test results and the associated lot

³ Available from American Society for Quality (ASQ), 600 N. Plankinton Ave., Milwaukee, WI 53203, <http://www.asq.org>.