International Standard 7265

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION•МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ•ORGANISATION INTERNATIONALE DE NORMALISATION

Cross-country skis — Binding mounting area — Static screw retention strength — Requirements and test method

Skis de fond — Zone de montage de la fixation — Résistance à l'arrachement statique des vis — Spécifications et méthode d'essai

First edition — 1984-08-15

UDC 685.363.2 **Ref. No. ISO 7265-1984 (E)**

Descriptors: sports equipment, skis, cross country skis, mounting surfaces, fastening, specifications, tests, mechanical tests, test equipment.

Price based on 4 pages

Foreword

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Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 7265 was developed by Technical Committee ISO/TC 83, *Sports and recreational equipment*, and was circulated to the member bodies in September 1983.

It has been approved by the member bodies of the following countries:

Austria	Germany, F.R.	Sweden
Czechoslovakia	India	Switzerland
Egypt, Arab Rep. of	Italy	USA
Finland	Japan	USSR
France	South Africa, Rep. of	

The member body of the following country expressed disapproval of the document on technical grounds:

Poland

Printed in Switzerland

Cross-country skis — Binding mounting area — Static screw retention strength — Requirements and test method

1 Scope and field of application

This International Standard specifies minimum values for the screw retention strength of the binding mounting area of cross-country skis and specifies a method of test for determining the static screw retention strength. Different values are specified for two groups of sizes.

Group 1: from 130 cm to 175 cm

Group 2: from 180 cm to 220 cm

It specifically excludes alpine skis. It also excludes skis intended for use with cable bindings.

1.1 A designated binding attachment area, hereafter referred to as the "binding mounting area", shall be provided by the ski manufacturer in accordance with ISO 7264 and shall be the only area of the ski subjected to this test and may be specially reinforced.

1.2 This International Standard covers skis the bindings of which are attached by means of screws in area A_1 and screws, nails or other fasteners in area A_2.

1.3 Using test screws loaded normal to the ski surface, the method of test specified herein simultaneously controls the tendency of screws to be pulled out, skis to delaminate, and screw hole threads to strip.

2 References

ISO 7264, *Cross-country skis — Dimensions of the binding mounting area for toe clip bindings.*

ISO 7793, *Cross-country skis — Binding mounting area — Stripping torque — Requirements and test method.*[1)]

3 Definitions

For the purpose of this International Standard, the following definitions apply:

3.1 screw retention strength F_R, in newtons: Characteristic of the ski which quantifies resistance to pull-out forces on a pair of screws under conditions as defined in clauses 5 and 7.

3.2 minimum screw retention strength, $F_{R\,min}$, in newtons: Value of screw retention strength as indicated in clause 4.

3.3 penetration depth d, in millimetres: The depth, the binding mounting screw penetrates the ski (see figure 1).

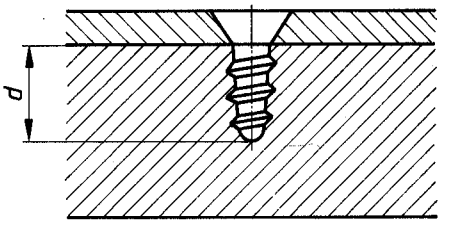

Figure 1 — Penetration depth d of the screw

3.4 tightening torque M_T, in newton metres: 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.

4 Requirements

The values given in table 1 for the penetration depth d and for the minimum screw retention strength $F_{R\,min}$ shall be observed.

Table 1

Group	Area A_1		Area A_2	
	d	$F_{R\,min}$	d	$F_{R\,min}$
	mm	N	mm	N
1	10 + 0,5	1 300	10 + 0,5	500
2	14 ± 0,5	1 600	14 ± 0,5	500

1) At present in the stage of draft.

Dimensions in millimetres

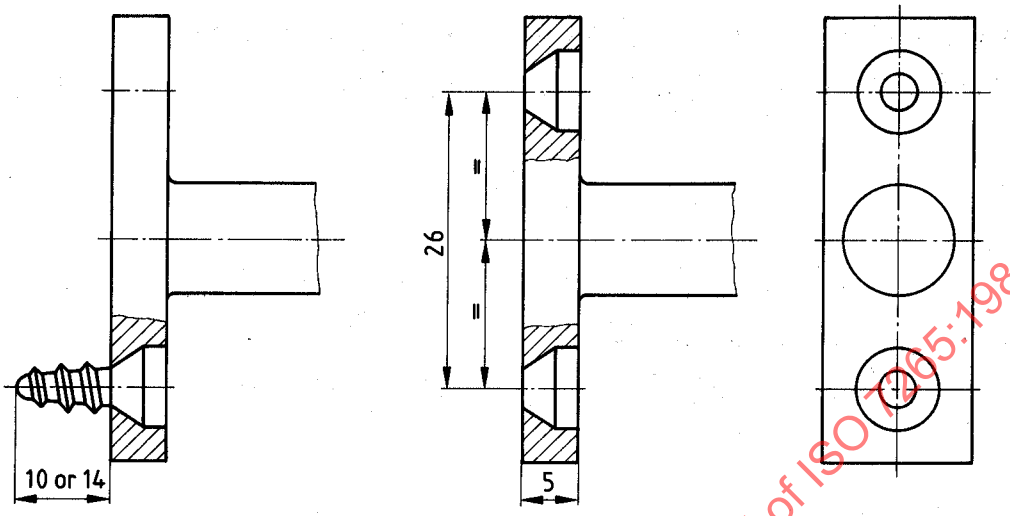

Figure 2 — Attachment element

Dimensions in millimetres

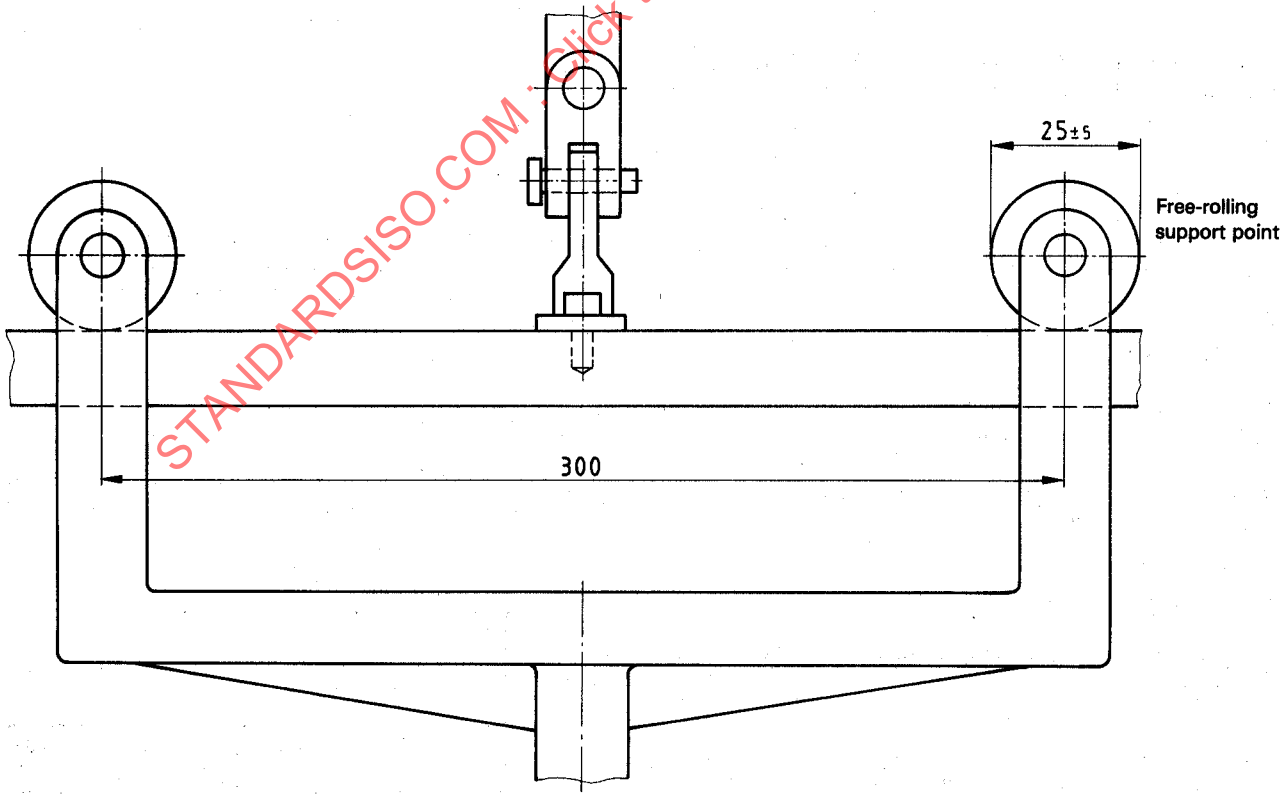

Figure 3 — Test fixture