



Designation: F 2075 – 01

Standard Specification for Engineered Wood Fiber for Use as a Playground Safety Surface Under and Around Playground Equipment¹

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INTRODUCTION

The need for a systematic means of evaluating engineered wood fiber for use as a playground safety surface from the standpoint of particle size, consistency, purity, and ability to drain, has become a growing concern of the designers, operators, and manufacturers of engineered wood fiber systems. There has been no qualitative method to assess these parameters of engineered wood fiber (i.e., particle size, consistency, purity, and ability to drain) to insure its quality. Therefore, the goal of this specification is to establish a uniform means to measure the characteristics of engineered wood fiber in order to provide the potential buyer with performance specifications to select an engineered wood fiber suitable to meet the needs of playground designers, operators and manufacturers.

1. Scope

1.1 This specification establishes minimum characteristics for those factors that determine particle size, consistency, purity, and ability to drain.

1.2 Engineered wood fiber that meets the requirements of this specification must comply with Specification F 1292, if the surface is in the use zone as defined in Specification F 1487.

1.3 A sample of wood fiber that meets the requirements of this specification may be designated engineered wood fiber and be suitable for playground safety surfacing.

1.4 This specification does not imply that an injury cannot be incurred if the engineered wood fiber complies with this specification.

1.5 The following precautionary statement pertains to the test method portions only, in Section 7.4, 8.4, and 9.4 of this specification: *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.*

1.6 To meet the requirements of the Standard for Engineered Wood Fiber Used Under and Around Playground Equipment, the material shall perform as follows:

1.6.1 The material shall meet particle size requirements.

1.6.2 The material shall meet the requirement for metal particles.

1.6.3 The material shall meet the allowable heavy metal

concentrations considered hazardous to children.

1.6.4 The material shall meet the requirements of Specification F 1292.

2. Referenced Documents

2.1 ASTM Standards:

C 136 Test Method for Sieve Analysis of Fine and Coarse Aggregates²

D 1193 Specification for Reagent Water³

D 2217 Practice for Wet Preparation of Soil Samples for Particle-Size Analysis and Determination of Soil Constants⁴

E 11 Specification for Wire Cloth and Sieves for Testing Purposes⁵

F 963 Specification on Toy Safety⁶

F 1292 Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment⁶

F 1487 Specification for Playground Equipment for Public Use⁶

2.2 Other Standards and Methods:

Method 6010B Inductively Coupled Plasma-Atomic Emission Spectrometry (for the determination of heavy metal concentrations) as found in the Solid Waste Manual—SW846⁷

Method 7471A Mercury in Solid or Semisolid Waste

¹ This specification is under the jurisdiction of ASTM Committee F08 on Sports Equipment and Facilities and is the direct responsibility of Subcommittee F08.63 on Playground Surfacing Systems.

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² Annual Book of ASTM Standards Vol 04.02

³ Annual Book of ASTM Standards Vol 11.01

⁴ Annual Book of ASTM Standards Vol 04.08

⁵ Annual Book of ASTM Standards Vol 14.02

⁶ Annual Book of ASTM Standards Vol 15.07

⁷ Available from, The American Public Health Association, 1015 Fifteenth St., NW, Washington, D.C. 20005.