

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Electrical installations of buildings –
Part 5-55: Selection and erection of electrical equipment – Other equipment**

**Installations électriques des bâtiments –
Partie 5-55: Choix et mise en œuvre des matériels électriques – Autres matériels**



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INTERNATIONAL ELECTROTECHNICAL COMMISSION

ELECTRICAL INSTALLATIONS OF BUILDINGS –**Part 5-55: Selection and erection of electrical equipment –
Other equipment**

FOREWORD

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International Standard IEC 60364-5-55 has been prepared by IEC technical committee 64: Electrical installations and protection against electric shock.

This second edition cancels and replaces the first edition, published in 2001, its Amendment 1 (2001) and its Amendment 2 (2008).

The major technical changes with respect to the previous edition are listed below:

- additional requirements for connection of luminaires to the fixed wiring;
- modification of requirements regarding the fixing of luminaires;
- inclusion of alternative solutions for connecting devices used for through wiring and for connection of luminaires to the supply;
- withdrawal of Clause 556, as IEC 60364-5-56 now covers this matter.

The text of this standard is based on the following documents:

FDIS	Report on voting
64/1805/FDIS	64/1813/RVD

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts in the IEC 60364 series, under the general title *Low-voltage electrical installations*, can be found on the IEC website.

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC website under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

ELECTRICAL INSTALLATIONS OF BUILDINGS –

Part 5-55: Selection and erection of electrical equipment – Other equipment

550 Introduction

550.1 Scope

This part of IEC 60364 covers requirements for the selection and erection of low-voltage generating sets and for the selection and erection of luminaires and lighting installations intended to be part of the fixed installation.

550.2 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.

IEC 60050-195, *International Electrotechnical Vocabulary – Part 195: Earthing and protection against electric shock*

IEC 60050-826, *International Electrotechnical Vocabulary – Part 826: Electrical installations*

IEC 60079 (all parts), *Explosive atmospheres*

IEC 60245-3, *Rubber insulated cables – Rated voltages up to and including 450/750 V – Part 3: Heat resistant silicone insulated cables*

IEC 60331-11, *Tests for electric cables under fire conditions – Circuit integrity – Part 11: Apparatus – Fire alone at a flame temperature of at least 750 °C*

IEC 60331-21, *Tests for electric cables under fire conditions – Circuit integrity – Part 21: Procedures and requirements – Cables of rated voltage up to and including 0,6/1,0 kV*

IEC 60364-1:2005, *Low-voltage electrical installations – Part 1: Fundamental principles, assessment of general characteristics, definitions*

IEC 60364-4-41:2005, *Low-voltage electrical installations – Part 4-41: Protection for safety – Protection against electric shock*

IEC 60364-4-42, *Low-voltage electrical installations – Part 4-42: Protection for safety – Protection against thermal effects*

IEC 60364-4-43, *Low-voltage electrical installations – Part 4-43: Protection for safety – Protection against overcurrent*

IEC 60364-5-53:2001, *Electrical installations of buildings – Part 5-53: Selection and erection of electrical equipment – Isolation, switching and control*

IEC 60364-7-712, *Electrical installations of buildings – Part 7-712: Requirements for special installations or locations – Solar photovoltaic (PV) power supply systems*

IEC 60364-7-717, *Low-voltage electrical installations – Part 7-717: Requirements for special installations or locations – Mobile or transportable units*

IEC 60417 (all parts), *Graphical symbols for use on equipment*

IEC 60570, *Electrical supply track systems for luminaires*

IEC 60598 (all parts), *Luminaires*

IEC 60598-2-13:2006, *Luminaires – Part 2-13: Particular requirements – Ground recessed luminaires*

IEC 60598-2-22:1997, *Luminaires – Part 2-22: Particular requirements – Luminaires for emergency lighting*

IEC 60670 (all parts), *Boxes and enclosures for electrical accessories for household and similar fixed electrical installations*

IEC 60670-21, *Boxes and enclosures for electrical accessories for household and similar fixed electrical installations – Part 21: Particular requirements for boxes and enclosures with provision for suspension means*

IEC 60702-1, *Mineral insulated cables and their terminations with a rated voltage not exceeding 750 V – Part 1: Cables*

IEC 60702-2, *Mineral insulated cables and their terminations with a rated voltage not exceeding 750 V – Part 2: Terminations*

IEC 60998 (all parts), *Connecting devices for low-voltage circuits for household and similar purposes – Part 1: General requirements*

IEC 61048:2006, *Auxiliaries for lamps – Capacitors for use in tubular fluorescent and other discharge lamp circuits – General and safety requirements*

IEC 61535, *Installation couplers intended for permanent connection in fixed installations*

IEC 61995 (all parts), *Devices for the connection of luminaires for household and similar purposes*

ISO 8528-12, *Reciprocating internal combustion engine driven alternating current generating sets – Part 12: Emergency power supply to safety services*

550.3 Terms and definitions

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

550.3.1

self-contained battery unit

unit comprising a battery and a charging and testing unit

550.3.2

non-maintained mode

operating mode of electrical equipment, essential for safety services, operating only when the normal supply fails

550.3.3

maintained mode

operating mode of electrical equipment, essential for safety services, operating at all times

550.3.4

safety services

those services in a building which are essential