



# SLOVENSKI STANDARD SIST ISO 11088:2005

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Udgotovitev, nastavljanje in pregled alpskega skija/bindanja/čevljarice (S-B-B) sistema

Assembly, adjustment and inspection of an alpine ski/binding/boot (S-B-B) system

Montage, réglage et contrôle d'un ensemble ski/fixation/chaussure (SFC) pour skis alpins

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ISO  
11088

Third edition  
2004-04-15

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**Assembly, adjustment and inspection of  
an alpine ski/binding/boot (S–B–B)  
system**

*Montage, réglage et contrôle d'un ensemble ski/fixation/chaussure  
(SFC) pour skis alpins*

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## ISO 11088:2004(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.

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 11088 was prepared by Technical Committee ISO/TC 83, *Sports and recreational equipment*, Subcommittee SC 3, *Ski bindings*.

This third edition cancels and replaces the second edition (ISO 11088:1998), which has been technically revised. In particular, the following changes have been introduced:

- the tibial width method has been made the subject of Annex F;
- in 5.7 the test device in accordance with ISO 11110 has been made mandatory and the hatched lines in Annex C have been deleted;
- Annex A has been taken over from the modified ISO 8061.

## Introduction

International Standards exist for the components of the alpine ski/binding/boot (S–B–B) system, mainly intended for the component manufacturers. An International Standard (ISO 8061) also exists for the selection of release moments. The present International Standard is intended primarily for retailers. However, its aim is to include in one text the different phases of the choice of components, their assembly, adjustment and inspection in the form of practical procedures and to provide tolerances for inspection and adjustment.

The inspection procedures and tolerances described in this International Standard apply to the condition of the S–B–B system before it leaves the ski shop and are not intended to be used to judge the condition of the equipment once it is put into use.

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# Assembly, adjustment and inspection of an alpine ski/binding/boot (S–B–B) system

## 1 Scope

This International Standard specifies assembly, adjustment and inspection procedures for the binding mechanisms of skis, integrating in a practical way the requirements of those International Standards which are related to skis, bindings and boots.

It is intended for all individuals and institutions concerned with those procedures, and especially for sports retailers.

It is applicable to a ski/binding/boot/ system (S–B–B) for alpine skiing, of which at least one component is owned by the user.

NOTE In the case where the two components (SB and B) are rented, ISO 13993 gives a method of measurement by sampling as an alternative to systematic measurement before delivery to the end-user.

## 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 5355:—<sup>1)</sup>, *Alpine ski-boots — Requirements and test methods*

ISO 8061:2004, *Alpine ski-bindings — Selection of release torque values*

ISO 8364, *Alpine skis and bindings — Binding mounting area — Requirements and test methods*

ISO 9462, *Alpine ski-bindings — Requirements and test methods*

ISO 11087, *Skis — Retention devices — Requirements and test methods*

ISO 11110, *Winter-sports equipment — Test devices for the setting of the functional unit ski/boot/binding — Requirements and tests*

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1) To be published. (Revision of ISO 5355:1997)

## ISO 11088:2004(E)

### 3 Terms and definitions

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

- 3.1 fitting adjustment**  
procedure required to obtain geometric compatibility and correct functioning of different components
- 3.2 indicator value**  
**Z-mark**  
release indicator value marked on the binding in accordance with ISO 9462
- 3.3 skier type**  
release adjustment criteria pertaining to the type of skiing to be undertaken, as assessed by the skier in accordance with Table A.1

NOTE 1 The designations L, A, S, which were used in ISO 8061:1984, have been replaced by types 1, 2 and 3, respectively, in ISO 8061:1991 and in ISO 8061:2004.

NOTE 2 If the skier desires a setting outside the tolerances of this International Standard, he or she can select such a setting at his or her own discretion. Ski-binding manufacturers should provide guidelines to shops and skiers regarding the recommended magnitude of such changes. Skiers should be clearly informed when these changes result in release values above the upper limit or below the lower limit defined in ISO 8061.

- 3.4 initial indicator position**  
release indicator position of the binding corresponding with the instructions given in Table B.1 or F.1

- 3.5 Release moment (values),  $M_Z$  and  $M_Y$**  [SIST ISO 11088:2005  
https://standards.iteh.ai/catalog/standards/sist/8c7a0bc9-1fb8-452e-a0bf-c6c1f652c88f/sist-iso-11088-2005](https://standards.iteh.ai/catalog/standards/sist/8c7a0bc9-1fb8-452e-a0bf-c6c1f652c88f/sist-iso-11088-2005)

- 3.5.1 selected individual release moment reference moment**  
(for a given skier) release moment determined in accordance with ISO 8061

- 3.5.2 measured release moment**  
(for a given S–B–B system) average or middle quantitative value of three consecutive release measurements in the same direction on the same unit

NOTE It is expressed in newton metres.

- 3.6 deviation accepted for the setting inspection tolerance**  
maximum difference between the **measured release moment** (3.5.2) and the **selected individual release moment** (3.5.1)

NOTE This difference, which may be reduced by the setting, is limited for  $M_Z$  to  $\pm 15\%$  or 3 N·m (whichever is greater), and for  $M_Y$  to  $\pm 15\%$  or 10 N·m (whichever is greater).

- 3.7 release adjustment**  
procedure for making the measured  $M_Z$  and  $M_Y$  values coincide with the selected individual  $M_Z$  and  $M_Y$  values within the limits stated in Table B.1 or F.1

**3.8****trouble-shooting procedures**

additional procedures recommended by the equipment manufacturer

**3.9****deviation accepted for the re-adjustment****re-adjustment tolerance**

maximum difference between the **measured release moment** (3.5.2) at the **initial indicator position** (3.4) and the **selected individual release moment** (3.5.1)

NOTE This difference, which may be reduced by re-adjustment, is limited for  $M_Z$  to  $\pm 30\%$  or 6 N·m (whichever is greater), and for  $M_Y$  to  $\pm 30\%$  or 10 N·m (whichever is greater).

**4 Skier's parameters****4.1 General**

The individual release moment values are given in ISO 8061. The following procedure using discrete values may be considered as an acceptable approximation of the basic functions of ISO 8061.

**4.2 Weight method**

NOTE For the tibial width method, see Annex F.

**4.2.1 Determine the skier's parameters:**

— mass (weight);

— height;

— type (according to annex A);

— age;

— sole length if necessary.

**4.2.2 Using Table B.1, choose the individual release values of  $M_Z$  and  $M_Y$ .****5 Equipment parameters****5.1 Choice of new equipment**

The components shall be in conformance with the following International Standards:

- a) ISO 8364 for skis;
- b) ISO 5355 for boots;
- c) ISO 9462 for bindings;
- d) ISO 11087 for brakes.

The skier should receive specific recommendations concerning the selection of boot, binding and ski, if they are provided by the manufacturer.