SLOVENSKI STANDARD
SIST EN 131-1:2016+A1:2019

01-november-2019

Lestve - 1. del: Terminologija, tipi, funkcionalne velikosti

Ladders - Part 1: Terms, types, functional sizes

Leitern - Teil 1: Benennungen, Bauarten, Funktionsmaße

Échelles - Partie 1: Terminologie, types, dimensions fonctionnelles

Ta slovenski standard je istoveten z: **EN 131-1:2015+A1:2019**

ICS:

01.040.97	Oprema za dom in trgovino. Razvedrilo. Šport (Slovarji)	Domestic and commercial equipment. Entertainment. Sports (Vocabularies)
97.145	Lestve	Ladders

SIST EN 131-1:2016+A1:2019 **en,fr,de**

EUROPEAN STANDARD

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EN 131-1:2015+A1

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ICS 01.040.97; 97.145

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English Version

Ladders - Part 1: Terms, types, functional sizes

Échelles - Partie 1: Terminologie, types, dimensions fonctionnelles

Leitern - Teil 1: Benennungen, Bauarten, Funktionsmaße

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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European foreword

This document (EN 131-1:2015+A1:2019) 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of an identical text or by endorsement, at the latest by March 2020, and conflicting national standards shall be withdrawn at the latest by March 2020.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document includes Amendment 1 approved by CEN on 2019-03-29.

This document supersedes A1 EN 131-1:2015 A1

The start and finish of text introduced or altered by amendment is indicated in the text by tags A1 A1.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association.

A1 *deleted text* A1

EN 131, *Ladders*, is one of a series about ladders:

— *Part 1: Terms, types, functional sizes* [the present document];

— *Part 2: Requirements, testing, marking*;

— *Part 3:* A1 *Marking and* A1 *user Instructions*;

— *Part 4: Single or multiple hinge-joint ladders*;

— *Part 6: Telescopic ladders*;

— *Part 7: Mobile ladders with platform*.

The standards of this series are listed in Clause 2 and in the Bibliography.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, A1 Republic of North Macedonia A1, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

1 Scope

This European Standard defines terms and specifies the general design characteristics of ladders.

〈A1〉 It applies to portable ladders designed for general professional and non-professional use.

This standard does not apply to portable ladders which by their design and instructions are intended and limited only for a specific professional use and as a result are not for general professional or non-professional use. 〈A1〉

NOTE 1 For multiple hinge joint ladders EN 131–4 applies.

NOTE 2 For telescopic ladders EN 131–6 applies.

NOTE 3 For mobile ladders with platforms EN 131–7 applies.

NOTE 4 This standard does not apply to step stools for which EN 14183 applies.

〈A1〉 NOTE 5 For ladders to work near high voltage installations, EN 61478 applies and for working near low voltage electric installations, EN 50528 applies. 〈A1〉

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.

EN 131-2, *Ladders — Part 2: Requirements, testing, marking*

EN 131-3, *Ladders — Part 3: User Instructions*

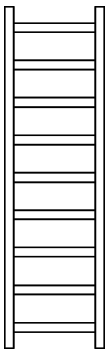
EN 131-4:2007, *Ladders — Part 4: Single or multiple hinge-joint ladders*

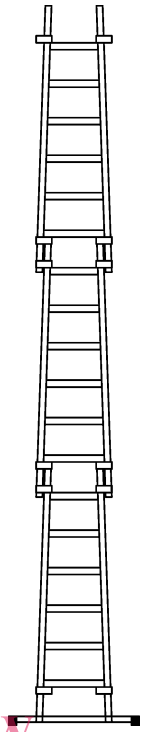
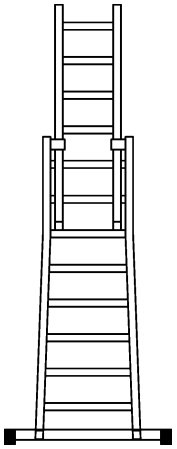
3 Terms and definitions

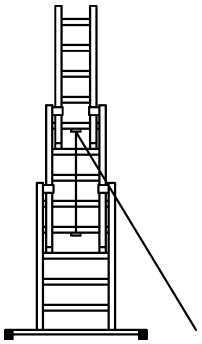
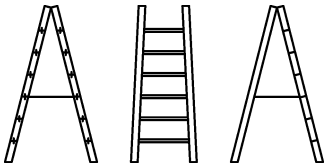
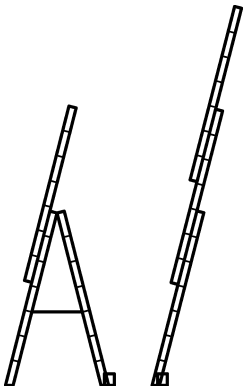
For the purpose of this document, the terms and definitions given in EN 131–4:2007 for single or multiple hinge-joint ladders and the following apply.

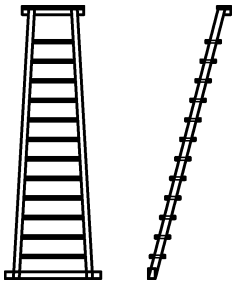
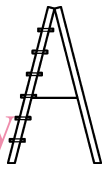
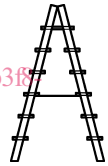
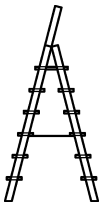
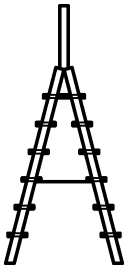
Table 1

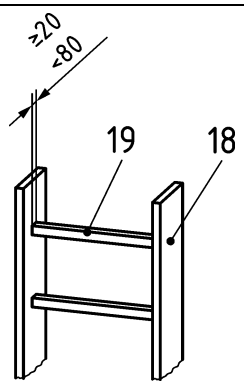
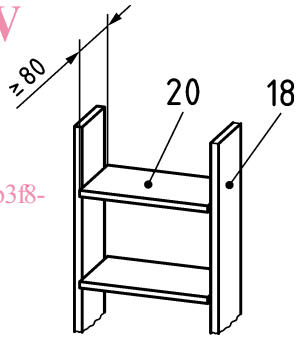
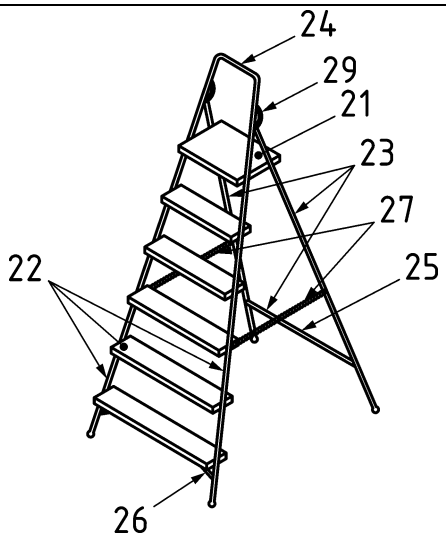
Dimensions in millimetres

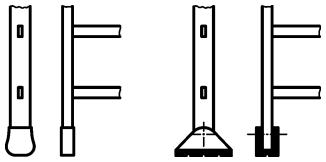
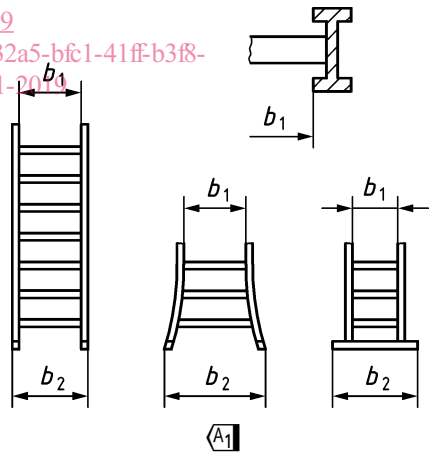
No	Terms	Definition	Figure
3.1	ladder	device incorporating steps or rungs on which a person may step to ascend or descend	
3.2	portable ladder	ladder which can be transported and set up by hand	
[A1] *3.3 (deleted row)* [A1]			
3.4	rung ladder	portable ladder with rungs, which have a standing surface from front to back of less than 80 mm	
3.5	leaning rung ladder	rung ladder which does not have its own support	
3.6	one-piece leaning rung ladder	leaning rung ladder consisting of one part only	 **Figure 2**

No	Terms	Definition	Figure
3.7	sectional ladder	leaning ladder consisting of several sections that can be fitted together by means of connection devices Note 1 to entry: The length can only be varied by one whole section at a time.	 **Figure 3**
3.8	extending ladder	leaning rung ladder consisting of two or more parts where the length can be regulated by one rung at a time	
3.9	push-up extending ladder	extending ladder where the upper parts are extended by hand	 **Figure 4**

No	Terms	Definition	Figure
3.10	rope-operated extending ladder	extending ladder where the upper parts are extended by means of a rope or other means such as chains, straps or cables	 **Figure 5**
3.11	standing rung ladder	two-piece self-supporting rung ladder, unilaterally or bilaterally ascendable	 **Figure 6**
3.12	combination ladder	rung ladder of several parts, that can be used as, an extending ladder, a standing ladder or as a standing ladder with an extending ladder at the top, and parts of which may be used as one piece leaning ladders	 **Figure 7**  **Figure 8**
3.13	step ladder	portable ladder with steps horizontal during use and a standing surface from front to back equal to or greater than 80 mm	

No	Terms	Definition	Figure
3.14	leaning step ladder	step ladder that does not have its own support consisting of one or several parts	 **Figure 9**
3.15	standing step ladder	two-legged self-supporting step ladder, unilaterally or bilaterally ascendable; with or without platform; with or without hand-/knee rail; a platform is regarded as a step	
		unilaterally ascendable step ladder	 **Figure 10**
		bilaterally ascendable step ladder	 **Figure 11**
		unilaterally ascendable step ladder with platform and hand-/knee rail	 **Figure 12**
		bilaterally ascendable step ladder with platform and hand-/knee rail	 **Figure 13**
3.16	standing ladder	ladder (with rungs or steps) which has its own support	

No	Terms	Definition	Figure
3.17	standing rung and step ladder	standing ladder, one section with rungs and the other section with steps	
3.18	stile	lateral part of a ladder which supports the rungs or steps as well as cross struts of supporting legs	
3.19	rung	climbing support with a standing surface from front to back of less than 80 mm and at least 20 mm	 Figure 14
3.20	step	climbing support with a standing surface from front to back equal to or greater than 80 mm	 Figure 15
3.21	platform	topmost standing surface of a standing step ladder which is different from a step	 Figure 16
3.22	ascending leg	leg of a ladder with climbing supports	
3.23	supporting leg	leg of a ladder without climbing supports	
3.24	hand-/knee rail	device for holding onto or gaining support from at the upper end of a standing ladder	
3.25	cross strut	horizontal connection of the stiles of the supporting leg	

No	Terms	Definition	Figure
3.26	bottom brace	device which secures the lower end of the stile against buckling	
3.27	opening restraint device	device on standing ladders which secures the two legs of the ladder from sliding apart	
3.28	locking device	device to keep ladder hooks engaged on the rung or step during use	
3.29	hinge-joint	device on standing ladder which secures the two legs of the ladder	
3.30	foot	device fitted permanently to the bottom of ladders to prevent the ladder from slipping; or, in the case of a wooden ladder, bottom of the stile or a component fitted to the bottom of the stile	 **Figure 17**
3.31	inner width b_1	⟨A1⟩ useable distance between the inner sides of the stiles measured at the upper edge of the shortest rung/step/platform ⟨A1⟩	⟨A1⟩  ⟨A1⟩ **Figure 18**
3.32	outside width b_2	distance between the outer side of stiles measured at the lower end of stiles or the outside width of the supporting points of the stabilizer	
3.33	total length l_1	⟨A1⟩ distance measured over the bottom foot to the top of a fully extended ladder ⟨A1⟩	(see Figure 19)