



Designation: ~~F373~~–~~13~~ ~~F373~~ – 13 (Reapproved 2017)

Standard Test Method for Embossed Depth of Resilient Floor Coverings¹

This standard is issued under the fixed designation F373; 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.

This standard has been approved for use by agencies of the U.S. Department of Defense.

1. Scope

1.1 Two important characteristics involved in the manufacture of resilient flooring relate to the smoothness of the wear surface and the hardness of the layers under the wear surface. The surfaces may vary from completely textured areas to portions that are flat but separated by textured areas. This test method covers flooring with these interrupted wear surfaces which are not supported by soft, cushioned layers.

1.2 The values stated in inch-pound units are to be regarded as standard. The values given in parentheses are mathematical conversions to SI units that are provided for information only and are not considered standard.

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

1.4 *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

E691 Practice for Conducting an Interlaboratory Study to Determine the Precision of a Test Method

F141 Terminology Relating to Resilient Floor Coverings

3. Terminology

3.1 For terminology relating to Resilient Floor Coverings, see Terminology **F141**.

4. Significance

4.1 This test method is designed to measure the vertical distance between any two levels on the face of the flooring, that is, between any two flat areas, between a flat area and any part of a textured area, or between two textured areas. This vertical distance may be of interest in itself or it may be applied to the questions of: (1) how much of the thickness of the flooring is available before the pattern is destroyed; or (2) how deep the depressed areas must be before valley printing ink is not walked on in normal traffic.

5. Apparatus

5.1 The apparatus shall consist of a comparator stand having a flat anvil base at least 6 in. (15 cm) square, equipped with a dial micrometer graduated to 0.001 in. (0.02 mm), and a hemispherical pressure foot $\frac{1}{32}$ in. (0.80 mm) in diameter. The foot shall exert a force of not more than 1 ozf (0.28 N) at any point in its travel. The force shall be obtained by an appropriate weight. The plunger of the gage shall be perpendicular to the anvil.

6. Test Specimen

6.1 The specimen shall be a piece of flooring at least 9 by 9 in. (230 by 230 mm).

¹ This test method is under the jurisdiction of ASTM Committee **F06** on Resilient Floor Coverings and is the direct responsibility of Subcommittee **F06.20** on Test Methods - Products Construction/Materials.

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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.