

SLOVENSKI STANDARD SIST ISO 9838:1995

01-december-1995

Varnostne vezi za alpske smuči - Testni vložek za preskušanje varnostnih vezi

Alpine ski-bindings -- Test soles for ski-binding tests

Fixations de skis alpins — Semelles d'essai pour les essais de fixations de skis

Ta slovenski standard je istoveten z: ISO 9838:1991

SIST ISO 9838:1995

https://standards.iteh.ai/catalog/standards/sist/c7ede579-1458-4371-8d5c-9fc2fafea2d4/sist-iso-9838-1995

ICS:

97.220.20 Oprema za zimske športe Winter sports equipment

SIST ISO 9838:1995 en

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SIST ISO 9838:1995

INTERNATIONAL STANDARD

ISO 9838

First edition 1991-07-15

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ISO 9838:1991(E)

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.

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.

International Standard ISO 9838 was prepared by Technical Committee i ISO/TC 83, Sports and recreational equipment.

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International Organization for Standardization Case Postale 56 • CH-1211 Genève 20 • Switzerland

Printed in Switzerland

Alpine ski-bindings — Test soles for ski-binding tests

Scope

This International Standard defines a test sole representing a ski-boot, or at least the bottom part of it, to be used for testing alpine ski-bindings for alpine skiing in accordance with ISO 9462 and ISO 9465.

Ski-boots have their own International Standard (ISO 5355), which allows relatively large tolerances in defining the test sole which are generally believed to be suitable for on-slope use by skiers but too large for reproducible laboratory measurements.

Definitions

For the purposes of this International Standard. the definitions given in ISO 5355 and the following definitions apply.

- 3.1 test sole type A: A test sole for adults in accordance with ISO 5355, type A, suitable for bindings of type A and C in accordance with ISO 9462
- 3.2 test sole type C: A test sole for children in accordance with ISO 5355, type C, suitable for bindings (standards.iteftype on accordance with ISO 9462.

3.3 basic test sole: A one-piece sole of length SIST ISO 9838:19 305 mm for type A and 255 mm for type C. https://standards.iteh.ai/catalog/standards/sist/c

Normative references

The following standards contain provisions which. through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 868:1985, Plastics and ebonite — Determination of indentation hardness by means of a durometer (Shore hardness).

ISO 5355:1991, Alpine ski-boots — Safety requirements and test methods.

ISO 9462:1988, Alpine ski-bindings - Safety requirements and test methods.

ISO 9465:-1, Alpine ski-bindings - Lateral toe release under impact loading — Safety requirements and test method.

1) To be published.

9fc2fafea2d4/sist-iso-9838.4 99variable length soles: A sole that is either adjustable, in two parts, or a set of several fixed length soles - between 270 mm and 360 mm for type A and between 200 mm and 280 mm for type C.

Material and manufacture

The sole shall be moulded in polyurethane, reinforced by a metal insert in order to achieve the mechanical requirements in clause 6. It is moulded in a homogeneous material and in a mould with the same roughness on the sole/binding interface to ensure that the friction coefficient is the same all over this interface.

In the shell areas, reinforcement is allowed to support the walls. It should remain outside the flat area.

Dimensions

The dimensions of the basic sole shall be as shown in figure 1 and figure 2. Except for the overall length, all the dimensions also apply to the variable length soles subject to the tolerances in table 1.

Mechanical properties

Flexional stiffness 6.1

Place the test sole (basic or variable) on two supports as shown in figure 3. The radius of the supports shall be 10 mm \pm 1 mm and the test sole shall be supported over its whole width. Load the test sole vertically during 10 s at its middle by means of a contact ram with a radius of 10 mm, and record the deflection under load. Record the residual deflection 20 s after releasing. Test at 23 °C \pm 5 °C. The load F_1 shall be:

- type A: $F_1 = 400 \text{ N}$
- type C: $F_1 = 200 \text{ N}$

Compressional stiffness

Place the test sole in a device of aluminium or steel as shown in figure 4. Compress the test sole during 10 s along its length axis and record the deformation under load. Record the residual deformation 20 so a rehecked regularly, particularly with respect to after releasing. Test at 23 °C \pm 5 °C. The load F_2 shall be:

type A: $F_2 = 500 \text{ N}$

- type C: $F_2 = 250 \text{ N}$

6.3 Hardness

A measurement of the Shore-D hardness shall be carried out on the sole/binding interface according to ISO 868. Test at 23 °C ± 5 °C.

6.4 Coefficient of friction

A measurement of the coefficient of friction shall be carried out in accordance with ISO 5355.

6.5 Coefficient of thermal expansion

The difference in length of the test sole at temperatures of 23 °C and - 20 °C respectively shall be measured.

6.6 Requirements

The requirements for the properties given in 6.1 to 6.5 shall be as indicated in table 2.

7 Long-term use

A test sole can be used for tests in accordance with ISO 9462 as long as it meets the requirements of this International Standard, Compliance shall be re-

-- dimensions (wear of the contact area with SIST ISO 98 bindings); https://standards.iteh.ai/catalog/standards/sist/c7ede579-1458-4371-8d5c-

9fc2fafea2d4/sist-isfriction199{presence of binding lubricants, scratches, etc.).

Table 1 — Tolerances

Dimensions in millimetres

Dimension	Tolerance for nominal dimension of				
	0,5 to 3	> 3 to 6	> 6 to 30	> 30 to 120	> 120 to 315
Length dimensions	± 0,15	± 0,2	± 0,5	± 0,8	<u>+</u> 1,2
Radius and chamfer	± 0,2	± 0,5	± 1	± 2	_

Dimensions in millimetres

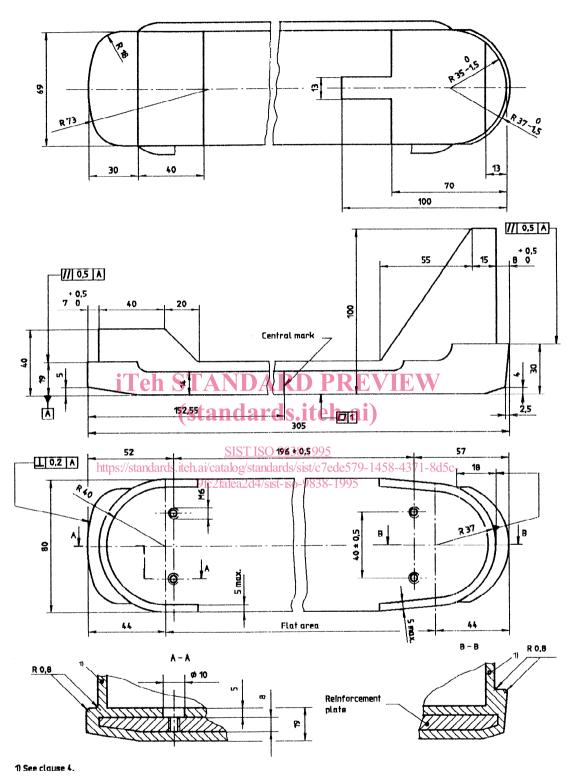


Figure 1 — Test sole type A

Dimensions in millimetres 62 R 67 12 25 40 77 0.5 A 10 50 // 0,5 A 30 Central mark 3 e j **e**_{127,5} S 152 ± 0,5 1 0.2 A ds.iteh.ai/catalog/standards/sist/c7ed 9fc2fafea2d4/sist-iso-9838-1995 2 32 Flat area R 0.8 A - A R 2 max. R 0,8 Reinforcement plate

Figure 2 — Test sole type C

1) See clause 4.