



Designation: **D6566 – 00 (Reapproved 2006) D6566 – 12**

Standard Test Method for Measuring Mass per Unit Area of Turf Reinforcement Mats¹

This standard is issued under the fixed designation D6566; 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 test method covers an index to the determination of mass per unit area of all turf reinforcement mats.
- 1.2 The values stated in SI units are to be regarded as standard. The values given in parentheses are for information only.
- 1.3 *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](#)

[D1776 Practice for Conditioning and Testing Textiles](#)

[D4354 Practice for Sampling of Geosynthetics and Rolled Erosion Control Products\(RECPs\) for Testing](#)

[D4439 Terminology for Geosynthetics](#)

2.2 ISO/DIS Document:

[9864-1990 Mass per Unit Area of Geotextiles](#)³

3. Terminology

3.1 Definitions:

3.1.1 *geosynthetic, n*—~~a planar product manufactured from polymeric material used with soil, rock, earth, or other geotechnical-engineering-related material as an integral part of a man-made project, structure, or system.~~

3.1.2 *geotextile, n*—~~any permeable textile used with foundation, soil, rock, earth, or any other geotechnical-engineering-related material as an integral part of a man-made project, structure, or system.~~

3.1 For definitions of other textile terms used in this test method, refer to Terminology [D123](#).

3.2 For definitions of other terms relating to geotextiles used in this test method, refer to Terminology [D4439](#).

4. Summary of Test Method

4.1 The mass per unit area of a turf reinforcement mat is determined by weighing test specimens of known dimensions, cut from equally spaced distances over the full width of the laboratory sample. The calculated values are then averaged to obtain the mean mass per unit area of the laboratory sample.

5. Significance and Use

5.1 This test method is used to determine if the turf reinforcement mat meets specifications for mass per unit area. This test method can be used for quality control to determine specimen conformance. This measurement allows for a simple control of the delivered material by a comparison of the mass per unit area of the delivered material and the specified mass per unit area.

¹ This test method is under the jurisdiction of ASTM Committee [D35](#) on Geosynthetics and is the direct responsibility of Subcommittee [D35.05](#) on Geosynthetic Erosion Control.

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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.

³ Available from American National Standards Institute, 11 W. 42nd St., 13th Floor, New York, NY 10036.