



Designation: F 1062 – 97 (Reapproved 2003)

## Standard Test Method for Verification of Ski Binding Test Devices<sup>1</sup>

This standard is issued under the fixed designation F 1062; 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 ( $\epsilon$ ) indicates an editorial change since the last revision or reapproval.

### 1. Scope

1.1 This test method defines procedures to determine agreement between a standard apparatus for measuring the release moments of ski bindings and a test device of unspecified design.

1.2 This test method also covers procedures for checking agreement between individual devices of identical but unspecified design, intended for determining the release moments of ski bindings.

1.3 Values expressed in newton meters, newtons, and centimeters are to be regarded as the standard.

1.4 Values expressed in units of torque may be converted to the appropriate force values when devices which indicate force are used.

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>

**E 4** Practices for Force Verification of Testing Machines

**E 29** Practice for Using Significant Digits in Test Data to Determine Conformance With Specifications

**E 74** Practice for Calibration of Force-Measuring Instruments for Verifying the Force Indication of Testing Machines

**E 456** Terminology for Relating to Quality and Statistics

**F 504** Test Method for Measuring Quasi-Static Release Moments of Alpine Ski Bindings

**F 1061** Specification for Ski Binding Test Devices

**F 1063** Practice for Functional Inspections and Adjustments for Alpine Ski/Boot/Binding Systems

**F 1064** Practice for Sampling and Inspection of Complete and Incomplete Alpine Ski/Binding/Boot Systems in Rental Applications

### 3. Terminology

3.1 *Definitions*—The terms and abbreviations used in this document are defined in accordance with Test Method **F 504**, Specification **F 1061**, Practice **E 456**, Methods **E 4** and **E 74**.

3.2 *Definitions of Terms Specific to This Standard:*

3.2.1 *a*—difference between the calibration of the specific device tested for agreement with an instrument of the type described in Test Method **F 504** and the calibration of an individual device of the same design.

3.2.2 *d*—agreement between the test device and the standard apparatus described in Test Method **F 504** and Section 9 of this test method.

3.2.3 *r*—imprecision of the device tested.

3.2.4 *operating range (OR)*—the portion of the full range of the device which may be employed in accordance with Practices **F 1063** and **F 1064**. OR shall be defined by the user in accordance with the Inspection section of Annex 2 of Practices **F 1063** and **F 1064**.

3.2.5 *recommended operating range (ROR)*—the portion of the full range of the test device that is in accordance with Proposed Specification P 193.

3.2.6 *reference binding*—a binding or group of bindings used in the verification of a test device.

3.2.7 *standard apparatus*—laboratory equipment including a test frame and instrumentation used as the basis for comparison with the test device.

3.2.8 *test device*—a machine for determining the release moments of ski/boot/binding systems.

3.3 *Symbols:*

3.3.1  $M_z$ —a moment in a horizontal plane as shown in the figure in Test Method **F 504**, which illustrates terminology relating to the boot/ski system.

3.3.2  $M_y$ —a moment in a vertical plane with the ski as shown in the figure in Test Method **F 504**, which illustrates terminology relating to the boot/ski system.

<sup>1</sup> This test method is under the jurisdiction of ASTM Committee F27 on Snow Skiing and is the direct responsibility of Subcommittee F27.10 on Binding Test Procedures.

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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.