

Ladders - Part 2: Requirements, testing, marking
CONSOLIDATED TEXT

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EESTI STANDARDI EESSÕNA

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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 20 May 2010 and includes Amendment 1 approved by CEN on 16 April 2012.

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Foreword

This document (EN 131-2:2010+A1:2012) 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of an identical text or by endorsement, at the latest by November 2012 and conflicting national standards shall be withdrawn at the latest by November 2012.

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 A1 EN 131-2:2010 A1.

This document includes Amendment 1, approved by CEN on 2012-04-16.

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

This standard is a revised version of EN 131-2:1993. Compared to the version EN 131-2:1993 the following modifications have been made:

The specifications for plastics in 4.2.3, for wood in 4.2.4 and the test methods in Clause 5 have been completely revised.

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.

On stability tests and ladder classes no consensus could be reached. These issues will be addressed in the next revision.

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, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Introduction

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

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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 in the range below 1000 V a.c or 1 500 V d.c. EN 50528 is under preparation.

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.

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*

EN 131-1:2007, *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 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 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 EN 131-1:2007 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]

3.2

composite material

crosslinkable resin-based material with a continuous reinforcement fibre as filler (e.g. fibreglass)

3.3

thermoplastic material

plastic material other than thermoset plastic or composite with or without filler and with or without reinforcement

3.4

maximal total load

maximum weight that the ladder is designed to support when set up in accordance with the manufacturer's instruction

4 Requirements

4.1 General

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