BS ISO 10958-2:2015

BSI Standards Publication

Snowboards — Binding mounting area

Part 2: Requirements and test methods for snowboards with inserts

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National foreword

This British Standard is the UK implementation of ISO 10958-2:2015.

The UK participation in its preparation was entrusted to Technical Committee SW/136/7, Snowsports equipment.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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INTERNATIONAL STANDARD

ISO 10958-2

Third edition
2015-06-15

Snowboards — Binding mounting area —

Part 2: Requirements and test methods for snowboards with inserts

Surfs des neiges — Zone de montage de la fixation —

Partie 2: Exigences et méthodes d'essai relatives aux surfs des neiges munis d'inserts

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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.

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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 10958-2 was prepared by Technical Committee ISO/TC 83, *Sports and other recreational facilities and equipment*, Subcommittee SC 4, *Snowsports equipment*.

This third edition cancels and replaces the second edition (ISO 10958-2:2004), which has been technically revised

ISO 10958 consists of the following parts, under the general title *Snowboards — Binding mounting area*:

— *Part 1: Requirements and test methods for snowboards without inserts*

— *Part 2: Requirements and test methods for snowboards with inserts*

INTERNATIONAL STANDARD ISO 10958-2:2015(E)

Snowboards — Binding mounting area —

Part 2:
Requirements and test methods for snowboards with inserts

1 Scope

This part of ISO 10958 specifies requirements and test methods for snowboards as sports equipment on which bindings are attached by means of inserts that are not removable and screws.

It contains data for the manufacturer of snowboards, bindings and retention devices concerning dimensions, tests and other specifications for the binding mounting area.

For dimensions with no tolerance indicated, a tolerance of ±1 mm is valid.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 68-1, *ISO general purpose screw threads — Basic profile — Part 1: Metric screw threads*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in 68-1 and the following apply.

3.1
insert
reusable commonly threaded attachment point permanently fixed in the snowboard at the time of manufacture, used to mount the bindings to the snowboard and typically arranged in a pattern corresponding to a particular binding manufacturer's pattern

3.2
retention strength
axial pull-out force of an insert in a snowboard tested in accordance with 6.1 and 7.1

3.3
spin resistance
moment required to rotate an insert tested in accordance with 6.2 and 7.2

3.4
screw thread engagement
e
number of threads engaged by a standard screw in an insert

Note 1 to entry: See Figure 1.

3.5
insert well depth
i
distance within the insert well from the snowboard top surface to the unobstructed bottom clearance of the binding-insert

Note 1 to entry: See Figure 1.

3.6
countersink depth
c
distance from the snowboard top surface to the first thread of the insert

Note 1 to entry: See Figure 1.

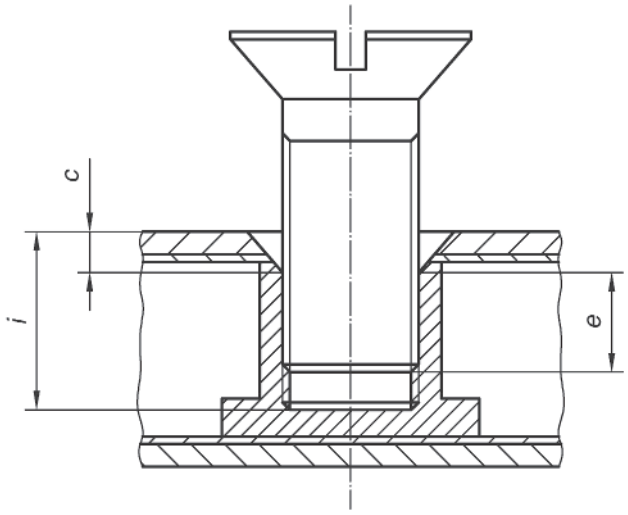


Figure 1 — Illustration of screw thread engagement, insert well depth and countersink depth

4 Specifications for design of snowboard insert

4.1 Inserts shall have an M6×1, 6H class internal thread with standard tolerances in accordance with ISO 68-1.

4.2 Insert screws shall have an M6×1, 6g class external thread with standard tolerances in accordance with ISO 68-1.

4.3 The snowboard design shall provide, for a minimum insert well depth *i* of 5,5 mm, a minimum screw engagement *E* of 2,0 threads. The length of the screw shall allow a gap between the end of the screw and the bottom of the insert. The effective threaded depth of the insert shall be at least 5,5 mm.

The value of 2 threads has been verified by extensive tests carried out by snowboard manufacturers. It is recommended that self-locking screws are used.

4.4 The maximum countersink depth *c* shall be 2,5 mm.

5 Strength requirements

5.1 Retention strength

When tested in accordance with 7.1, inserts in a snowboard shall have a minimum retention strength of 4 500 N for those snowboards with a suggested rider mass of 45 kg or more; and a minimum retention strength of 3 500 N for those snowboards with a suggested rider mass less than 45 kg.

5.2 Spin resistance

When tested in accordance with 7.2, inserts in a snowboard shall have a minimum spin resistance of 20 N·m.

6 Test apparatus

6.1 Retention-strength test apparatus

Universal test machine (UTM), with a pull-out device according to Figure 2, having a minimum load range of 10 000 N.

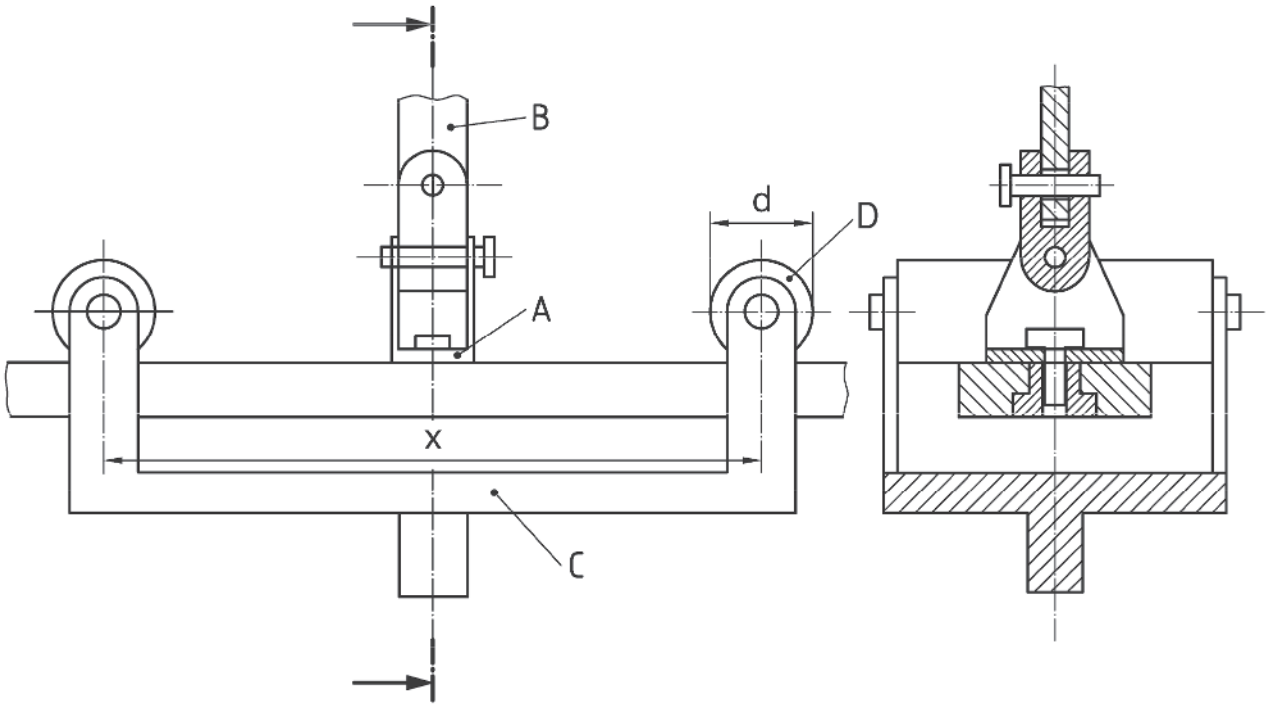


Figure 2 — Universal test machine with pull-out device

The pull-out device (see Figure 2) shall consist of

a) a rigid steel attachment plate (A) with one hole of diameter 6,5 mm,

b) a universal joint (B) which is connected to the attachment plate and to the clamping device of the test machine

c) a snowboard support (C) with two support rollers (D) with a distance (x) of 200 mm between them for snowboards with suggested rider mass of 25 kg or more and a distance (x) of 100 mm between them for snowboards with suggested rider mass of less than 25 kg, and

d) a support roller (D) with a diameter (d) of 30 mm.

6.2 Spin resistance test apparatus

6.2.1 **Device,** capable of applying a torque directly to the insert (e.g. long screw with counter-nut).

6.2.2 **Hand-held torque gauge**, able to read to ± 2,5 N·m.

6.2.3 **C-Clamps,** able to hold the snowboard stationary on a flat surface.

7 Test procedures

7.1 Retention-strength test procedure

7.1.1 Test the snowboards at room temperature, (23 ± 5) °C.

7.1.2 Cycle the UTM at a crosshead rate of 20 mm/min ± 4 mm/min.

7.1.3 Stop the test at a load of 4 500 N, respectively 3 500 N as appropriate.

7.2 Spin-resistance test procedure

7.2.1 Test the inserts at room temperature, (23 ± 5) °C.

7.2.2 Clamp the snowboard to a flat surface.

7.2.3 Insert the test screw into the insert, engaging to the full depth of the insert.

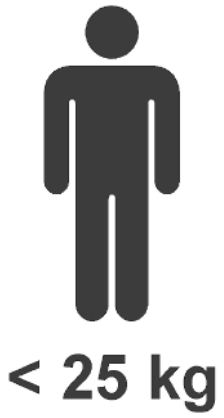
7.2.4 Torque the insert up to the required torque of 20 N·m.

8 Marking

Snowboards with a suggested rider mass between 25 kg and 45 kg shall be marked with a clearly visible, permanent sign of minimum size 10 mm, placed outside the binding mounting area. The sign shall be as follows:

25 kg - 45 kg

Snowboards with a suggested rider mass less than 25 kg shall be marked with a clearly visible, permanent sign of minimum size 10 mm, placed outside the binding mounting area. The sign shall be as follows:



9 Test report

The test report shall include the following information:

a) a reference to this part of ISO 10958, i.e ISO 10958-2:2015;

b) snowboard/binding insert manufacturer, model/style and length;

c) snowboard serial number;

d) compliance with the requirements according to Clause 5;

e) any deviations from this part of ISO 10958;

f) date of tests.

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