



Designation: D8123 – 22

Standard Test Methods for Measuring the Opening Size of Geohazard Nettings¹

This standard is issued under the fixed designation D8123; 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 reappraisal. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reappraisal.

1. Scope

1.1 These test methods are index tests to measure the opening size of a geohazard netting, or its components, or both, as it has been manufactured. They can be used for estimating the largest size of rock or other object that may pass through an individual opening in the geohazard netting without transferring load to the wire mesh or wire net and may also be used for quality control purposes. These test methods are not used to determine the maximum size rock or other object that the geohazard netting may contain through mobilization of the netting's strength. These test methods do not apply to the measurement of the opening size of a geosynthetic, such as a turf reinforcement mat or geotextile, that may be manufactured as a composite system with the geohazard netting.

1.2 *Units*—The values stated in SI units are to be regarded as standard. The values given in parentheses are provided for information only and are not considered standard. Reporting of test results in units other than SI shall not be regarded as nonconformance with this standard.

1.3 All observed and calculated values shall conform to the guidelines for significant digits and rounding established in Practice [D6026](#).

1.3.1 For purposes of comparing a measured or calculated value(s) with specified limits, the measured or calculated value(s) shall be rounded to the nearest decimal of significant digits in the specified limit.

1.3.2 The procedures used to specify how data are collected/recorded or calculated in the standard are regarded as the industry standard. In addition, they are representative of the significant digits that generally should be retained. The procedures used do not consider material variation, purpose for obtaining the data, special purpose studies, or any considerations for the user's objective; and it is common practice to increase or reduce significant digits of reported data to be commensurate with these considerations. It is beyond the scope of this standard to consider significant digits used in analysis methods for engineering design.

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

1.5 *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

[D653 Terminology Relating to Soil, Rock, and Contained Fluids](#)

[D3740 Practice for Minimum Requirements for Agencies Engaged in Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction](#)

[D6026 Practice for Using Significant Digits and Data Records in Geotechnical Data](#)

3. Terminology

3.1 Definitions:

3.1.1 For definitions of common technical terms used in this standard, refer to Terminology [D653](#).

3.2 Definitions of Terms Specific to This Standard:

3.2.1 *geohazard netting opening, n* —in *geohazard mitigation*, the minimum clear distance between the wires or wire ropes forming the mesh structure.

3.2.2 *geohazard netting opening size, n* —in *geohazard mitigation*, the measurement of the minimum clear distance between the wires or wire ropes forming the opposite sides of the wire mesh or net opening.

3.3 Definitions:

3.3.1 *geohazard netting, n* —in *geohazard mitigation*, a material made typically from steel wire, or wire ropes, or both,

¹ This test method 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.

Current edition approved Jan. 15, 2022. Published January 2022. DOI: 10.1520/D8123-22.

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.