



Standard Guide for Identification, Storage, and Handling of Geosynthetic Rolls¹

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1. Scope

1.1 This guide provides guidelines for the identification and packaging of rolled geosynthetics by the manufacturer and for the handling and storage of geosynthetics by the end user. This guide is not to be considered as all encompassing since each project involving geosynthetics presents its own challenges and special conditions.

1.2 This guide is intended to aid manufacturers, suppliers, purchasers, and users of geosynthetics for identification, handling, and storage.

1.3 This guide is not applicable for factory fabricated panels due to a different set of identifications for the panel by the fabricator.

1.4 *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:

D 123 Terminology Relating to Textiles²

D 4439 Terminology for Geosynthetics³

3. Terminology

3.1 Definitions:

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

3.1.2 *geotextile, n*—a permeable geosynthetic comprised solely of textiles.

3.1.3 For definitions of other geosynthetic terms, refer to Terminology D 4439.

3.1.4 For definitions of textile terms, refer to Terminology D 123.

3.2 Definitions of Terms Specific to This Standard:

3.2.1 *core, n*—a mandrel of cardboard, foam or other material on which geosynthetics are rolled during manufactur-

ing to facilitate handling.

3.2.2 *supplier, n*—the person or organization from whom a geosynthetic is purchased or otherwise obtained.

3.2.2.1 *Discussion*—The supplier is frequently the manufacturer of the geosynthetic, but need not be. A supplier who is not the manufacturer is expected to ensure that the responsibilities of the manufacturer are fully met.

4. Significance and Use

4.1 For a geosynthetic to be properly used it must be adequately identified and packaged. It must be handled and stored in such a way that its physical property values are not degraded. Failure to follow good practice may result in the unnecessary failure of the geosynthetic in a properly designed application.

4.2 This guide is not intended to replace project specific storage, handling, identification, packaging, or installation requirements or quality assurance programs.

5. Procedure

5.1 Packaging and Identification:

5.1.1 When cores are required, use those that have a crushing strength sufficient to avoid collapse or other damage in normal use.

5.1.2 For geotextiles and geotextile composites, cover each roll with a wrapping material for protection from damage due to shipment, water, sunlight, or contaminants while being stored or handled in accordance with this guide.

5.1.3 Identify each roll with a durable, gummed label, or equivalent, either clearly readable on the roll packaging, on the outer wrap when no packaging is required, or on the inside of the core. Roll identification should include, at minimum, the name of the manufacturer or supplier, product or style number, and the unique roll number. Any other unique characteristics should be clearly identified. For rolls with no identification on the inside of the core, once the roll is unwrapped or samples taken, labels on the outer wrap or the roll packaging should be removed and placed inside the roll for traceability. All designations should be readable for clear identification.

NOTE 1—Rolls bundled or strapped as a single unit could be regarded as a single roll for identification purposes provided all the rolls remain as a single unit received by the end user.

5.2 Receiving and Storing at the Job Site:

5.2.1 While unloading or transferring the geosynthetic from one location to another, prevent damage to the wrapping and to

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² *Annual Book of ASTM Standards*, Vols 07.01.

³ *Annual Book of ASTM Standards*, Vol 04.09.