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IS 9315 (1979): Dimensions for boot/binding interface
(Greater than size 36) for alpine skis [PGD 27:
Mountaineering Equipment]



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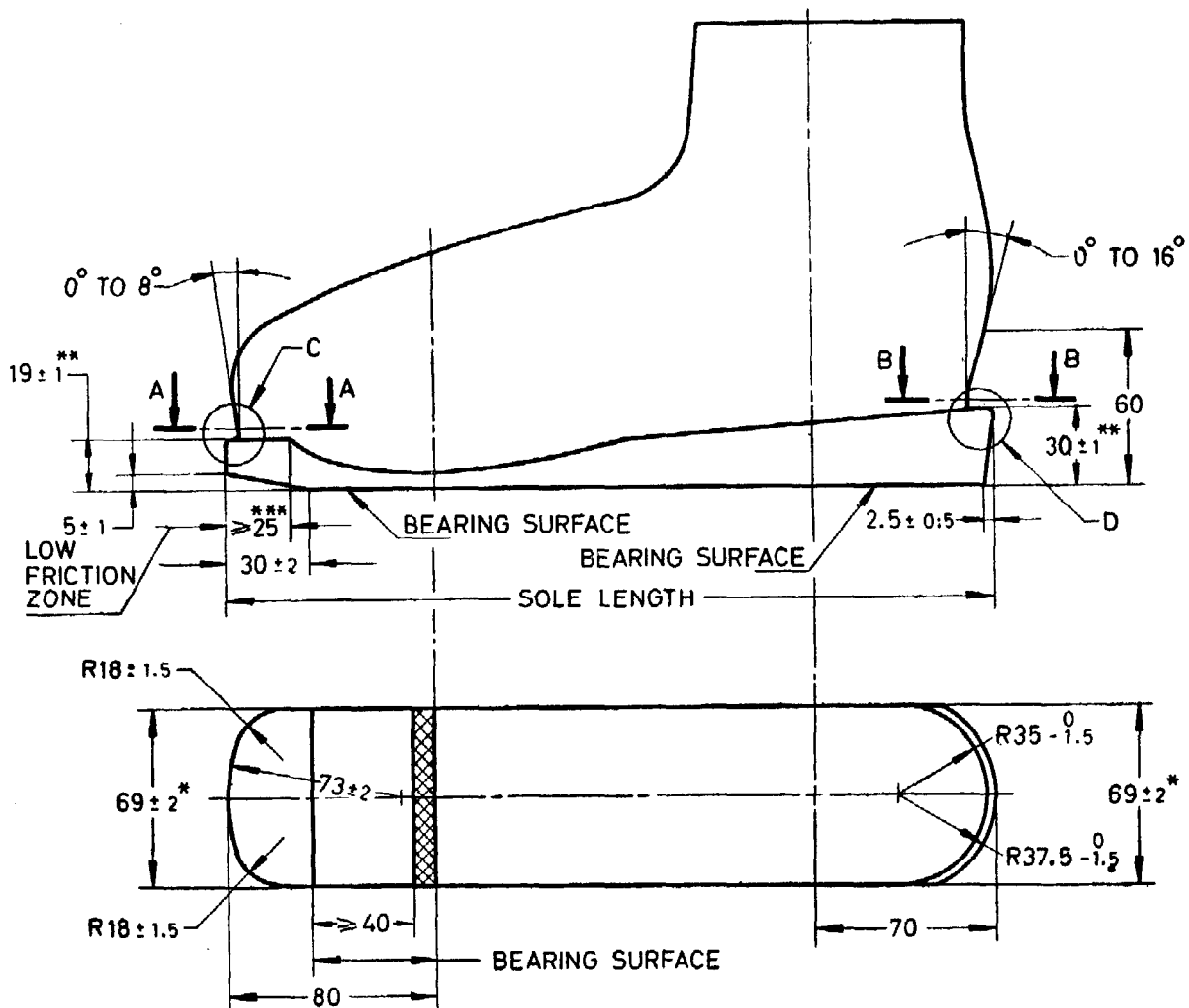




Indian Standard
DIMENSIONS FOR
BOOT/BINDING INTERFACE
(GREATER THAN SIZE 36) FOR ALPINE SKIS

1. Scope — Lays down dimensions for the interface between ski boots and ski bindings for alpine skis. It is intended to ensure that current systems of alpine ski bindings, the correct functioning of which depends on the interface dimensions or on the design of ski-boot soles, are used with ski boots having uniform sole and boot/binding interface dimensions.

2. Dimensions



* The dimensions apply for a distance up to 80 mm from the sole toe and 70 mm from the sole heel.

** The dimension applies for the area within the hatched zone (see Fig. 2 and 3).

*** The side walls of the front portion of the boot sole shall be perpendicular to the bearing surface of the ski boot for at least 25 mm extending back from the sole tip.

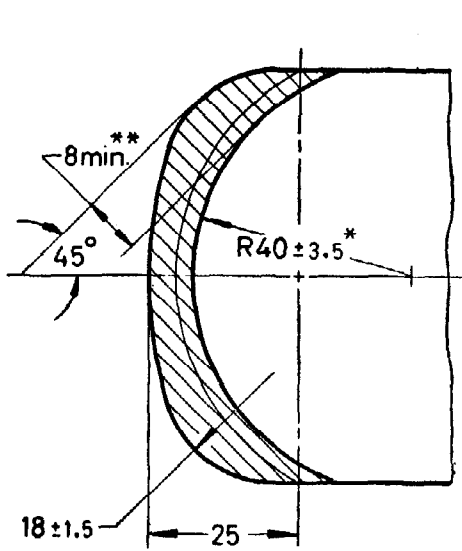
All dimensions in millimetres.

FIG. 1 DIMENSIONS OF BOOT SOLE TOE AND HEEL

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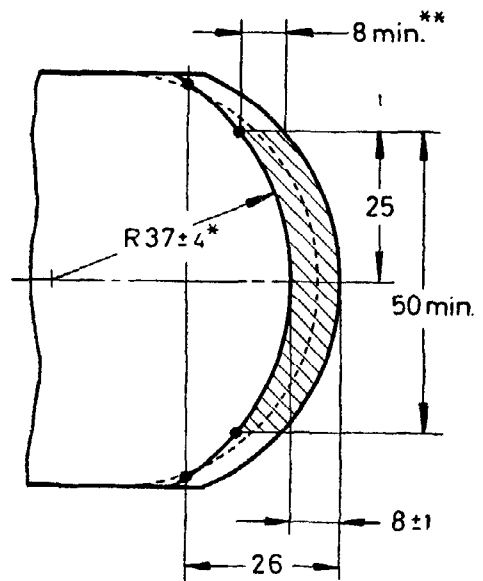


* The radius of 40 ± 3.5 mm applies for a distance up to 25 mm rearward from the end of the sole extension. The continuation of the corresponding arc shall curve outward without discontinuity, providing a smooth transition to the arc without edges or rims.

** The distance between the tangents to the arc of radius 40 ± 3.5 mm of the boot upper and the arc of radius 18 ± 1.5 mm of the boot sole, at an angle of 45° to the longitudinal axis of the boot, shall be not less than 8 mm.

All dimensions in millimetres.

FIG. 2 SECTION A-A AT THE BOOT TOE

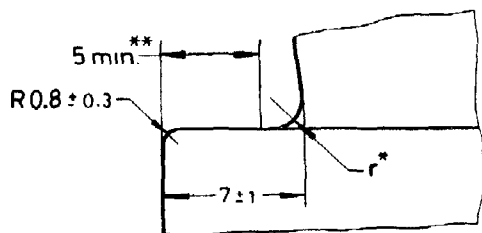


* The radius of 37 ± 4 mm applies for a distance 26 mm from the rear extremity of the boot sole.

** A line parallel to the longitudinal axis of the boot sole at a distance of 25 mm from this axis shall intersect the radii (37 ± 4 mm for the boot upper and 37.5 ± 1.5 mm for the boot sole) at two points which shall be at least 8 mm apart.

All dimensions in millimetres.

FIG. 3 SECTION B-B AT THE BOOT HEEL

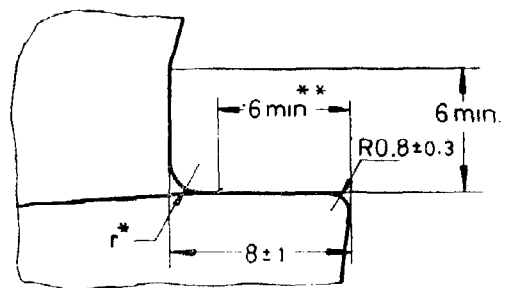


* r is optional within the established limits (0 to 3 mm), provided that it is constant at all points along the radius.

** The extension of 5 mm minimum between the boot sole toe and the beginning of the arc of transition radius r shall be maintained as a flat surface (except for the radius of 0.8 ± 0.3 mm).

All dimensions in millimetres.

FIG. 4 DETAIL C



* r is optional within the established limits (0 to 3 mm), provided that it is constant at all points along the radius.

** The extension of 6 mm minimum between the boot sole heel and the beginning of the arc of transition radius r shall be maintained as a flat surface (except for the radius of 0.8 ± 0.3 mm).

All dimensions in millimetres.

FIG. 5 DETAIL D

2.1 Boot Sole and Heel

2.1.1 The interface of the boot upper at the heel shall include a cylindrical surface cylinder of radius 37 ± 4 mm and a height of 6 mm minimum, extending over a minimum distance of 26 mm from the rear extremity of the boot sole. Also included is the zone limited by the angle of 0 to 16° which prolongs the cylindrical portion to height of 60 mm minimum above the upper edge of the boot sole and which has a chord length of 50 mm at this height (see Fig. 3). No part of the boot shall extend beyond this interface. However, the boot does not have to attain this limit area at all points.

2.2 The sole and upper shape are given for illustration only; however, the given dimensions shall be followed.

3. Design

3.1 The dimensions of the sole in the toe and heel areas shall be symmetrical about the median longitudinal plane.

3.2 There shall be a bevel at the front of the boot sole 5 ± 1 mm high and 30 ± 2 mm long.

3.3 The side walls of the sole at the toe and heel areas beyond the respective sole radii specified may be angled inward or perpendicular to the bearing surface, but shall not flare outward.

3.4 The generators of the vertical surfaces of the boot sole extending 25 mm back from the tip shall be perpendicular to the low-friction area of the sole and shall have a straightness tolerance of 1 mm.

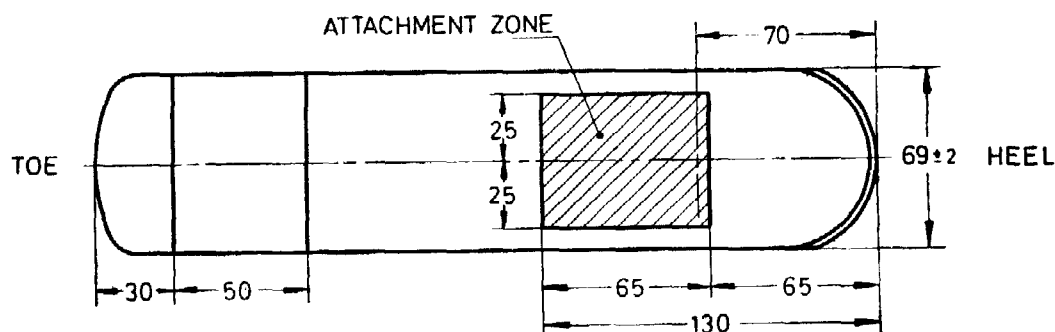
3.5 Behind the bevel specified in 3.2, there shall be a low-friction zone of length at least 40 mm and having a flatness tolerance as specified in 3.7. The flat area behind the low-friction zone may have tread patterns with a maximum depth of 1.5 mm.

3.6 Within the low-friction zone, the bearing surface of the sole shall present good sliding qualities.

3.7 The low-friction zone surface of the boot sole shall have a flatness tolerance of 1 mm [see IS : 8000 (Part I)-1976 Generalities, symbols, indications on drawings].

3.8 There are two types of boot sole, namely:

- a) boot sole A, the mid-section of which is optional in form and dimensions; and
- b) boot sole B, which satisfies the mechanical and dimensional requirements of ski equipment mounted and/or used at the midsole (for example, the sole shall be sufficiently resistant to screw pull-out) (see Fig. 6).



All dimensions in millimetres.

FIG. 6 BOTTOM VIEW OF TYPE B SOLE

3.9 The hatched surface in Fig. 2 and 3 shall lie between two parallel planes 1 mm apart [see definition of flatness in IS : 8000 (Part I)-1976].

3.10 The edges of the sole shall be rounded.

3.11 Within the upper and lower limit radii shown in Fig. 2, any type of boot upper symmetrical about the longitudinal boot axis is admissible, but no edge shall be produced, that is, the transition between curved surfaces of different radii shall be smooth.

IS : 9315 - 1979

3.12 At the boot heel within the limit radii shown in Fig. 3, any type of boot upper symmetrical about the longitudinal boot axis is admissible, but no edge shall be produced, that is, the transition between curved surfaces of different radii shall be smooth.

3.13 The mounting point for positioning the ski binding on the ski shall be indicated by a line on each side of the lower surface of the boot as close to the ski as possible. This line shall be clearly visible and permanent. It shall be not less than 10 mm in length and not more than 5 mm from the mid-point of the length of the space allowed for the foot.

EXPLANATORY NOTE

This Indian Standard applies to ski boots size 36 (French Size), size 3½ (English Size) or size 4½ (Americans Size) and larger, which are used in connection with releasable ski-bindings existing at present for alpine skiing (with attachment at the boot toe and boot heel).

For ski-binding systems that function irrespective of the sole shape, it is not always necessary that ski-boot soles comply.

This standard is in conformity with ISO/DIS 5355 'Alpine skis-boot binding interface (greater than size 36)' issued by International Organization for Standardization (ISO).