



SLOVENSKI STANDARD
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Low-voltage electrical installations - Part 7-704: Requirements for special installations or locations - Construction and demolition site installations

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Installations électriques basse tension - Partie 7-704: Exigences pour les installations ou emplacements spéciaux - Installations de chantiers de construction et de démolition

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Section 704 — Installations de chantiers

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Electrical installations of buildings

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Part 7:

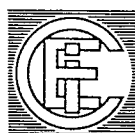
Requirements for special installations or
locations

Section 704 — Construction and demolition
site installations



REPUBLIKA SLOVENIJA
MINISTRSTVO ZA ZNANOST IN TEHNOLOGIJO
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INTERNATIONAL ELECTROTECHNICAL COMMISSION

ELECTRICAL INSTALLATIONS OF BUILDINGS

Part 7: Requirements for special installations or locations

Section 704 - Construction and demolition site installations

FOREWORD

- 1) The formal decisions or agreements of the IEC on technical matters, prepared by Technical Committees on which all the National Committees having a special interest therein are represented, express, as nearly as possible, an international consensus of opinion on the subjects dealt with.
- 2) They have the form of recommendations for international use and they are accepted by the National Committees in that sense.
- 3) In order to promote international unification, the IEC expresses the wish that all National Committees should adopt the text of the IEC recommendation for their national rules in so far as national conditions will permit. Any divergence between the IEC recommendation and the corresponding national rules should, as far as possible, be clearly indicated in the latter.

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PREFACE

This standard has been prepared by IEC Technical Committee No. 64: Electrical installations of buildings.

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

Six Months' Rule	Report on Voting
64(C0)166	64(C0)177

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

The following IEC publications are quoted in this standard:

- Publications Nos. 364: Electrical installations of buildings.
- 364-1 (1972): Part 1: Scope, object and definitions.
 - 364-2 (1970): Part 2: Fundamental principles.
 - 364-3 (1977): Part 3: Assessment of general characteristics.
 - 364-4: Part 4: Protection for safety.
 - 364-5: Part 5: Selection and erection of electrical equipment.
 - 364-6-61 (1986): Part 6: Verification. Chapter 61: Initial verification.
 - 364-7-706 (1983): Part 7: Requirements for special installations or locations. Section 706 - Restrictive conducting locations.
 - 621-1 (1987): Electrical installations for outdoor sites under heavy conditions (including open-cast mines and quarries), Part: 1 Scope and definitions.

ELECTRICAL INSTALLATIONS OF BUILDINGS

Part 7: Requirements for special installations or locations

Section 704 - Construction and demolition site installations

700.1 INTRODUCTION

The requirements of Part 7 supplement, modify or annul the general requirements of the other parts of IEC Publication 364.

The numbers following the particular number of section of Part 7 are those of the corresponding parts, chapters, sections or clauses of IEC Publication 364.

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

704. Construction and demolition site installations

704.1 Scope

704.1.1 The special requirements of this section apply to temporary installations provided for:

- works of new building construction;
- works of repair, alteration, extension, or demolition of existing buildings;
- public engineering works;
- earthworks;
- and similar works.

The rules do not apply to installations covered by IEC Publication 621, or to other installations where equipment of a similar nature to that used in surface mining applications is involved.

Parts of buildings which undergo structural alterations, such as extension, major repair or demolition, are considered to be like construction sites during the period of relevant works, to the extent that the work necessitates the provision of a temporary installation.

For the administrative locations of construction sites (offices, cloakrooms, meeting rooms, canteens, restaurants, dormitories, toilets, etc.) the general rules of Parts 1 to 6 of IEC Publication 364 apply.

Note.- For special situations, more severe requirements apply, e.g. Section 706 for restrictive conductive locations.

704.1.5 In construction sites, fixed installations are limited to the assembly comprising the main controlgear and the principal protective devices (see 704-537).

Installations on the load side are considered as movable installations except for parts which are designed according to Chapter 52: Wiring systems.

704.3 Assessment of general characteristics

704.313 *Supplies*

704.313.1.3 Equipment shall be identified with the particular supply from which it is energized, and shall contain only components connected to one and the same installation, except for control or signalling circuits and input from standby supplies.

Note.- One construction site may be served by several sources of supply, including fixed or mobile power generators.

704.4 Protection for safety

704.41 *Protection against electric shock*

704.413.1 *Protection by automatic disconnection of supply*

704.413.1.5 *IT systems*

When IT systems are used, earth fault monitoring shall be provided.

704.471 *Measures of protection against electric shock*

In addition to Section 471 the following rules shall apply:

When protection of persons against indirect contact is provided by the measure of protection by automatic disconnection of supply appropriate to the type of earthing system (413.1), the conventional voltage limit U_L shall be limited to 25 V a.c., r.m.s. or 60 V ripple free d.c.

Note.- Protection by reduced low voltage system in which the highest voltage shall not exceed 110 V a.c. between phases and 55 V a.c. to earth (single phase) or 63,5 V a.c. to earth (three phases) is considered as a particular application of the protection measure by automatic disconnection of supply in the TN system according to Clause 413.1.

Socket-outlets shall either be protected by residual current devices having rated operating current not exceeding 30 mA (412.5) or be supplied at safety extra-low voltage (411.1), or have electrical separation of circuits, each socket-outlet being supplied by a separate transformer (413.5).

364-7-704 © IEC

- 9 -

704.5 Selection and erection of equipment

704.51 *Common rules*

704.511.1 All assemblies for distribution of electricity on construction and demolition sites shall comply with the requirements of the future IEC Publication 439-4.

704.512.2 Fixed equipment and installation equipment (e.g. couplers) shall have a degree of protection of at least IP 44.

Assemblies for construction sites shall have degrees of protection as specified in the future IEC Publication 439-4.

Other equipment shall have degrees of protection according to external influences.

704.52 *Wiring systems*

704.521.1.7.3 Wiring shall be so arranged that no strain is placed on the terminations of conductors unless they are specially designed for this purpose.

To avoid damage, cables should not be run across site roads or walkways. Where this is necessary special protection against mechanical damage and contact with construction plant shall be provided.

704.53 *Switchgear and controlgear*704.537 *Devices for isolation and switching*

At the origin of each installation, an assembly comprising the main controlgear and the principal protective devices shall be provided.

A device or devices shall be provided on the incoming cable to each supply assembly and each distribution assembly for switching and isolating.

Means of emergency switching shall be provided on the supply to all current-using equipment on which it may be necessary to disconnect all live conductors in order to remove a hazard.

The isolating and protective devices of distribution circuit may be contained in the main assembly or in separate assemblies fed from the main assembly.

Incoming power isolating devices shall be suitable for securing in the off position (see 462.3) (for example, a padlock or location inside a lockable enclosure).

The supply to current-using apparatus shall be effected by distribution assemblies, each assembly comprising:

- overcurrent protective devices;
- devices affording protection against indirect contact;
- socket-outlets.

Safety and standby supplies shall be connected by means of devices arranged to prevent interconnection of the different supplies.

704.538 *Plugs and socket-outlets*

Socket-outlets shall be arranged either:

- inside the assemblies described in 704.537; or
- outside on the walls of such assemblies.

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