

**Insulating ladders for use on or near low voltage
electrical installations**

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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 50528:2010 sisaldab Euroopa standardi EN 50528:2010 ingliskeelset teksti.

Standard on kinnitatud Eesti Standardikeskuse 31.08.2010 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.

Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 14.05.2010.

Standard on kättesaadav Eesti standardiorganisatsioonist.

This Estonian standard EVS-EN 50528:2010 consists of the English text of the European standard EN 50528:2010.

This standard is ratified with the order of Estonian Centre for Standardisation dated 31.08.2010 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.

Date of Availability of the European standard text 14.05.2010.

The standard is available from Estonian standardisation organisation.

ICS 13.260, 97.145

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Insulating ladders for use on or near low voltage electrical installations

Echelles isolantes pour utilisation
sur ou à proximité des installations
électriques basse tension

Isolierende Leitern für Arbeiten
an oder in der Nähe
von Niederspannungsanlagen

This European Standard was approved by CENELEC on 2010-05-01. CENELEC 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.

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CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

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Foreword

This European Standard was prepared by the Technical Committee CENELEC TC 78, Equipment and tools for live working. It was submitted to the formal vote and was approved by CENELEC as EN 50528 on 2010-05-01.

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The following dates were fixed:

- latest date by which the EN has to be implemented
at national level by publication of an identical
national standard or by endorsement (dop) 2011-05-01
 - latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2013-05-01
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Contents

Introduction	4
1 Scope	5
2 Normative references	5
3 Terms and definitions	5
4 Requirements	7
4.1 Safety requirements	7
4.2 Functional requirements	7
4.3 Electrical requirements	9
4.4 Mechanical requirements	9
4.5 Markings	9
4.6 Instruction for use	9
5 Verification and testing	10
5.1 General	10
5.2 Design, dimensions, construction	11
5.3 Mechanical tests	11
5.4 Marking	12
5.5 Instruction for use	12
5.6 Electrical tests	12
6 Conformity evaluation	13
7 Modifications	13
Annex A (normative) Classification of defects and associated requirements and tests	18
Annex B (informative) In-service recommendations	19
B.1 General	19
B.2 Use and storage	19
B.3 Inspection before use	19
B.4 Maintenance	19
Annex C (normative) General test procedure	21
Bibliography	22

Figures

Figure 1 – Cradle sketch plan (given as an example)	14
Figure 2 – Test on stiles – Configuration and type of electrodes used	15
Figure 3 – Examples of foot leveller device, adjustable feet and adjustable ladder stabilizer	16
Figure 4 – Example of individual standing platform	17

Tables

Table A.1 – Classification of defects and associated requirements and tests	18
Table C.1 – Sequential order for performing tests	21

Introduction

Ladders covered by this European Standard are used to work on low voltage live parts, such as to perform connector fittings, repair on pole, switching actions. They are also used to carry out operations prior to dead working, as in the case of voltage detection, earthing and short-circuiting, etc.

In all these cases the ladders has two main functions, to reach the part of the installation that needs to be operated on and to protect the worker from risk of electrical injury, by providing the insulation level and maintaining the safety distance between the worker and the live or potentially live installation.

Taking the local risk assessment into account, additional protection (either personal or collective) can be furthermore considered.

This European Standard contributes to the safety of the users provided they are trained to the operations envisaged.

Additional requirements when using the ladders should be considered to fulfil the European Directives and national regulations.

The ladder is used in accordance with EN 50110 series.

This European Standard has been prepared in accordance with the requirements of EN 61477.

1 Scope

This European Standard is applicable to portable ladders made of non conductive stiles, including accessories (cradle, adjustable foot, adjustable ladder stabilizer, foot leveller device, etc.) used to work on or near electrical systems and installations in the low voltage range (below 1 000 V a.c./1 500 V d.c.).

These ladders are used, to provide temporary access, generally on overhead line structures and to undertake electrical operations. They shall be used by one person only

These ladders are not intended to be put in direct contact with energized parts nevertheless they provide sufficient insulation level to protect against inadvertent contact with low voltage live parts.

The requirements and tests described in this European Standard shall be considered in addition to the EN 131 series.

NOTE This European Standard does not cover ladders for applications upper than 1 000 V a.c./1 500 V d.c. These products are separately covered by a specific standard (EN 61478).

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 131-1:2007, *Ladders – Part 1: Terms, types, functional sizes*

EN 131-2:1993, *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*

EN 60068-1:1994, *Environmental testing – Part 1: General and guidance* (IEC 60068-1:1988 + corrigendum Oct. 1988 + A1:1992)

EN 61318:2008, *Live working – Conformity assessment applicable to tools, devices and equipment* (IEC 61318:2007)

EN 61477:2009, *Live working – Minimum requirements for the utilization of tools, devices and equipment* (IEC 61477:2009 + corrigendum Apr. 2009)

EN 61478:2001 + A1:2003, *Live working – Ladders of insulating material* (IEC 61478:2001 + A1:2003, mod.)

IEC 60417, *Graphical symbols for use on equipment*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

NOTE 1 Further information on terminology is given in EN 131-1.

NOTE 2 The term “ladder” is used in this document for “ladders for use on or near low voltage installations”.