



Standard Specification for Solid Vinyl Floor Tile¹

This standard is issued under the fixed designation F 1700; 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 specification covers solid vinyl² floor tiles that are monolithic, surface decorated or printed, and that have binder contents referenced in Table 1.

1.2 This type of floor covering is intended for use in commercial, light commercial, and residential buildings. General information and performance characteristics which determine serviceability and recommended use are included in this specification.

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.*

1.4 The values stated in inch-pound units are to be regarded as the standard. The values given in parentheses are provided for information only.

2. Referenced Documents

2.1 ASTM Standards:

- F 137 Test Method for Flexibility of Resilient Flooring Materials with Cylindrical Mandrel Apparatus³
- F 141 Terminology Relating to Resilient Floor Coverings³
- F 373 Test Method for Embossed Depth of Resilient Floor Covering³
- F 386 Test Method for Thickness of Resilient Flooring Materials Having Flat Surfaces³
- F 536 Test Method for Size of Resilient Floor Tile by Dial Gage Method³
- F 540 Test Method for Squareness of Resilient Floor Tile by Dial Gage Method³
- F 925 Test Method for Resistance to Chemicals of Resilient Flooring³
- F 1514 Test Method for Measuring Heat Stability of Resilient Vinyl Flooring by Color Change³
- F 1515 Test Method for Measuring Light Stability of Resilient Vinyl Flooring by Color Change³
- F 1914 Test Method for Short-Term Indentation and Re-

¹ This specification is under the jurisdiction of ASTM Committee F-6 on Resilient Floor Coverings and is under the direct responsibility of Subcommittee F06.80 on Specifications.

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² For solid vinyl definition, refer to Terminology F 141.

³ *Annual Book of ASTM Standards*, Vol 15.04.

TABLE 1 Minimum Binder Content

	Class I	Class II	Class III
Each ply or layer	34 %	34 %	...
Clear wear layer	...	...	90 %
Intermediate colored layer	...	...	34 %
Each base layer	...	...	34 %

sidual Indentation of Resilient Floor Covering³

2.2 Other Standards:

- Fed. Std. No. 501a (notice 1) Federal Test Method Standard for Floor Covering, Resilient, Non-Textile, Sampling and Testing
- Method 6211 Dimensional Stability⁴
- ANSI/ASQC Z1.4–1993 Sampling Procedures and Tables for Inspection by Attributes⁵

3. Classification

3.1 The vinyl floor tiles covered by this specification shall be classified as follows:

3.1.1 Class I—Monolithic Vinyl Tile.

3.1.1.1 Type A—Smooth Surface.

3.1.1.2 Type B—Embossed Surface.

3.1.2 Class II—Surface-Decorated Vinyl Tile.

3.1.2.1 Type A—Smooth Surface.

3.1.2.2 Type B—Embossed Surface.

3.1.3 Class III—Printed Film Vinyl Tile.

3.1.3.1 Type A—Smooth Surface.

3.1.3.2 Type B—Embossed Surface.

3.2 The embossed surfaces may or may not be grouted with ink.

4. Ordering Information

4.1 The purchaser shall state whether this specification is to be used, select the preferred options permitted herein, and include the following contract requirements on the purchase order:

- 4.1.1 Title, number, and date of this specification,
- 4.1.2 Class, type, and pattern number (Section 3),
- 4.1.3 Quantity in square feet, pieces, or cartons,
- 4.1.4 Size required (Section 6),

⁴ Available from Standardization Documents Order Desk, Bldg. 4, Section D, Robbins Ave., Philadelphia, PA 19111–5094, Attn: NPODS.

⁵ Available from American National Standards Institute, 11 West 42nd St., New York, NY 10036.