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Standard Specification for Ski Binding Test Devices¹

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INTRODUCTION

The purpose of this specification is to aid in the selection of ski binding test devices appropriate for the needs of ski equipment sales and rental facilities. Devices which meet this specification exceed the requirements of Practices F1063 and F1064. Therefore, a device that does not meet this specification may still satisfy the requirements of Practices F1063 and F1064.

1. Scope

1.1 This specification covers requirements for devices used to determine the release moments of ski equipment in retail sales and rental facilities.

1.2 This specification is applicable to the manufacture, repair, and calibration of such devices.

1.3 This specification is to be used with Test Method F1062.

1.4 The values expressed in newton metres, newtons, and centimetres are to be regarded as the standard.

1.5 The values expressed in units of torque may be converted to the appropriate force values when devices that indicate force are used.

2. Referenced Documents

- 2.1 *ASTM Standards*:²
- E456 Terminology Relating to Quality and Statistics
 - F504 Test Method for Measuring the Quasi-Static Release Moments of Alpine Ski Bindings
 - F939 Practice for Selection of Release Torque Values for Alpine Ski Bindings
 - F1062 Test Method for Verification of Ski Binding Test Devices
 - F1063 Practice for Functional Inspections and Adjustments of Alpine Ski/Binding/Boot Systems
 - F1064 Practice for Sampling and Inspection of Complete

and Incomplete Alpine Ski/Binding/Boot Systems in Rental Applications

2.2 *ISO Standard*:

8061 Method for the Selection of Release Torque Values³

3. Terminology

3.1 The terms and abbreviations used in this document are defined in Terminology E456, Test Method F504, and Test Method F1062.

3.2 Terms and abbreviations used in this document are repeated here for convenience. Refer to Test Method F1062 for equations.

3.2.1 *a*—the difference between the calibration of the specific device tested for agreement with an instrument of the type described in Test Method F504, and the calibration of an individual device of the same design.

3.2.2 *d*—the agreement between the test device and the standard apparatus described in Test Method F504.

3.2.3 *r*—the imprecision of the device tested.

3.2.4 *Recommended Operating Range (ROR)*—the portion of the full range of the test device which is in compliance with this specification.

3.2.5 *Operating Range (OR)*—the portion of the full range of the test device which may be employed in compliance with Practices F1063 and F1064. OR shall be defined by the user in accordance with the section on Inspection in Annex A1 of Practice F1063, or in the section on Inspection in Annex 2 of Practice F1064.

3.2.6 *M1*—a moment in a horizontal plane as defined in Fig. 1b of Test Method F504.

3.2.7 *M3*—a moment in a vertical plane with the ski as defined in Fig. 1b of Test Method F504.

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

¹ This specification 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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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 Available from American National Standards Institute, 11 W. 42nd St., 13th Floor, New York, NY 10036.