



Designation: F3030 – 13

# Standard Test Method for Snowboards with a Channel-Mounting System and Removable Inserts<sup>1</sup>

This standard is issued under the fixed designation F3030; 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 reappraisal. A superscript epsilon ( $\epsilon$ ) indicates an editorial change since the last revision or reappraisal.

## 1. Scope

1.1 This test method covers the requirements and test method for snowboards with channel-mounting systems on which bindings are attached to the board by means of a removable insert and screws.

1.2 This test method does not apply to snowboards for children with a mass less than 25 kg. It contains data for the manufacturer of snowboards, bindings, and retention devices concerning dimensions, tests, and other specifications for the binding mounting area.

1.3 For snowboards with fixed inserts, see ISO 10958-2.

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:*<sup>2</sup>

[E177 Practice for Use of the Terms Precision and Bias in ASTM Test Methods](#)

[E691 Practice for Conducting an Interlaboratory Study to Determine the Precision of a Test Method](#)

2.2 *ISO Standards:*<sup>3</sup>

[ISO 68-1 ISO general purpose screw threads-Basic profile-Part 1: Metric screw threads](#)

[ISO 10958-2 Requirements and test methods for snowboards with fixed inserts](#)

<sup>1</sup> This test method is under the jurisdiction of ASTM Committee F27 on Snow Skiing and is the direct responsibility of Subcommittee F27.30 on Skiing and Snowboarding Equipment.

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<sup>2</sup> 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.

<sup>3</sup> Available from International Organization for Standardization (ISO), 1, ch. de la Voie-Creuse, CP 56, CH-1211 Geneva 20, Switzerland, <http://www.iso.org>.

## 3. Terminology

3.1 *Definitions:*

3.1.1 *channel, n*—reusable metal attachment slot permanently fixed in the snowboard at the time of manufacture used to mount the bindings to the snowboard via removable threaded inserts.

3.1.2 *insert, n*—reusable commonly threaded attachment point, removable from the channel in the snowboard, used to mount the bindings to the snowboard.

3.1.3 *retention strength, n*—axial pull-out force of an insert in a snowboard tested in accordance with 5.1 and 8.1.

3.1.4 *screw thread engagement, n*—number of threads engaged by a standard screw in an insert.

## 4. Significance and Use

4.1 This test method is intended for use in evaluating the binding to snowboard insert retention strength resulting from use. This test method may also be used to compare the durability of different materials and designs. This test method references ISO 10958-2, which is considered satisfactory for acceptance testing insert retention for snowboards.<sup>3</sup>

## 5. Apparatus

5.1 *Retention Strength Test Apparatus*—Universal test machine (UTM), with a pull-out device according to Fig. 1, having a minimum load range of 10 kN.

5.2 The pullout device should consist of:

5.2.1 A rigid steel attachment plate (A) with one hole of 6.5-mm diameter,

5.2.2 An insert (B) located in the snowboard channel and bolted through the hole of (A),

5.2.3 A universal joint (C) that is connected to the attachment plate and the clamping device of the test machine, and

5.2.4 A snowboard support (D) with two rollers and span of 200 mm between them.

## 6. Specifications for Design of Snowboard Channel and Insert

6.1 Inserts shall have an M6 × 1.0, Class 6H internal thread with standard tolerances in accordance with ISO 68-1.