

SINGAPORE STANDARD

Ladders

– Part 1 : Terms, types, functional sizes

The national standard is the identical implementation of EN 131-1:2015 and is adopted with permission of CEN, Avenue Marnix 17, 1000 Brussels

SS EN 131-1 : 2019

EN 131-1:2015, IDT
(ICS 01.040.97; 97.145)

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– Part 1 : Terms, types, functional sizes

Published by Enterprise Singapore

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ISBN 978-981-48-9445-6

The content of this Singapore Standard was approved on 25 September 2019 by the Quality and Safety Standards Committee (QSSC) under the purview of the Singapore Standards Council.

First published, 2019

QSSC consists of the following members:

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QSSC sets up the Technical Committee on Personal Safety and Health to oversee the preparation of this standard. The Technical Committee consists of the following members:

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The Technical Committee sets up the Working Group on Portable Aluminium Ladders to prepare this standard. The Working Group consists of the following experts who contribute in their *individual capacity*:

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The organisations in which the experts of the Working Group are involved are:

C&W Services (S) Pte Ltd

GS Industries Pte Ltd

Institution of Occupational Safety and Health, Singapore Branch

L&M Metals (S) Pte Ltd

Ministry of Manpower

Modern (Singapore) Scaffolding & Engineering Pte Ltd

Prefabricated Access Supplier and Manufacturer Association

Singapore Contractors Association Limited

Singapore Polytechnic

Springwell Marketing Services Pte Ltd

The Institution of Engineers, Singapore

TÜV SÜD PSB Pte Ltd

Workplace Safety and Health Council

WSH (Asia)

National Foreword

This Singapore Standard was prepared by the Working Group on Portable Aluminium Ladders set up by the Technical Committee on Personal Safety and Health under the purview of QSSC.

SS EN 131 consists of the following six parts, under the general title 'Ladders':

- Part 1: Terms, types, functional sizes (Identical adoption of EN 131-1:2015)
- Part 2: Requirements, testing, marking (Identical adoption of EN 131-2:2010+A2:2017)
- Part 3: Marking and user instructions (Identical adoption of EN 131-3:2018)
- Part 4: Single or multiple hinge-joint ladders (Identical adoption of EN 131-4:2007)
- Part 6: Telescopic ladders (Identical adoption of EN 131-6:2019)
- Part 7: Mobile ladders with platform (Identical adoption of EN 131-7:2013)

This standard is identical with EN 131-1:2015, "Ladders – Part 1: Terms, types, functional sizes", published by European Committee for Standardisation, CEN, Avenue Marnix 17, B-1000 Brussels.

NOTE 1 – EN 131-5: Accessories for ladders is not available for adoption as CEN has terminated the development of this part.

NOTE 2 – Where appropriate, the words "European Standard" are read as "Singapore Standard".

NOTE 3 – Reference to European Standards are replaced by applicable Singapore Standards.

Attention is drawn to the possibility that some of the elements of this Singapore Standard may be the subject of patent rights. Enterprise Singapore shall not be held responsible for identifying any or all of such patent rights.

NOTE

1. *Singapore Standards (SSs) and Technical References (TRs) are reviewed periodically to keep abreast of technical changes, technological developments and industry practices. The changes are documented through the issue of either amendments or revisions. Where SSs are deemed to be stable, i.e. no foreseeable changes in them, they will be classified as "Mature Standards". Mature Standards will not be subject to further review, unless there are requests to review such standards.*
2. *An SS or TR is voluntary in nature except when it is made mandatory by a regulatory authority. It can also be cited in contracts making its application a business necessity. Users are advised to assess and determine whether the SS or TR is suitable for their intended use or purpose. If required, they should refer to the relevant professionals or experts for advice on the use of the document. Enterprise Singapore and the Singapore Standards Council shall not be liable for any damages whether directly or indirectly suffered by anyone or any organisation as a result of the use of any SS or TR. Although care has been taken to draft this standard, users are also advised to ensure that they apply the information after due diligence.*
3. *Compliance with a SS or TR does not exempt users from any legal obligations.*

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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

This European Standard was approved by CEN on 11 September 2015.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

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European foreword

This document (EN 131-1:2015) 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 May 2016, and conflicting national standards shall be withdrawn at the latest by November 2016.

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 supersedes EN 131-1:2007+A1:2011.

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

Compared to EN 131-1:2007+A1:2011, the following modifications have been made in order to improve the stability of ladders in use:

- a) in figures stabilizers or wider base width for leaning ladders were introduced;
- b) further terms 3.48, 3.49 and 3.50 for stabilizers were added in Clause 3;
- c) requirements for minimum base width for leaning ladders were specified in 4.2.1, Table 2 and Table 6.

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: 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, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, 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.

It applies to portable ladders.

It does not apply to ladders designed for specific professional use such as fire brigade ladders, roof ladders and mobile ladders.

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.

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*