

**Ehitiste elektripaigaldised. Osa 5-51: Elektriseadmete
valik ja paigaldamine. Üldjuhised**

Electrical installations of buildings - Part 5-51: Selection and
erection of electrical equipment - Common rules

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-HD 60364-5-51:2009 sisaldab Euroopa standardi HD 60364-5-51:2009 ingliskeelset teksti.

Standard on kinnitatud Eesti Standardikeskuse 30.10.2009 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.

Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 09.09.2009.

Standard on kättesaadav Eesti standardiorganisatsioonist.

This Estonian standard EVS-HD 60364-5-51:2009 consists of the English text of the European standard HD 60364-5-51:2009.

This standard is ratified with the order of Estonian Centre for Standardisation dated 30.10.2009 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 09.09.2009.

The standard is available from Estonian standardisation organisation.

ICS 13.260, 91.140.50

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English version

**Electrical installations of buildings -
Part 5-51: Selection and erection of electrical equipment -
Common rules
(IEC 60364-5-51:2005, modified)**

Installations électriques des bâtiments -
Partie 5-51: Choix et mise en oeuvre
des matériels électriques -
Règles communes
(CEI 60364-5-51:2005, modifiée)

Errichten von Niederspannungsanlagen -
Teil 5-51: Auswahl und Errichtung
elektrischer Betriebsmittel -
Allgemeine Bestimmungen
(IEC 60364-5-51:2005, modifiziert)

This Harmonization Document was approved by CENELEC on 2009-04-01. 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

Foreword

The text of the International Standard IEC 60364-5-51:2005, prepared by IEC TC 64, Electrical installations and protection against electric shock, together with common modifications prepared by SC 64B, Protection against thermal effects, of Technical Committee CENELEC TC 64, Electrical installations and protection against electric shock, was submitted to the formal vote and was approved by CENELEC as HD 60364-5-51 on 2009-04-01.

This Harmonization Document supersedes HD 60364-5-51:2006.

The main changes with respect to HD 60364-5-51:2006 are listed below:

- corrections of misprints in Table 51 based on Table 321 derived from the old Part 3;
- introduction of a new Clause 516 dealing with measures for mitigation of protective conductor currents.

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

The following dates were fixed:

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|--|-------|------------|
| – latest date by which the existence of the HD has to be announced at national level | (doa) | 2009-10-01 |
| – latest date by which the HD has to be implemented at national level by publication of a harmonized national standard or by endorsement | (dop) | 2010-04-01 |
| – latest date by which the national standards conflicting with the HD have to be withdrawn | (dow) | 2012-04-01 |

Annexes ZA, ZB, ZC, ZD and ZE have been added by CENELEC.

Clauses, subclauses, notes, tables and figures which are additional to those in IEC 60364-5-51:2005 are prefixed “Z”.

510 Introduction

510.1 Scope

This part of HD 60364 deals with the selection of equipment and its erection. It provides common rules for compliance with measures of protection for safety, requirements for proper functioning for intended use of the installation, and requirements appropriate to the external influences foreseen.

510.2 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 60073, *Basic and safety principles for man-machine interface, marking and identification – Coding principles for indication devices and actuators* (IEC 60073)

HD 60364-4-41:2007, *Low-voltage electrical installations – Part 4-41: Protection for safety – Protection against electric shock* (IEC 60364-4-41:2005, mod.)

HD 60364-4-443:2006, *Electrical installations of buildings – Part 4-44: Protection for safety – Protection against voltage disturbances and electromagnetic disturbances – Clause 443: Protection against overvoltages of atmospheric origin or due to switching* (IEC 60364-4-44:2001/A1:2003, mod.)

HD 384.5.52 S1:1995, *Electrical installations of buildings – Part 5: Selection and erection of electrical equipment – Chapter 52: Wiring systems* (IEC 60364-5-52:1993, mod.)

HD 60364-5-54:2007, *Low-voltage electrical installations – Part 5-54: Selection and erection of electrical equipment – Earthing arrangements, protective conductors and protective bonding conductors* (IEC 60364-5-54:2002, mod.)

EN 60446, *Basic and safety principles for man-machine interface, marking and identification – Identification of conductors by colours or numerals* (IEC 60446)

EN 60447, *Basic and safety principles for man-machine interface, marking and identification – Actuating principles* (IEC 60447)

IEC 60617 database, *Graphical symbols for diagrams*.

EN 60695 series, *Fire hazard testing* (IEC 60695 series)

EN 61082 series, *Preparation of documents used in electrotechnology* (IEC 61082 series)

EN 61140:2002, *Protection against electric shock – Common aspects for installation and equipment* (IEC 61140:2001)

EN 61346-1, *Industrial systems, installations and equipment and industrial products – Structuring principles and reference designations – Part 1: Basic rules* (IEC 61346-1)

HD 308 S2, *Identification of cores in cables and flexible cords*

510.3 General

Every item of equipment shall be selected and erected so as to allow compliance with the rules stated in the following clauses of this part of HD 60364 and the relevant rules in other parts of the HD 384/60364 series.