

# INTERNATIONAL STANDARD

**ISO  
7794**

Second edition  
1991-07-15

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## **Cross-country skis — Ski binding screws — Requirements**

*Skis de fond — Vis de fixation — Spécifications*



Reference number  
ISO 7794:1991(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 7794 was prepared by Technical Committee ISO/TC 83, *Sports and recreational equipment*.

This second edition cancels and replaces the first edition (ISO 7794:1984), of which it constitutes a technical revision.

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

Printed in Switzerland

## Introduction

The use of ski binding screws complying with the requirements of this International Standard will improve binding mounting. By standardizing the drill hole diameter, recommendations by the manufacturers will no longer be required and mistakes and improper mounting, caused by differences in instructions, will be avoided. Also, standardization of the penetration depth will enable ski manufacturers to design their products such that there will be sufficient thickness in the mounting area, with proper location of reinforcement parts to make optimum use of the fastening characteristics.

The proposed values for driving torque and stripping torque will enable adjustable torque-limiting screwdrivers to be used with the same adjustment for all skis.

The use of the cross recess No. 3 screw will also contribute significantly to a simplification of the binding mounting procedure.

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## Cross-country skis — Ski binding screws — Requirements

### 1 Scope

This International Standard specifies the dimensions, mechanical properties, mounting and fastening characteristics of screws used for mounting ski bindings on cross-country skis.

The purpose of this International Standard is to facilitate the design of a more rational and safer binding mounting system.

### 2 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 1478:1983, *Tapping screws thread*.

ISO 2702:1974, *Heat-treated steel tapping screws — Mechanical properties*.

ISO 4042:1989, *Threaded components — Electroplated coatings*.

ISO 4757:1983, *Cross recesses for screws*.

ISO 7795:1984, *Cross-country skis — Ski binding screws — Test methods*.

### 3 Definitions

For the purposes of this International Standard, the following definitions apply.

**3.1 ski binding screw:** A fastener which, after mounting, ensures the connection of binding and ski by axial pre-tension.

**3.2 penetration depth:** The distance from the top surface of the ski to the lower extremity of the ski binding screw.

**3.3 driving torque:** The maximum value of the moment required to drive the ski binding screw into the drill hole of the test specimen without lubrication or tapping.

**3.4 tightening torque:** The moment, specified in the mounting instructions or in the test procedure, which is used to tighten the ski binding screw to ensure sufficient fastening.

**3.5 stripping torque:** The maximum measurable moment which causes damage to the internal thread in the test assembly, or to the thread of the screw if the already tightened screw is further loaded by a driving moment.

**3.6 static pull-out resistance:** The resistance of the test assembly to a pull-out force applied to one screw quasistatically in the axial direction.

### 4 Designation

Cross-country ski binding screws in accordance with this International Standard shall be designated by:

- the words "cross-country ski binding screws", and the abbreviation "XCSBS";
- their nominal dimensions, i.e. diameter  $\times$  length;
- the reference of this International Standard, i.e. ISO 7794;
- the type of screw head.

EXAMPLE:

Cross-country ski binding screws of nominal diameter 6,0 mm and length 17 mm, with countersunk heads would be designated:

Cross-country ski binding screws XCSBS 6,0  $\times$  17 ISO 7794 with countersunk heads.