SLOVENSKI STANDARD
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Varnostne vezi za alpske smuči - Zahteve in preskusne metode

Alpine ski-bindings - Requirements and test methods

Fixations de skis alpins -- Exigences et méthodes d'essai

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Alpine ski-bindings — Requirements and test methods

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).

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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 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:

— Clause 3 new definitions 3.5, 3.6 and 3.7;

— deletion of Table 1 "Test ski characteristics";

— modification of 5.1;

— addition of new 6.3.3 "Release with ski deflection";

— new Table 3 "Deflection of ski";

— addition of new 6.3.4 "Release under combined loading";

— in 6.6.2 deletion of ski lengths;

— addition of new Clause 7 "Marking";

— addition of new informative Annex A "Additional information to conduct tests according to test method A;

— addition of new informative Annex B "Fixtures and load configurations necessary for conducting tests using test method B".

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 ($\pm M_y$).

3.4
reference value
value, adjusted after a series of tests, used as a basis of comparison to evaluate the behaviour of the binding during the tests

Note 1 to entry: See 6.3.1

3.5
combined loading
loading of the sole or ski in several directions at the same time, where one of the loads is the torque M_z progressively applied to the sole until the binding releases

Note 1 to entry: Each of the load combinations simulates a given situation, chosen within an infinite field of possibilities and simplified for the purpose of the tests. The main simplification being that the loads applied additionally to the release torque M_z are held constant in value and direction during all the release process.

Note 2 to entry: For the loading, see Figure 1 and Table 1.

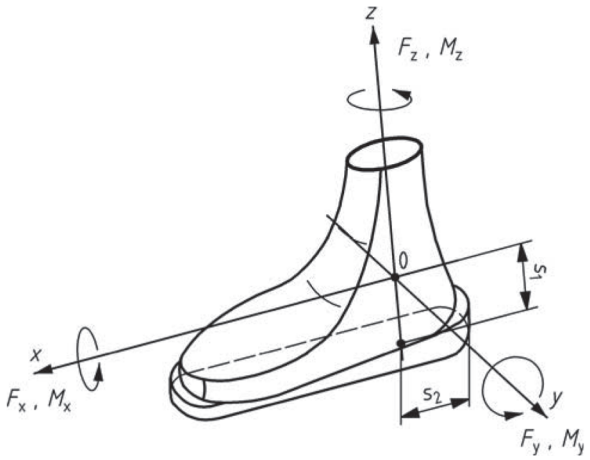

Figure 1 — Definition of the loads and torques

Table 1 — Coordinates of reference point 0

Dimensions in millimetres

	Type of binding		
	C (see 3.8)	CA (see 3.9)	A (see 3.10)
s_1	85	100	100
s_2	70	80	80

3.6
additional loads
loads applied additionally to the release torque M_z

3.7
deflection of the ski
deflection of the ski perpendicular to its gliding surface

Note 1 to entry: In practice, the deflection of the ski depends at the same time on the loading situation and the profile of the snow-surface ("geometrical" situation). In test simplification, only the "geometrical" situation is simulated.

3.8
type C bindings
bindings suitable for boot soles complying with type C of ISO 5355, which can be adjusted to at least the following release values: