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Standards

Irish Standard
I.S. HD 60364-7-729:2009

Low-voltage electrical installations -- Part 7-729: Requirements for special installations or locations - Operating or maintenance gangways (IEC 60364-7 -729:2007 (MOD))

I.S. HD 60364-7-729:2009

Incorporating amendments/corrigenda issued since publication:

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**Low-voltage electrical installations -
Part 7-729: Requirements for special installations or locations -
Operating or maintenance gangways
(IEC 60364-7-729:2007, modified)**

Installations électriques à basse tension -
Partie 7-729: Règles pour les installations
et emplacements spéciaux -
Passages d'entretien ou de service
(CEI 60364-7-729:2007, modifiée)

Errichten von Niederspannungsanlagen -
Teil 7-729: Anforderungen
für Betriebsstätten, Räume
und Anlagen besonderer Art -
Bedienungsgänge und Wartungsgänge
(IEC 60364-7-729:2007, modifiziert)

This Harmonization Document was approved by CENELEC on 2009-04-22. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for implementation of this Harmonization Document at national level.

Up-to-date lists and bibliographical references concerning such national implementations may be obtained on application to the Central Secretariat or to any CENELEC member.

This Harmonization Document exists in three official versions (English, French, German).

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

CENELEC

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

Central Secretariat: Avenue Marnix 17, B - 1000 Brussels

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Foreword

The text of document 64/1595/FDIS, future edition 1 of IEC 60364-7-729, prepared by IEC TC 64, Electrical installations and protection against electric shock, was submitted to the IEC-CENELEC parallel vote.

A draft amendment, prepared by the former SC 64A, Protection against electric shock, of Technical Committee CENELEC TC 64, Electrical installations and protection against electric shock, was submitted to the formal vote.

The combined texts were approved by CENELEC as HD 60364-7-729 on 2009-04-22.

The following dates were fixed:

- | | | |
|--|-------|------------|
| - latest date by which the existence of the HD has to be announced at national level | (doa) | 2009-11-01 |
| - latest date by which the HD has to be implemented at national level by publication of a harmonized national standard or by endorsement | (dop) | 2010-05-01 |
| - latest date by which the national standards conflicting with the HD have to be withdrawn | (dow) | 2012-05-01 |

In this document, the common modifications to the International Standard are indicated by a vertical line in the left margin of the text.

For this Harmonization Document, the informative Annex B of IEC 60364-7-729:2007 shall be disregarded and has been replaced by the normative Annex ZA, *Special national conditions*, and the informative Annex ZB, *A-deviations*.

Annexes ZA and ZB have been added by CENELEC.

729 Introduction

The requirements of this part of HD 60364 supplement, modify or replace certain of the general requirements of the other parts of HD 60364.

The clause numbering of Part 7-729 follows the pattern and corresponding references of HD 60364. The numbers following the particular number of Part 7-729 are those of the corresponding parts or clauses of HD 60364.

The absence of reference to a part, clause or subclause means that the corresponding general requirements are applicable.

729.1 Scope

The requirements of this part of HD 60364 apply to basic protection and other aspects in restricted access areas with switchgear and controlgear assemblies, including requirements for operating or maintenance gangways.

729.2 Normative references

The following normative documents contain provisions which through reference in this text, constitute provisions of this part of HD 60364. For dated references, subsequent amendments to, or revisions of any of these publications do not apply.

HD 60364-1:2008, *Low-voltage electrical installations – Part 1: Fundamental principles, assessment of general characteristics, definitions* (IEC 60364-1:2005, mod.)

HD 60364-4-41, *Low-voltage electrical installations – Part 4-41: Protection for safety – Protection against electric shock* (IEC 60364-4-41, mod.)

729.30 Assessment of general characteristics

Add the following requirements:

For restricted access areas the following apply:

- restricted access areas shall be clearly and visibly marked by appropriate signs;
- unauthorised persons shall not have access to restricted access areas;
- door(s) provided for closed restricted access areas shall allow easy evacuation to the outside by opening without the use of a key, tool or any other device which not part of the opening mechanism.

729.410.3.7

Replace the paragraph with the following requirements:

In restricted access areas where it is not reasonably practicable to provide protective measures for basic protection (protection against direct contact) in accordance with HD 60364-4-41, minimum distances are required.

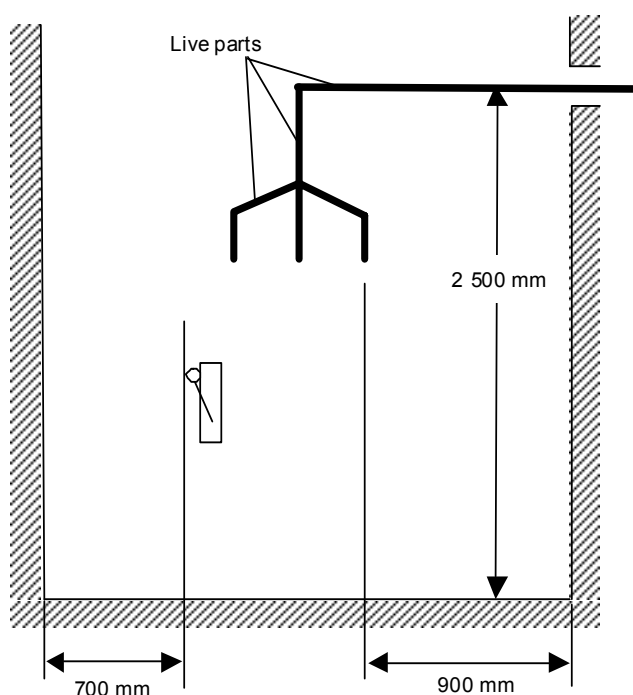
NOTE 1 See HD 60364-1, Clause 30 for assessment of general characteristics when deciding to use this method of protection.

NOTE 2 In cases of protective device with high rating, such as large circuit-breakers, greater distances may be necessary for the withdrawing of the device.

729.410.3.7.1

Where the gangway has unprotected live parts arranged on one side only (see Figure 729.1), the minimum distances shall be:

- | | | |
|----|---|-----------|
| a) | width of gangway between the wall and live parts | 900 mm; |
| b) | free passage in front of controls (handles, etc.) | 700 mm; |
| c) | height of live parts above the floor | 2 500 mm. |



NOTE The 2 500 mm height above the floor given as the minimum distance to live parts applies only in the gangway where it is possible for persons to stand or walk.

Figure 729.1 – Gangways in installations with live parts on one side

729.410.3.7.2

Where the gangway has live parts on both sides (see Figure 729.2), the minimum distances shall be:

- | | | |
|----|---|-----------|
| a) | width of gangway between live parts | 1 300 mm; |
| b) | minimum distance between the front of the handle and the live parts on the opposite side of the gangway | 1 100 mm; |
| c) | minimum free passage in front of controls (handles, isolation position of circuit breakers, etc.) | 900 mm; |
| d) | height of live parts above the floor | 2 500 mm. |

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