INTERNATIONAL STANDARD

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<text> Alpine ski-bindings — Requirements



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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).

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).

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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 fourth edition cancels and replaces the third edition (ISO 9462:2006 and ISO 9462:2006/Amd.1:2009), which has been technically revised with the following changes:

- <u>Clause 3</u> new definitions <u>3.5</u>, <u>3.6</u> and <u>3.7</u>;
- deletion of Table 1 "Test ski characteristics";
- modification of <u>5.1</u>;
- addition of new <u>6.3.3</u> "Release with ski deflection";
- new <u>Table 3</u> "Deflection of ski";
- addition of new <u>6.3.4</u> "Release under combined loading";
- in <u>6.6.2</u> deletion of ski lengths;
- addition of new <u>Clause 7</u> "Marking";
- addition of new informative <u>Annex A</u> "Additional information to conduct tests according to test method A;
- addition of new informative <u>Annex B</u> "Fixtures and load configurations necessary for conducting tests using test method B".

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Alpine ski-bindings — Requirements and test methods

1 Scope

This International Standard specifies the main characteristics of ski-bindings and describes, as an example, the test methods A and B.

This International Standard applies to ski-bindings for alpine skiing for children, juniors, and adults.

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 5355, Alpine ski-boots — Requirements and test methods

ISO 8061, Alpine ski-bindings — Selection of release torque values

ISO 9465, Alpine ski-bindings — Lateral release under impact loading — Test method

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

ISO 11087, Alpine ski-bindings — Retention devices — Requirements and test methods

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1

alpine ski-binding

system to ensure firm connection between boot and ski, fixing the heel low for downhill skiing

Note 1 to entry: The system releases the boot from the ski when certain loads reach preset values.

3.2

release

detachment of the boot from the ski by release of the mechanism that ensures the connection between boot and ski

Note 1 to entry: This release is only considered effective when all the loads due to the boot/ski connection have dropped to values which present no danger to the skier.

3.3

release values

maximum values of torques M_z and M_y caused at the boot/ski connection by the two movements of torsion and forward bending

Note 1 to entry: For the torques M_z and M_y , see Figure 1.

Note 2 to entry: These values are generally adjustable on current bindings which have a scale and an indicator displaying the setting level.

Note 3 to entry: In the present state of the art, bindings are designed at least to release in torsion $(\pm M_z)$ and in forward bending $(\pm M_v)$.