



Standard Specification for Helmets Used in Skateboarding and Trick Roller Skating¹

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1. Scope

1.1 This specification covers performance requirements for helmets to be used in the activities of skateboarding and trick roller skating.

1.2 All testing and requirements of this specification shall be in accordance with Test Methods F1446, except where noted herein.

1.3 *Partial utilization of this specification is prohibited. Any statement of compliance with this specification shall be a certification that the headgear meets all of the requirements of the specification in their entirety. A headgear that fails to meet any one of the requirements of this specification is considered to have failed the specification, and shall not be sold with any indication that it meets parts of the specification.*

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

1.5 *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.*

2. Referenced Documents

2.1 *ASTM Standards:*²

F1446 Test Methods for Equipment and Procedures Used in Evaluating the Performance Characteristics of Protective Headgear

3. Terminology

3.1 *Definitions of Terms Specific to This Standard:*

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 F08.53 on Headgear and Helmets.

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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.

3.1.1 *trick roller-skating, n*—aggressive roller skating using quads or in-lines and involving such things as jumping, sliding sideways, or skating on ramps or stairs.

3.1.2 *in-lines, n*—roller skates with all wheels on each skate arranged along a single longitudinal line.

3.1.3 *quads, n*—roller skates with four wheels on each skate arranged in a rectangular pattern.

4. Labels and Warnings

4.1 Shall meet the requirements of Test Methods F1446.

4.2 Shall have the words “For skateboarding or trick roller skating” inscribed on one of the interior permanent labels.

4.3 Headgear that complies with this and other standards may proclaim uses as certified by the manufacturer.

5. Marking the Test Line

5.1 The test line is shown in Fig. 1 and shall be marked in accordance with Test Methods F1446.

6. Conditioning and Number of Samples

6.1 Shall be in accordance with Test Methods F1446.

6.2 The test requires a minimum of four samples of each shell/liner combination.

7. Retention System Testing

7.1 Retention system tests shall be performed before impact testing.

7.2 The ambient helmet shall be subjected to the Roll-Off Test of Test Methods F1446 using a 4 kg drop mass from a height of 0.6 m.

7.3 The retention system shall remain intact and the helmet shall remain on the headform.

7.4 The hot, cold, and wet helmets shall be subjected to the Dynamic Strength Retention Test of Test Methods F1446 using a 4 kg drop mass from a height of 0.6 m.

7.5 The retention system shall remain intact without elongating more than 30 mm.

8. Impact Sites and Projections

8.1 Impact sites are described in Test Methods F1446.