Designation: F 2055 – 00 (Reapproved 2008)

Standard Test Method for Size and Squareness of Resilient Floor Tile by Dial Gage Method[1]

This standard is issued under the fixed designation F 2055; 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 the determination of both dimensions (length and width) and squareness of resilient floor tile. This test method is intended for use with square tiles ranging from a nominal 9 in. (226 mm) to 40 in. (1016 mm) in dimension.

1.2 The values stated in inch-pound units are to be regarded as the 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. Significance and Use

2.1 Both dimension and squareness of resilient floor tile are important considerations, because installed flooring may exhibit an objectionable appearance when either or both characteristics deviate from established tolerances. This test method provides a means of determining actual dimensions and squareness by using a single apparatus and procedure.

3. Apparatus

3.1 The apparatus shall consist of four dial gages (referenced A through D in Fig. 1) and two reference index strips mounted on a flat bedplate in a configuration that, by rotation of the sample, allows the measurement of all four sides of resilient tile samples (see Fig. 1). One edge of the bedplate is elevated to create a test surface which is offset or tilted 15 ± 1 degrees from horizontal. This offset applies minimal pressure to the test specimen against the longer index strip to ensure repeatable measurement. A reference plate representing target tile size and squareness is used to zero all dial gages (see Fig. 2).

3.2 *Dial Gages*—The four dial gages are mounted in guide slots that are machined into the bedplate to allow for measurement of various tile sizes while remaining within 10% of the corner of the tile edge (for the two corner gages and one squareness gage) or within the central 10% of the tile edge (for the center gage only). Dial gages may report measurements using either electrical or mechanical means, but they shall be graduated to read 0.001 in. (0.02 mm) and have a stem travel greater than 0.25 in. (6 mm). The contact foot of the dial-gage stem shall be flat 0.50–0.75 ± 0.001 in. (12.7–19.1 mm ± 0.2 mm) in diameter and exert a total force of not more than 3.0 ±

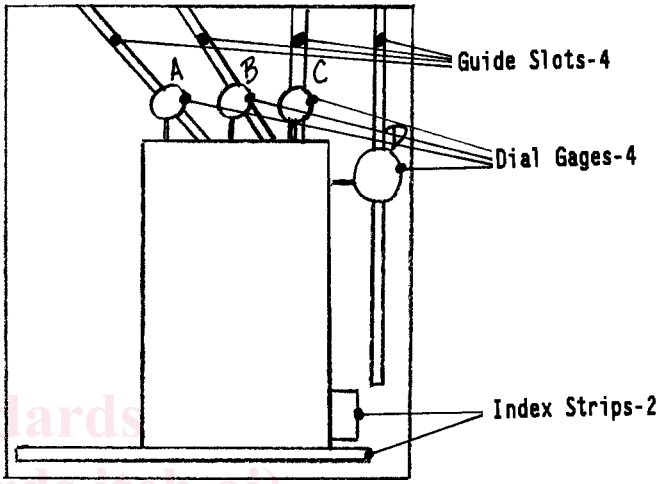
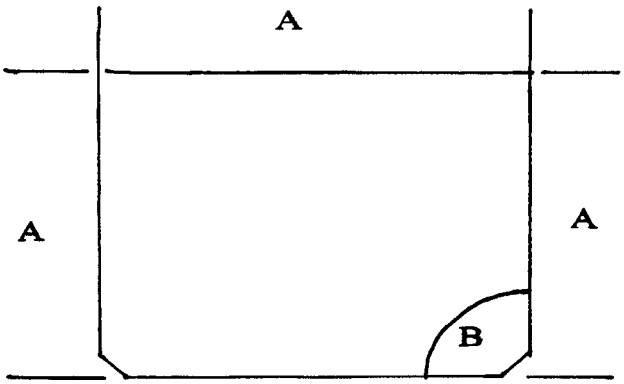


FIG. 1 Tile Measurement Apparatus



A: Tile Target Dimension ± 0.001 in. (0.02 mm)
B: 90° ± 10 s (1.57080 ± 0.00005 rad.)

FIG. 2 Reference Plate

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

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