REDELID. OSA 2: NÕUDED, KATSETAMINE, MÄRGISTUS

Ladders - Part 2: Requirements, testing, marking



EESTI STANDARDI EESSÕNA

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See Eesti standard EVS-EN 131-2:2010+A2:2017 sisaldab Euroopa standardi EN 131-2:2010+A2:2017 ingliskeelset teksti.	This Estonian standard EVS-EN 131-2:2010+A2:2017 consists of the English text of the European standard EN 131-2:2010+A2:2017.
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.
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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

January 2017

EN 131-2:2010+A2

ICS 97.145

Supersedes EN 131-2:2010+A1:2012

English Version

Ladders - Part 2: Requirements, testing, marking

Échelles - Partie 2: Exigences, essais, marquage

Leitern - Teil 2: Anforderungen, Prüfung, Kennzeichnung

This European Standard was approved by CEN on 16 April 2012 and includes Amendment 2 approved by CEN on 17 September 2016.

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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 131-2:2010+A2:2017) 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of an identical text or by endorsement, at the latest by July 2017 and conflicting national standards shall be withdrawn at the latest by December 2017.

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 \triangle EN 131-2:2010+A1:2012 and CEN/TS 16665:2014 \triangle .

This document includes Amendment 1, approved by CEN on 2012-04-16 and Amendment 2 approved by CEN on 2016-09-17.

The start and finish of text introduced or altered by amendment is indicated in the text by tags $\boxed{\mathbb{A}}$ $\boxed{\mathbb{A}}$ $\boxed{\mathbb{A}}$ $\boxed{\mathbb{A}}$

A_2 deleted text A_2

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.

(A) Classification is determined in the strength test for all ladders and additionally in the durability test for standing ladders.

A test protocol is being considered for an alternative base slip test on behalf of an expert group of the GPSD committee. (A2)

According to the CEN-CENELEC Internal Regulations, the national standards organisations 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, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Introduction

inhomogeneity of the control of the Due to the unhomogeneity of the material wood, special requirements have been appropriated on this item.

1 Scope

This European Standard specifies the general design features, requirements and test methods for portable ladders.

It does not apply to step stools or ladders for specific professional use such as firebrigade ladders, roof ladders and mobile ladders.

It does not apply to ladders used for work on or near live electrical systems or installations. For this purpose EN 61478 applies.



NOTE For insulating ladders for use on or near low voltage electrical installations EN 50528 applies.

This European Standard is intended to be used in conjunction with EN 131-1.

For single or multiple hinge joint ladders EN 131-4 applies.

A For telescopic ladders EN 131-6 applies.

For mobile ladders with a platform EN 131-7 applies. (42)

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 59, Glass reinforced plastics — Measurement of hardness by means of a Barcol impressor

A EN 131-1:2015 (A), Ladders — Part 1: Terms, types, functional sizes

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

EN 204, Classification of thermoplastic wood adhesives for non-structural applications

EN 301, Adhesives, phenolic and aminoplastic, for load-bearing timber structures — Classification and performance requirements

EN 385, Finger jointed structural timber — Performance requirements and minimum production requirements

EN 386:2001, Glued laminated timber — Performance requirements and minimum production requirements

EN 391:2001, Glued laminated timber — Delamination test of glue lines

EN 392, Glued laminated timber — Shear test of glue lines

EN 408, Timber structures — Structural timber and glued laminated timber — Determination of some physical and mechanical properties

🖎 EN 572-2, Glass in building — Basic soda lime silicate glass products — Part 2: Float glass 🔄

EN 844-9:1997, Round and sawn timber — Terminology — Part 9: Terms relating to features of sawn timber

EN 1310, Round and sawn timber — Method of measurement of features

EN 10088-2:2014, Stainless steels — Part 2: Technical delivery conditions for sheet/plate and strip of corrosion resisting steels for general purposes (A2)

EN 61478, Live working — Ladders of insulating material (IEC 61478:2001)

EN ISO 179-1, Plastics — Determination of Charpy impact properties — Part 1: Non-instrumented impact test (ISO 179-1:2000)

EN ISO 527-1, Plastics — Determination of tensile properties — Part 1: General principles (ISO 527-1:1993 including Corr 1:1994)

EN ISO 527-2, Plastics — Determination of tensile properties — Part 2: Test conditions for moulding and extrusion plastics (ISO 527-2:1993 including Corr 1:1994)

EN ISO 3834-1, Quality requirements for fusion welding of metallic materials — Part 1: Criteria for the selection of the appropriate level of quality requirements (ISO 3834-1:2005)

EN ISO 3834-2, Quality requirements for fusion welding of metallic materials — Part 2: Comprehensive quality requirements (ISO 3834-2:2005)

EN ISO 3834-3, Quality requirements for fusion welding of metallic materials — Part 3: Standard quality requirements (ISO 3834-3:2005)

EN ISO 3834-4, Quality requirements for fusion welding of metallic materials — Part 4: Elementary quality requirements (ISO 3834-4:2005)

EN ISO 4892-2:2006, Plastics — Methods of exposure to laboratory light sources — Part 2: Xenon-arc lamps (ISO 4892-2:2006)

EN ISO 6892-1, Metallic materials — Tensile testing — Part 1: Method of test at room temperature (ISO 6892-1:2009)

EN ISO 14125, Fibre-reinforced plastic composites — Determination of flexural properties (ISO 14125:1998)

EN ISO 14731, Welding coordination — Tasks and responsibilities (ISO 14731:2006)

3 Terms and definitions

For the purposes of this document, the terms and definitions given in \bigcirc EN 131-1:2015 \bigcirc and the following apply.

3.1

thermoset plastic

plastic that has been cured by heat or by other means such as radiation, catalysts, etc., into a substantially infusible and insoluble state

[EN ISO 472:2001]