

This document is a preview generated by EVS

Ladders - Part 6: Telescopic ladders

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 131-6:2015 sisaldab Euroopa standardi EN 131-6:2015 ingliskeelset teksti.	This Estonian standard EVS-EN 131-6:2015 consists of the English text of the European standard EN 131-6:2015.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 18.03.2015.	Date of Availability of the European standard is 18.03.2015.
Standard on kättesaadav Eesti Standardikeskusest.	The standard is available from the Estonian Centre for Standardisation.

Tagasisidet standardi sisu kohta on võimalik edastada, kasutades EVS-i veebilehel asuvat tagasiside vormi või saates e-kirja meiliaadressile standardiosakond@evs.ee.

ICS 97.145

Standardite reprodutseerimise ja levitamise õigus kuulub Eesti Standardikeskusele

Andmete paljundamine, taastekitamine, kopeerimine, salvestamine elektroonsesse süsteemi või edastamine ükskõik millises vormis või millisel teel ilma Eesti Standardikeskuse kirjaliku loata on keelatud.

Kui Teil on küsimusi standardite autorikaitse kohta, võtke palun ühendust Eesti Standardikeskusega:

Aru 10, 10317 Tallinn, Eesti; koduleht www.evs.ee; telefon 605 5050; e-post info@evs.ee

The right to reproduce and distribute standards belongs to the Estonian Centre for Standardisation

No part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying, without a written permission from the Estonian Centre for Standardisation.

If you have any questions about copyright, please contact Estonian Centre for Standardisation:

Aru 10, 10317 Tallinn, Estonia; homepage www.evs.ee; phone +372 605 5050; e-mail info@evs.ee

ICS 97.145

English Version

Ladders - Part 6: Telescopic ladders

Échelles - Partie 6: Échelles télescopiques

Leitern - Teil 6: Teleskopleitern

This European Standard was approved by CEN on 3 January 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

Contents

Page

Foreword.....	3
1 Scope	4
2 Normative references	4
3 Terms and definitions	4
4 Functional dimensions.....	7
4.1 General dimensions	7
4.2 Specific dimensions	7
5 Requirements	7
5.1 General requirements.....	7
5.2 Distance between rungs/steps	7
5.3 Additional requirements for the top of leaning ladders.....	7
5.4 Locking of the rung/step sections	7
5.5 Design	8
6 Testing	8
6.1 General.....	8
6.2 Drop test	8
6.3 Strength test of stiles	9
6.4 Bending test of the stiles	9
6.5 Lateral deflection test of the ladder	10
6.6 Bottom stile ends test	11
6.7 Rungs/steps strength test	11
6.7.1 Rungs/steps strength test – locked position	11
6.7.2 Rungs/steps strength test – unlocked position	12
6.7.3 Torsion test of rungs/steps	13
6.7.4 Pull out test of rung/step	13
6.8 Test of opening restraints and hinges of standing ladders	13
6.9 Test of locking mechanism.....	14
6.9.1 Cyclic test of locking mechanism	14
6.9.2 Static test of locking mechanism	15
6.9.3 Cyclic test of hinge joints	15
6.9.4 Requirements	15
6.10 Feet pull test.....	16
6.11 Torsion on ladder length.....	16
6.12 Test methods for plastic ladders	17
6.13 Test methods for plastic rung/step brackets	17
7 Marking and User Instruction	17
7.1 General.....	17
7.2 Marking	17
7.3 User instruction	18
Annex A (normative) Test sequence.....	19
Annex B (informative) A-deviations.....	20
B.1 Deviations from the Netherlands	20
B.2 Deviations from Sweden	21
Bibliography	22

Foreword

This document (EN 131-6:2015) 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 September 2015, and conflicting national standards shall be withdrawn at the latest by September 2015.

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

This European Standard is one of a series about ladders. The other 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 specifies the general design features, requirements and test methods and defines terms for leaning and standing telescopic ladders.

Ladders with extension elements are not covered by this part of EN 131.

This part of the standard is intended to be used in conjunction with EN 131-1:2007+A1:2011, EN 131-2:2010+A1:2012, EN 131-3:2007 and if applicable EN 131-4:2007.

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 131-1:2007+A1:2011, *Ladders - Part 1: Terms, types, functional sizes*

EN 131-2:2010+A1:2012, *Ladders - Part 2: Requirements, testing, marking*

EN 131-3:2007, *Ladders - Part 3: User Instructions*

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

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 131-1 and the following apply.

3.1

telescopic ladder

ladder consisting of three or more rung/step sections with telescopic stiles

Note 1 to entry: Ladders with extension elements like in Figure 1 are not covered by this part of EN 131.