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**Winter-sports equipment — Test  
devices for the setting of the  
functional unit ski/boot/binding —  
Requirements and tests**

*Matériel de sports d'hiver — Dispositifs d'essai pour le réglage de  
l'unité fonctionnelle ski/chaussure/fixation — Exigences et essais*

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## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see [www.iso.org/directives](http://www.iso.org/directives)).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see [www.iso.org/patents](http://www.iso.org/patents)).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: [Foreword - Supplementary information](#)

The committee responsible for this document is ISO/TC 83, *Sports and recreational equipment*, Subcommittee SC 4, *Snowsports equipment*.

This second edition cancels and replaces the first edition (ISO 11110:1997), which has been technically revised.

# Winter-sports equipment — Test devices for the setting of the functional unit ski/boot/binding — Requirements and tests

## 1 Scope

This International Standard specifies the tests and requirements for devices used to determine the release moments of ski-bindings in retail sales, rental, and other facilities.

It specifies requirements for the design accuracy, operation, maintenance, and calibration of the test devices used for determining binding release settings.

For other requirements, see appropriate standards (e.g. standards on electronic measuring devices, safety of electrical apparatus, etc.).

This International Standard is to be used in conjunction with ISO 9462 and ISO 8061.

## 2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 554, *Standard atmospheres for conditioning and/or testing — Specifications*

ISO 9462, *Alpine ski-bindings — Requirements and test methods*

ISO 9838, *Alpine and touring ski-bindings — Test soles for ski-binding tests*

## 3 Requirements

### 3.1 General requirements

#### 3.1.1 Design

**3.1.1.1** Setting devices shall be capable of determining the actual release moments of common ski-bindings on the market. They are designed for practical use by retail, rental, and other facilities.

**3.1.1.2** The device shall be capable of completely releasing the boot from the binding.

**3.1.1.3** In order to avoid the skis elasticity to lead to measurement errors, the clamping of the ski shall be as close as possible to the binding. It shall be possible to apply the release load smoothly and without interruption until the maximum release moment has been reached.

The release shall be quasi-static such that the total time required shall not be more than 5 s not less than 2 s.

The speed at the boot toe or heel shall never exceed 20 mm/s, from the beginning of the release process up to the time when the maximum release value is reached.

**3.1.1.4** The device shall be capable of indicating the peak release moment after the test is over.