

SLOVENSKI STANDARD oSIST ISO 9465:2013

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Varnostne vezi za alpske smuči - Bočno odpiranje pri udarni obremenitvi - Preskusna metoda

Alpine ski-bindings -- Lateral release under impact loading -- Test method

Fixations de skis alpins -- Déclenchement latéral sous choc -- Méthode d'essai

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INTERNATIONAL STANDARD

ISO 9465

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

Fixations de skis alpins — Déclenchement latéral sous choc — Méthode d'essai



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Foreword

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International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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.

ISO 9465 was prepared by Technical Committee ISO/TC 83, *Sports and recreational equipment*, Subcommittee SC 4, *Snowsports equipment*.

This second edition cancels and replaces the first edition (ISO 9465:1991), which has been technically revised.

Introduction

This International Standard is one of a series dealing with the safety of ski-bindings. The other current International Standards are ISO 8061 and ISO 9462.

National standards, complying with legal regulations, may be more extensive, for instance covering combined loading and ski deflection. International Standards are being prepared that address these aspects. To verify the safety of ski-bindings, it is necessary to use all International Standards of the series and additionally the national standards covering those aspects which are not yet standardized internationally.

The release and retention functions of ski-bindings are multifaceted and complex. The functions involve combinations of static and dynamic loading in varied release directions of the boot relative to the ski. This impulsive test method evaluates an important ski-binding function, but it should not be interpreted as conclusively evaluating the binding impulse release behaviour in general. The test evaluates the release and retention function of the binding in a single mode of binding release; other static and dynamic retention and release tests are not excluded by this standard test.

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

1 Scope

This International Standard defines an impact test for establishing the maximum impulse for retention of a test ski on the test sole in the lateral direction.

The test provides a measure of the release/retention boundary for lateral release of a ski-binding for adults (type A according to ISO 9462) at a particular ski-binding setting.

The test method is designed to simulate the lateral impulsive loading during skiing located at the front part of the ski. The test permits the evaluation of a ski-binding's release and retention properties under expected loading rates. The test permits comparison of the release caused by lateral impulse to the ski for different binding system designs.

2 Normative references

The following referenced documents are indispensable for the application 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 9462:—¹⁾, Alpine ski-bindings — Requirements and test methods

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

3 Terms and definitions

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

3.1

contact material

material interface between the pendulum contact tip and the side wall of the test ski

NOTE The contact material specification in conjunction with the pendulum release angle determines the duration and the magnitude of the impulse force during the impact test.

3.2

impact force

force, the duration of application of which is short compared with the response time of the ski-binding/pendulum system

¹⁾ To be published.

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3.3

impulse

product of mass and velocity of the impact parts

NOTE According to Newton's second law of motion:

$$m \times v = F \times \Delta t$$

where

- F is the force;
- Δt is the period of time of the contact of force;
- *m* is the mass;
- *v* is the velocity of the impact.

3.4

test ski

aluminium U-shaped channel

NOTE 1 The tip and the tail of the test ski refer to the extreme points along the length of the channel in front of and behind the ski-binding that is mounted on the channel.

NOTE 2 The test ski is described in 4.2.1.

3.5

test sole

sole in accordance with ISO 9838, backed by a steel plate

NOTE The test sole is described in 4.2.2.

3.6

goniometer

instrument used to measure the angle of the pendulum shaft relative to the vertical equilibrium axis at the pendulum bearing

3.7

pendulum shaft

long, circular cylinder connecting the pendulum block to the pendulum bearing

3.8

contact tip

steel hemispherical tip on the pendulum bearing

3.9

pendulum block

rigid mass on the free end of the pendulum shaft, upon which the contact tip is rigidly mounted

3.10

impact location

point on the test ski side wall where the impact occurs

3.11

binding release

condition whereby the binding has released the test ski from the test boot

NOTE Binding release is defined by either

a) the test ski separating completely from the test boot, or