

# SLOVENSKI STANDARD

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Electrical installations of buildings - Part 7-740: Requirements for special installations or locations - Temporary electrical installations for structures, amusement devices and booths at fairgrounds, amusement parks and circuses

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**Installations électriques des bâtiments –**

**Partie 7-740:**

**Règles pour les installations ou emplacements  
spéciaux – Installations électriques temporaires  
de structures, jeux et baraques dans des champs  
de foire, des parcs de loisirs et des cirques**

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**Electrical installations of buildings –**

**Part 7-740:**

**Requirements for special installations or  
locations – Temporary electrical installations  
for structures, amusement devices and booths  
at fairgrounds, amusement parks and circuses**

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

## ELECTRICAL INSTALLATIONS OF BUILDINGS –

**Part 7-740: Requirements for special installations or locations –  
Temporary electrical installations for structures, amusement devices  
and booths at fairgrounds, amusement parks and circuses**

## FOREWORD

- 1) The IEC (International Electrotechnical Commission) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, the IEC publishes International Standards. Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. The IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
- 2) The formal decisions or agreements of the IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested National Committees.
- 3) The documents produced have the form of recommendations for international use and are published in the form of standards, technical specifications, technical reports or guides and they are accepted by the National Committees in that sense.
- 4) In order to promote international unification, IEC National Committees undertake to apply IEC International Standards transparently to the maximum extent possible in their national and regional standards. Any divergence between the IEC Standard and the corresponding national or regional standard shall be clearly indicated in the latter.
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- 6) Attention is drawn to the possibility that some of the elements of this International Standard may be the subject of patent rights. The IEC shall not be held responsible for identifying any or all such patent rights.

International Standard IEC 60364-7-740 has been prepared by IEC technical committee 64: Electrical installations and protection against electric shock.

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

FDIS	Report on voting
64/1132/FDIS	64/1161/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 3.

The committee has decided that the contents of this publication will remain unchanged until 2006. At this date, the publication will be

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

## INTRODUCTION

The requirements of this part of IEC 60364 supplement, modify or replace certain of the general requirements of IEC 60364.

The clause numbering follows the pattern and corresponding references of IEC 60364.

The numbers following the particular number of part 7-740 are those of the corresponding parts or clauses of IEC 60364.

The absence of reference to a chapter, a section or a clause means that the corresponding general requirements of IEC 60364 are applicable.

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## ELECTRICAL INSTALLATIONS OF BUILDINGS –

### Part 7-740: Requirements for special installations or locations – Temporary electrical installations for structures, amusement devices and booths at fairgrounds, amusement parks and circuses

#### 740.1 Scope, object and fundamental principles

##### 740.1.1 Scope

This part of IEC 60364 specifies the minimum electrical installation requirements to facilitate the safe design, installation and operation of mobile, temporarily or permanently installed electrical machines and structures which incorporate electrical equipment. The machines and structures are intended to be installed repeatedly, without loss of safety, temporarily or permanently, at fairgrounds, amusement parks, circuses or any other places.

For non-electrical safety, refer to CEN TC 152.

The object of this part of IEC 60364 is to define the electrical installation requirements for such structures and machines, both being either integral parts or constituting the total amusement device.

This part does not apply to the electrical equipment of machines (see IEC 60204-1).

##### 740.1.2 Normative references

[SIST IEC 60364-7-740:2006  
https://standards.iteh.ai/catalog/standards/sist/20ec108e-b953-4f32-8fd6-719d802a3a4/sist-iec-60364-7-740-2006](https://standards.iteh.ai/catalog/standards/sist/20ec108e-b953-4f32-8fd6-719d802a3a4/sist-iec-60364-7-740-2006)

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of IEC 60364. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this part of IEC 60364 are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of IEC and ISO maintain registers of currently valid normative documents.

IEC 60038:1983, *IEC standard voltages*

IEC 60050(826):1982, *International Electrotechnical Vocabulary (IEV) – Chapter 826: Electrical installations of buildings*

IEC 60204-1:1997, *Safety of machinery – Electrical equipment of industrial machines – Part 1: General requirements*

IEC 60332-1:1993, *Tests on electric cables under fire conditions – Part 1: Tests on a single vertical, insulated wire or cable*

IEC 60332-3:1992, *Tests on electric cables under fire conditions – Part 3: Tests on bunched wires or cable*

IEC 60364-3:1993, *Electrical installations of buildings – Part 3: Assessment of general characteristics*

IEC 60364-4-41:1992, *Electrical installations of buildings – Part 4: Protection for safety – Chapter 41: Protection against electric shock*

IEC 60364-4-481:1993, *Electrical installations of buildings – Part 4: Protection for safety – Chapter 48: Choice of protective measures as a function of external influences – Section 481: Selection of measures for protection against electric shock in relation to external influences*

IEC 60364-5-54:1980, *Electrical installations of buildings – Part 5: Selection and erection of electrical equipment – Chapter 54: Earthing arrangements and protective conductors*

IEC 60947-2:1995, *Low-voltage switchgear and controlgear – Part 2: Circuit-breakers*

IEC 61008-1:1996, *Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCBs) – Part 1: General rules*

IEC 61009-1:1996, *Residual current operated circuit-breakers with integral overcurrent protection for household and similar uses (RCBOs) – Part 1: General rules*

IEC 61034 (all parts), *Measurement of smoke density of cables burning under defined conditions*

IEC 61046:1993, *DC or a.c. supplied electronic step-down convertors for filament lamps – General and safety requirements*

IEC 61558-2-6:1997, *Safety of power transformers, power supply units and similar – Part 2: Particular requirements for safety isolating transformers for general use*

IEC 62020:1998, *Electrical accessories – Residual current monitors for household and similar uses (RCMs)*

CEN TC 152: *Non-permanent structures and equipment for fairgrounds and amusement parks: Safety*

## **740.2 Definitions**

For the purpose of this part of IEC 60364, the definitions given in IEC 60050(826) as well as the following definitions apply.

### **740.2.1**

#### **fairground**

area where one or more stands, amusement devices or booths are erected for leisure use

### **740.2.2**

#### **booth**

unit, usually movable, intended to accommodate equipment generally for pleasure or demonstration purposes



**740.2.3****stand**

area or temporary structure used for display, marketing, sales, entertainment

**740.2.4****amusement device**

ride, stand, textile or membrane building, side stall, side show, tent, booth, grandstand intended for the entertainment of the public

**740.3 Assessment of general characteristics****740.31 Purposes, supplies and structure****740.313 Supplies****740.313.1.3 Voltage**

The nominal supply voltage of temporary electrical installations in booths, stands and amusement devices shall not exceed 230/400 V a.c. in accordance with IEC 60038.

**740.313.3 Supply from the public network**

Irrespective of the number of sources of supply, the phase and neutral conductors from different sources shall not be interconnected. The instructions of the supply network operator shall be followed.

**740.4 Protection for safety****740.41 Protection against electric shock****740.412 Protection against electric shock in normal service  
(protection against direct contact, or basic protection)****740.412.5 Additional protection by residual current devices**

Except for emergency lighting, all final circuits for lighting, socket-outlets rated up to 32 A and portable equipment connected by means of flexible cable or cord with a current-carrying capacity of 32 A or less shall be additionally protected by RCDs with a rated residual operating current not exceeding 30 mA.

This requirement does not apply to socket-outlets supplied by a circuit incorporating one or more of the protective measures specified below:

- protection by SELV;
- protection by electrical separation;
- protection by automatic disconnection of supply and reduced low voltage.

**740.413 Protection against indirect contact****740.413.1 Protection by automatic disconnection of supply**

NOTE For supplies to large a.c. motors, the use of RCDs with time delay is recommended.