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NSAI Standards

Irish Standard
I.S. EN 50528:2010

Insulating ladders for use on or near low voltage electrical installations

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 50528

May 2010

ICS 97.145;13.260

English version

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.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC 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 CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

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CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
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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.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN and CENELEC shall not be held responsible for identifying any or all such patent rights.

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– latest date by which the national standards conflicting with the EN have to be withdrawn	(dow)	2013-05-01

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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.

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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”.

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