



## Specification for Ski Binding Test Devices<sup>1</sup>

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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 ASTM Practices F 1063, F 1064, and F 1065. Therefore, a device that does not meet this specification may still satisfy the requirements of ASTM Practices F 1063, F 1064, and F 1065.

### 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 F 1062.

1.4 The values expressed in deka-Newton metres, deka-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 which indicate force are used.

### 2. Referenced Documents

#### 2.1 ASTM Standards:

E 456 Terminology Relating to Quality and Statistics<sup>2</sup>

F 504 Test Method for Measuring the Quasi-Static Release Moments of Alpine Ski Bindings<sup>3</sup>

F 939 Practice for Selection of Release Torque Values for Alpine Ski Bindings<sup>3</sup>

F 1062 Test Method for Verification of Ski Binding Test Devices<sup>3</sup>

F 1063 Practice for Functional Inspections and Adjustments of Alpine Ski/Boot/Binding Systems<sup>3</sup>

F 1064 Practice for Sampling and Inspection of Complete Alpine Ski/Boot/Binding Systems in Rental Applications<sup>3</sup>

F 1065 Practice for Inspection of Incomplete Alpine Ski/Boot/Binding Systems in Rental Applications<sup>3</sup>

<sup>1</sup> This specification is under the jurisdiction of ASTM Committee F-27 on Snow Skiing and is the direct responsibility of Subcommittee F27.10 on Binding Test Procedures.

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<sup>2</sup> *Annual Book of ASTM Standards*, Vol 14.02.

<sup>3</sup> *Annual Book of ASTM Standards*, Vol 15.07.

#### 2.2 ISO Standard:

8061 Method for the Selection of Release Torque Values<sup>4</sup>

### 3. Terminology

3.1 The terms and abbreviations used in this document are defined in Practice E 456, Method F 504, and Test Method F 1062.

3.2 Terms and abbreviations used in this document are repeated here for convenience. Refer to Test Method F 1062 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 Method F 504, 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 Method F 504.

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 F 1063, F 1064, and F 1065. OR shall be defined by the user in accordance with the section on Inspection in Annex A1 of Practice 1063, or in the section on Inspection in Annex 2 of Practice F 1064.

3.2.6 *M1*—a moment in a horizontal plane as defined in Fig. 1b of Method F 504.

3.2.7 *M3*—a moment in a vertical plane with the ski as defined in Fig. 1b of Method F 504.

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

3.2.9 *standard apparatus*—laboratory equipment including

<sup>4</sup> Available from American National Standards Institute, 11 W. 42nd St., 13th Floor, New York, NY 10036.