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

*Skis de fond — Vis de fixation — Exigences*



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Published in Switzerland

## Foreword

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ISO 7794 was prepared by Technical Committee ISO/TC 83, *Sports and recreational equipment*, Subcommittee SC 4, *Snowsports equipment*.

This third edition cancels and replaces the second edition (ISO 7794:1991), which has been technically revised.

## Introduction

The use of ski-binding screws that comply 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, while mistakes and improper mounting, caused by differences in instructions, will be avoided. Standardization of the penetration depth will enable ski manufacturers to design their products so that there will be sufficient thickness in the mounting area and suitable positioning of reinforced 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 type 2 No. 3 screw will also contribute significantly to simplifying 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 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 1478, *Tapping screws thread*

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

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

## 3 Terms and definitions

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

### 3.1

#### **ski-binding screw**

fastener which, after mounting, ensures the connection of binding and ski by axial pre-tension

### 3.2

#### **penetration depth**

distance from the top surface of the ski to the lower extremity of the ski-binding screw

### 3.3

#### **driving torque**

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**

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**

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