



Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring¹

This standard is issued under the fixed designation F710; 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 practice covers the determination of the acceptability of a concrete floor for the installation of resilient flooring.

1.2 This practice includes suggestions for the construction of a concrete floor to ensure its acceptability for installation of resilient flooring.

1.3 This practice does not cover the adequacy of the concrete floor to perform its structural requirements.

1.4 This practice covers the necessary preparation of concrete floors prior to the installation of resilient flooring.

1.5 This practice does not supersede in any manner the resilient flooring or adhesive manufacturer's written instructions. Consult the individual manufacturer for specific recommendations.

1.6 Although carpet tiles, carpet, wood flooring, coatings, films, and paints are not specifically intended to be included in the category of resilient floor coverings, the procedures included in this practice may be useful for preparing concrete floors to receive such finishes.

1.7 *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. See 7.1, 7.1.1, and 7.1.2 for specific warning statements.*

1.8 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.

2. Referenced Documents

2.1 ASTM Standards:²

¹ This practice is under the jurisdiction of ASTM Committee F06 on Resilient Floor Coverings and is the direct responsibility of Subcommittee F06.40 on Practices.

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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.

C109/C109M Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2-in. or [50-mm] Cube Specimens)

C472 Test Methods for Physical Testing of Gypsum, Gypsum Plasters and Gypsum Concrete

D4259 Practice for Abrading Concrete

D4263 Test Method for Indicating Moisture in Concrete by the Plastic Sheet Method

D4397 Specification for Polyethylene Sheeting for Construction, Industrial, and Agricultural Applications

E1155 Test Method for Determining F_F Floor Flatness and F_L Floor Levelness Numbers

E1486 Test Method for Determining Floor Tolerances Using Waviness, Wheel Path and Levelness Criteria

E1745 Specification for Plastic Water Vapor Retarders Used in Contact with Soil or Granular Fill under Concrete Slabs

F141 Terminology Relating to Resilient Floor Coverings

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F1869 Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride

F2170 Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes

NOTE 1—Specifications and test methods for cements and other related materials are found in ASTM Volume 04.01. Specifications and test methods for concretes and related materials are found in ASTM Volume 04.02.

2.2 ACI Guides:³

302.1R-06 Guide for Concrete Floor and Slab Construction
117R Standard Tolerances for Concrete Construction and Materials

2.3 Resilient Floor Covering Institute (RFCI):⁴

Recommended Work Practices for the Removal of Resilient Floor Coverings

³ Available from American Concrete Institute, 19150 Redford Station, Detroit, MI 48219.

⁴ Resilient Floor Covering Institute, 966 Hungerford Drive, Rockville, MD 20850.