SLOVENSKI STANDARD
SIST EN 14183:2004

01-februar-2004

Stopniļ asti stoli

Step stools

Tritte

Escabeaux

Ta slovenski standard je istoveten z: **EN 14183:2003**

ICS:

97.145 Lestve Ladders

SIST EN 14183:2004 **en**

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 14183

December 2003

ICS 97.145

English version

Step stools

Escabeaux Tritte

This European Standard was approved by CEN on 14 November 2003.

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Ref. No. EN 14183:2003 E

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Foreword

This document (EN 14183:2003) has been prepared by Technical Committee CEN/TC 93, “Ladders”, the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by June 2004, and conflicting national standards shall be withdrawn at the latest by June 2004.

Note A revision of this standard is intended, taking into account the results of the revision of EN 131.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and the United Kingdom.

1 Scope

This European Standard specifies the requirements for step stools, stairtype steps and dometype steps stools. This includes design characteristics, dimensions, materials, performance requirements, test methods and the declaration of suitability of use. The standard excludes ladders and stepladders as defined by EN 131-1:1993.

The requirements are based upon the maximum total load of 150 kg.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

EN 719, *Welding coordination — Tasks and responsibilities.*

EN 729-1, *Quality requirements for welding — Fusion welding of metallic materials — Part 1: Guidelines for selection and use.*

EN 729-2, *Quality requirements for welding — Fusion welding of metallic materials — Part 2: Comprehensive quality requirements.*

EN 729-3, *Quality requirements for welding — Fusion welding of metallic materials — Part 3: Standard quality requirements.*

EN 729-4, *Quality requirements for welding — Fusion welding of metallic materials — Part 4: Elementary quality requirements.*

EN 12526, *Castors and wheels — Vocabulary, recommended symbols and multilingual dictionary.*

3 Terms and definitions

For the purposes of this European Standard, the following terms and definitions given in EN 12526 for castors and wheels and the following apply.

3.1
step stool
stool with a seat or platform designed for sitting and standing on which also incorporates one or more steps

3.2
stair type steps
structure with deep steps and shallow climbing angle

3.3
dome type step stool
structure ascendable from two or more sides with a platform and with or without an intermediate step

3.4
components of step stools

3.4.1
step
climbing support

3.4.2
platform/seat
uppermost support for standing/sitting on

3.4.3
accending leg
ascendable side of a step stool

3.4.4
supporting leg
side of a step stool that cannot be ascended

4 Functional dimensions, designations, requirements

4.1 General

The drawings are examples only and products need not correspond. However, dimensions are binding. Step stools shall only be fitted with steps that are uniformly spaced to within a tolerance of ± 2 mm.

If the top surface is less than 240 mm × 400 mm, the step stool or stair type steps with a height of more than 750 mm shall have a handrail.

All types of products covered by this standard may be fitted with castors and wheels.

Table 1 — Nomenclature and symbols

Symbols	A	Step stool with fixed legs
	B	Step stool with folding legs that are braced when in use
	C	Stair type steps
	D	Step stool with fold-out steps
	E	Step stool with pull-out steps
	F	Dome type step stool
Quantities	h	Height from the floor to the top surface of the platform or seat
	a	Height from the floor to the top surface of the lowest step and between the top surfaces of subsequent steps, platform or seat
	b_1	Width of platform or seat
	b_2	Width across the outer edges of legs at floor level
	b_3	Width of each step
	b_5	Depth of platform or seat
	b_6	Depth across the outer edges of the legs at floor level
	b_7	Depth of all steps
	b_8	Depth of stair type step stools
	α	Angle between the horizontal and the leading edges of all climbing supports.
	β	Angle between the horizontal and an imaginary line drawn between the rear edge of the rear legs at floor level and the rear edge of the platform or seat.

Table 2 — Functional dimensions for all types of step stools

Dimensions in millimetres

	h	a	b_1	b_2	b_3	b_5	b_6	b_7	b_8	α	β
min.	—	—	300	$b_1 + 0{,}1\ h$	250	200	$b_5 + 0{,}1\ h$	80	150	45°	45°
max.	1 000[a]	250	—	—	—	600	—	—	—	70°[b]	87°

[a] 500 mm for dome type step stools
[b] 80° for heights ≤ 500 mm

4.2 Step stool with fixed or folding legs

There shall be no gap between the projection of the steps to the ground (see Figure 1b).

Designation of a step stool with fixed legs (A) with three steps:

Step stool EN 14183 — A—3

Designation of a step stool with folding legs that are braced when in use (B) with three steps:

Step stool EN 14183 — B—3

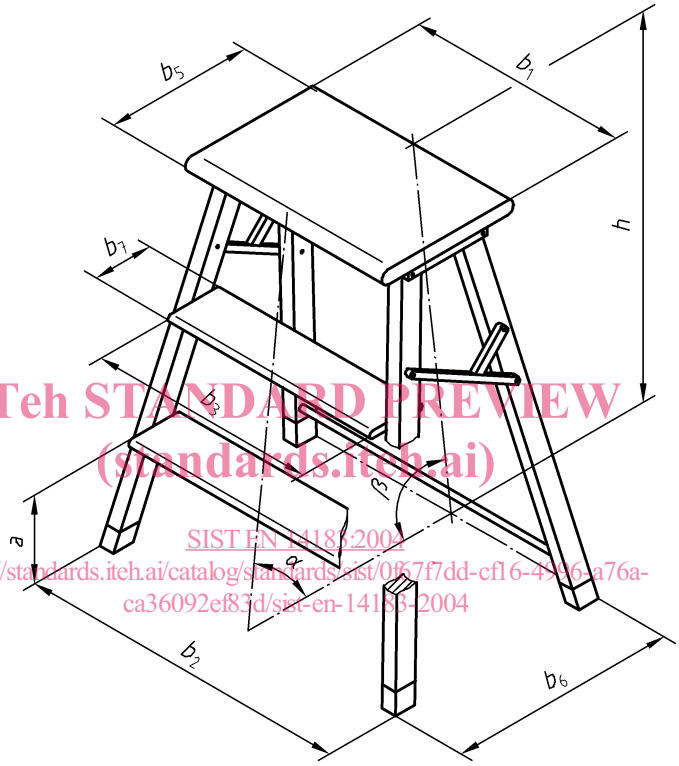

Figure 1a — Step stool with fixed or folding legs

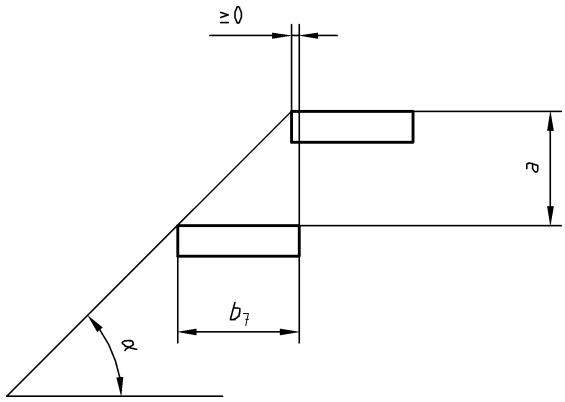

Figure 1b — Overlapping of steps for step stools