



Standard Specification for Helmets Used for BMX Cycling¹

This standard is issued under the fixed designation F2032; 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 specification covers performance requirements for helmets used in BMX cycling. Studies have shown higher risk to the head and face for this sport as compared to recreational street riding; therefore, this specification requires impact protection over a larger area of the head than Specification F1447 and the CPSC standard. This specification also provides performance criteria for helmets equipped with chin bars.

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 with faceguard meets all of the requirements of the specification in their entirety. A headgear with faceguard 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 Headgear designed to comply with this and other standards may proclaim uses as certified by the manufacturer.

1.5 This standard is subject to revision at any time by ASTM. It must be reviewed every five years and if not revised either reapproved or withdrawn. References to the standard must include the version date. No references to a version that has been replaced or withdrawn shall be placed on any product or its packaging manufactured more than 24 months after the effective revision or withdrawal date. Go to astm.org to verify the latest version of this standard.

1.6 The values stated in SI units are to be regarded as standard.

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, health, and environmental practices and determine the applicability of regulatory limitations prior to use.*

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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1.8 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.*

2. Referenced Documents

2.1 ASTM Standards:²

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

F1447 Specification for Helmets Used in Recreational Bicycling or Roller Skating

3. Labels and Warnings

3.1 Shall meet the requirements of Test Methods F1446.

3.2 Shall have the words “For BMX bicycle riding and racing.”

4. Marking the Test Line

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

5. Conditioning and Number of Samples

5.1 Shall be in accordance with Test Methods F1446.

5.2 The test requires a minimum of four samples of each shell/liner combination, with a fifth sample required for full face helmets with a chin bar.

6. Retention System Testing

6.1 Retention system tests shall be performed before impact testing.

6.2 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.

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

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.