



Standard Specification for Competition Wrestling Mats¹

This standard is issued under the fixed designation F1081; 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.

^{ε1} NOTE—Precision and Bias section was added and warning notes in Sections 8.3 and 11.2 were updated in September 2003.

1. Scope

1.1 This specification covers competition wrestling mats used at the high school and college levels. All mat constructions are included, except felt-core mats enclosed in sewn covers. The intended use of this standard is for the qualification of construction designs.

NOTE 1—The known constructions, as of the issuance of this specification are: (1) closed-cell foam cores with polyvinyl chloride (PVC) or PVC copolymer coatings, or both, which are integral parts of the mat; (2) closed-cell foam cores with attached fabric cover; (3) foam cores, either open- or closed-cell enclosed in sewn, loose covers, and (4) molded open-cell PVC foam with a dense skin on one surface which is an integral part of the mat.

NOTE 2—There is no equivalent ISO standard.

1.2 This specification covers mats used in the two major styles of wrestling: U.S. collegiate or high school, and international free style.

1.3 The values as stated in SI units are to be regarded as the standard. The values in parentheses are given for information only.

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 and health practices and determine the applicability of regulatory limitations prior to use. See Note 5 and Note 7 for specific hazards statements.*

2. Referenced Documents

2.1 ASTM Standards:²

¹ This specification is under the jurisdiction of ASTM Committee F08 on Sports Equipment and Facilities and is the direct responsibility of Subcommittee F08.12 on Gymnastics and Wrestling Equipment.

Current edition approved Aug. 10, 2003. Published September 2003. Originally approved in 1987. Last previous edition approved in 1997 as F1081 – 97. DOI: 10.1520/F1081-97R03E01.

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.

D412 Test Methods for Vulcanized Rubber and Thermoplastic Elastomers—Tension

D1056 Specification for Flexible Cellular Materials—Sponge or Expanded Rubber · ³

D1682 NO TITLE

F355 Test Method for Shock-Absorbing Properties of Playing Surface Systems and Materials

2.2 *National Collegiate Athletic Association Document:*⁴
NCAA Official Wrestling Rules

2.3 *U.S. Wrestling Federation Document:*⁵

International Wrestling Rules, Freestyle, and Greco-Roman

2.4 *National Federation of State High School Associations Document:*⁶

Official High School Wrestling Rules

3. Terminology

3.1 *Definitions of Terms Specific to This Standard:*

3.1.1 *coating*—Polyvinyl chloride (PVC) or PVC copolymer, or both, or other suitable polymeric materials.

3.1.2 *cure*—Evaporation of solvents from coating and coated foam mats only.

4. Classification

4.1 Classify mats in accordance with the style of wrestling being performed.

4.2 The classifications are:

4.2.1 *Type I*—U.S. collegiate or high school style wrestling.

4.2.2 *Type II*—International free style wrestling.

5. Significance and Use

5.1 The mats shall be constructed to yield the values listed in Table 1 throughout the mat area under the conditions of the manufacturer's warranty.

³ Withdrawn.

⁴ NCAA, Shawnee Mission, KN 66222.

⁵ US Wrestling Federation, 405 West Hall of Fame Ave., Stillwater, OK 74074.

⁶ National Federation of State High School Associations, P.O. Box 20626, Kansas City, MO 64195.