INTERNATIONAL STANDARD

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> Fifth edition 2023-01

Alpine ski-bindings — Requirements and test methods

ation. Fixations de skis alpins — Exigences et méthodes d'essai



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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).

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

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 83, *Sports and other recreational facilities and equipment*, Subcommittee SC 4, *Snowsports equipment*.

This fifth edition cancels and replaces the fourth edition (ISO 9462:2014), which has been technically revised.

The main changes are as follows:

- modification of definitions and addition of notes to entry in 3.1.1, 3.1.2 and 3.1.3;
- addition of <u>3.1.4</u>;
- addition of new Figure 2 "Application of $F_{v,toe}$ and $F_{z,heel}$ ";
- modification of 4.3;
- addition of new <u>6.8</u> "Compatibility to boot in accordance with ISO 23223";
- addition of new <u>Figure 8</u> "Clearance area around the antifriction device (AFD)";
- addition of new <u>Table 4</u> "Compatibility marking";
- correction of scale of <u>Figure D.2</u> "Tolerances on M_v ";
- addition of new <u>Annex E</u> "Test body in accordance with ISO 9838 for compatibility test".

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

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Alpine ski-bindings — Requirements and test methods

1 Scope

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

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

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. 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 torques 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

ISO 23223, Alpine ski boots with improved walking soles — Interface with alpine ski-bindings – Requirements and test methods

3 Terms and definitions

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

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at https://www.iso.org/obp
- IEC Electropedia: available at https://www.electropedia.org/

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.

3.1.1

binding of type C

type C binding

binding which can be adjusted to at least the following *release values* (3.3):

- a) $M_z = 10 \text{ Nm};$
- b) $M_{\rm v} = 37 \text{ Nm}$

Note 1 to entry: Bindings of type C are suitable for boot soles conforming to type C of ISO 5355.

Note 2 to entry: Bindings of type C for boots with improved walking soles are suitable either for boot soles conforming to type C of ISO 5355 or for boot soles conforming to type C of ISO 23223.