

Standard Specification for Synthetic Surfaced Running Tracks¹

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INTRODUCTION

There is a need to provide for the safety of athletes and durability of surfaces used for competition running. There are a number of sources of injury with regard to the performance of a running track surface and protection of athletes of all ages.

1. Scope

1.1 This specification establishes the minimum performance requirements and classification when tested in accordance with the procedures outlined within this specification. All documents referencing this specification must include classification required.

1.2 This specification does not imply that an injury cannot be incurred if the surface is found to be in compliance with this specification.

1.3 The values stated in SI units are to be regarded as standard. No other units of measurement are included in this standard.

2. Referenced Documents

2.1 ASTM Standards:²

- D297 Test Methods for Rubber Products—Chemical Analysis
- D2616 Test Method for Evaluation of Visual Color Difference With a Gray Scale
- D2859 Test Method for Ignition Characteristics of Finished Textile Floor Covering Materials
- D2950 Test Method for Density of Bituminous Concrete in Place by Nuclear Methods
- E177 Practice for Use of the Terms Precision and Bias in ASTM Test Methods
- E303 Test Method for Measuring Surface Frictional Properties Using the British Pendulum Tester

¹ This specification is under the jurisdiction of ASTM Committee F08 on Sports Equipment, Playing Surfaces, and Facilities and is the direct responsibility of Subcommittee F08.52 on Miscellaneous Playing Surfaces.

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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.

E691 Practice for Conducting an Interlaboratory Study to Determine the Precision of a Test Method

E1131 Test Method for Compositional Analysis by Thermogravimetry

G154 Practice for Operating Fluorescent Ultraviolet (UV) Lamp Apparatus for Exposure of Nonmetallic Materials

2.2 Other Standards:

DIN 18035 Part 6 A Standard for Sports Grounds, Synthetic Surfacing, Requirements, Test, Maintenance³

IAAF Performance Specifications for Synthetic Surfaced Athletics Tracks (Outdoors)⁴

3. Terminology

3.1 Definitions of Terms Specific to This Standard:

3.1.1 *compliance, n*—a test result that falls within the specified range, meets a stated minimum value or achieves a “pass” rating on a test with a pass/fail result.

3.1.2 *“D” area, n*—an integral part of the synthetic surfacing located within the oval.

3.1.3 *EPDM components, n*—the residual elements of an EPDM rubber product once the fillers and plasticizers have been eliminated.

3.1.4 *EPDM rubber product, n*—a product comprised of organic and inorganic materials with a minimum of 20 % and a maximum of 26 % of ethylene propylene-diene-saturated polymethylene main chain along with other organic and inorganic components.

3.1.5 *flat, n*—an area that by design is to have a finished slope of 0.5 % or less.

3.1.6 *recycled black EPDM rubber product, n*—crumbs or granules manufactured through ambient or cryogenic grinding or crushing of post industrial scrap (typically automotive),

³ Available from Beuth Verlag GmbH (DIN-- DIN Deutsches Institut für Normung e.V.), Burggrafenstrasse 6, 10787, Berlin, Germany.

⁴ Available from IAAF Headquarters, 17 rue Princesse Florestine—BP 359, MC-98007, Monaco Cedex. <http://www.iaaf.org>