



Designation: D7557/D7557M – 09 (Reapproved 2013)^{ε1}

Standard Practice for Sampling of Expanded Polystyrene Geofoam Specimens¹

This standard is issued under the fixed designation D7557/D7557M; 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.

^{ε1} NOTE—Units information was editorially corrected in July 2013.

1. Scope

1.1 This practice provides guidance on the location, frequency, and method of sampling representative specimens from large blocks of Expanded Polystyrene (EPS) Geofoam.

1.2 This practice is not intended to replace professional judgments nor should this guide be applied without consideration of a project's many unique aspects.

1.3 The word “standard” in the title of this guide means only that this guide has been approved through the ASTM International consensus process.

1.4 The values stated in either SI units or inch-pound units are to be regarded separately as standard. The values stated in each system are not necessarily exact equivalents; therefore, to ensure conformance with the standard, each system shall be used independently of the other, and values from the two systems shall not be combined.

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, health, and environmental practices and determine the applicability of regulatory limitations prior to use.*

1.6 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.*

2. Referenced Documents

2.1 *ASTM Standards:*²

D4439 Terminology for Geosynthetics

¹ This practice is under the jurisdiction of ASTM Committee D35 on Geosynthetics and is the direct responsibility of Subcommittee D35.06 on Geosynthetic Specifications.

Current edition approved July 1, 2013. Published July 2013. Originally approved in 2009. Last previous edition approved in 2009 as D7557 – 09. DOI: 10.1520/D7557_D7557M-09R13E01.

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.

D6817 Specification for Rigid Cellular Polystyrene Geofoam

2.2 *ISO Standard:*³

ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories

3. Terminology

3.1 *Definitions*—For definitions of general geosynthetic terms used in this standard refer to Terminology, D4439.

3.2 *Definitions of Terms Specific to This Standard:*

3.2.1 *Geofoam Lot*—a definite quantity of EPS Geofoam manufactured under conditions of production that are considered uniform.

4. Summary of Practice

4.1 EPS Geofoam is commonly used in geotechnical applications when an extremely lightweight material is required. This practice provides guidance for sampling EPS Geofoam specimens for ongoing quality control compliance to Specification D6817.

5. Significance and Use

5.1 This practice provides guidance on sampling of EPS geofoam in order to determine compliance to Specification D6817.

6. Procedure

6.1 *Initial Sampling:*

6.1.1 Select samples of the EPS Geofoam from a first production lot to ensure compliance with Specification D6817. Selection of samples shall be as agreed on between purchaser and supplier.

6.1.2 Initial sampling shall include sampling of three sets of specimens. The sets shall be selected from different regions of a single EPS Geofoam block. The regions shall include the corners of the EPS Geofoam block and the center of the EPS Geofoam block as shown in Fig. 1.

NOTE 1—Some EPS Geofoam suppliers may cut larger sized blocks

³ Available from International Organization for Standardization (ISO), 1, ch. de la Voie-Creuse, CP 56, CH-1211 Geneva 20, Switzerland, <http://www.iso.org>.