

SLOVENSKI STANDARD

SIST HD 384.7.704 S1:2001

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Električne inštalacije zgradb – 7. del: Zahteve za posebne inštalacije ali lokacije – 704. oddelek: Gradbišča (IEC 60364-7-704:1989, spremenjen)

Electrical installations of buildings -- Part 7: Requirements for special installations or locations -- Section 704: Construction and demolition site installations

Elektrische Anlagen von Gebäuden -- Teil 7: Anforderungen für Betriebsstätten, Räume und Anlagen besondere Art -- Hauptabschnitt 704: Baustellen

Installations électriques des bâtiments -- Partie 7: Règles pour les installations et emplacements spéciaux -- Section 704: Installations de chantiers

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HARMONIZATION DOCUMENT

HD 384.7.704 S1

DOCUMENT D'HARMONISATION

HARMONISIERUNGSDOKUMENT

November 2000

ICS 91.140.50

English version

Electrical installations of buildings
Part 7: Requirements for special installations or locations
Section 704: Construction and demolition site installations
(IEC 60364-7-704:1989, modified)

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[1d2e17e6e7c0/sist-hd-384-7-704-s1-2001](https://standards.iteh.ai/catalog/standards/sist/da0acc6f-92e5-4a8a-a4fb-1d2e17e6e7c0/sist-hd-384-7-704-s1-2001)

This Harmonization Document was approved by CENELEC on 1999-08-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for implementation of this Harmonization Document on a national level.

Up-to-date lists and bibliographical references concerning such national implementation 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, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CENELEC

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

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

Foreword

The text of the International Standard IEC 60364-7-704:1989, prepared by IEC TC 64, Electrical installations and protection against electric shock, together with common modifications prepared by SC 64A, Protection against electric shock, of Technical Committee CENELEC TC 64, Electrical installations of buildings, was submitted to the formal vote and was approved by CENELEC as HD 384.7.704 S1 on 1999-08-01.

The following dates were fixed:

- latest date by which the existence of the HD
has to be announced at national level (doa) 2000-02-01
- latest date by which the HD has to be implemented
at national level by publication of a harmonized
national standard or by endorsement (dop) 2001-05-01
- latest date by which the national standards conflicting
with the HD have to be withdrawn (dow) 2002-08-01

Annexes designated "normative" are part of the body of the standard.

In this standard, annexes ZA and ZB are normative.

Annexes ZA and ZB have been added by CENELEC.

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

700.1 INTRODUCTION

The requirements of Part 7 supplement, modify or replace the general requirements of the other parts of HD 384.

The numbers following the particular number of section of Part 7 are those of the corresponding parts, chapters, sections or clauses of HD 384.

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 electrical installations provided for:

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

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

The rules of this Section do not apply to installations covered by IEC 60621, or to other installations where equipment of a similar nature to that used in surface mining applications is involved.

The rules of this Section do not apply to the administrative locations of construction sites (for example offices, cloakrooms, meeting rooms, canteens, restaurants, dormitories, toilets) to which the general rules of Part 1 to 6 HD 384 apply.

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

704.1.5 The requirements of this Section are applicable to:

- fixed installations limited to the assembly comprising the main controlgear and the main protective devices (see 704.537);

NOTE The place where such an assembly is located is considered to be the interface between the supply system and the construction site installations

- installations on the load side of the above assembly comprising mobile and transportable electrical equipment as part of the moveable installations.

704.3 Assessment of general characteristics

704.313 Supplies

NOTE One construction site may be served by several sources of supply, including generating sets.

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

In the case of portable generating sets insulation monitoring may be omitted.

704.471 Measures of protection against electric shock.

In addition to Section 471 the following rules shall apply:

Socket-outlets and permanently connected hand-held electrical equipment, both with a rated current up to and including 32 A, shall either be protected by residual current devices having rated residual operating current not exceeding 30 mA (412.5), or be supplied at SELV (411.1), or have electrical separation of circuits, each socket-outlet or permanently connected hand-held equipment being supplied by a separate isolating transformer (413.5) or by separate windings of an isolating transformer.

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NOTE 1 Protection by reduced low voltage system in which the highest voltage does 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 protective measure by automatic disconnection of supply in the TN system according to clause 413.1, which is widely used in GB and IE.

NOTE 2 If electrical separation is used special attention should be paid to the requirements of clause 413.5.1.3.

NOTE 3 Protection against indirect contact by automatic disconnection of supply with a conventional touch voltage limit of U_t limited to 25 V a.c. rms or 60 V ripple free d.c. is considered as a particular application of the protective measures by automatic disconnection of supply according to clause 413.1, which is presently used in France, Italy and Portugal.

704.5 Selection and erection of equipment

704.51 Common rules

704.511.1 All assemblies for distribution of electricity on construction sites shall comply with the requirements of EN 60439-4.

NOTE Plugs and sockets should preferably be in accordance with EN 60309-2.

704.52 Wiring systems

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

Flexible cables shall be of the H07 RN-F type or equivalent cables resistant to abrasion and to water.

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

Each incoming supply assembly and each distribution assembly shall incorporate devices for switching and isolating the incoming supply.

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.

Incoming supply isolating devices shall be suitable for securing in the off position (see 462.2) (for example, a padlock or location inside a lockable enclosure).

Every circuit supplying current-using equipment shall be fed from a distribution assembly comprising the following:

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

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

Annex ZA
(normative)**Normative references to international publications
with their corresponding European publications**

This Harmonization Document incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this Harmonization Document only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

When an international publication has been modified by common modification, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60309-2	1999	Plugs, socket-outlets and couplers for industrial purposes Part 2: Dimensional interchangeability requirements for pin and contact-tube accessories	EN 60309-2	1999
IEC 60364-1 (mod)	1992	Electrical installations of buildings Part 1: Scope, object and fundamental principles	HD 384.1 S2	¹⁾
IEC 60364-3 (mod)	1993	Part 3: Assessment of general characteristics	HD 384.3 S2	1995
IEC 60364-4 (mod)	Series	Part 4: Protection for safety	HD 384.4	Series
IEC 60364-5 (mod)	Series	Part 5: Selection and erection of electrical equipment	HD 384.5	Series
IEC 60364-6-61 (mod)	1986	Part 6: Verification Chapter 61: Initial verification	HD 384.6.61 S1	1991
IEC 60364-7-706 (mod)	1983	Part 7: Requirements for special installations or locations Section 706: Restrictive conducting locations	HD 384.7.706 S1	1991
IEC 60439-4	1990	Low-voltage switchgear and controlgear assemblies Part 4: Particular requirements for assemblies for construction sites (ACS)	EN 60439-4	1991
IEC 60621-1	1987	Electrical installations for outdoor sites under heavy conditions (including open-cast mines and quarries) Part 1: Scope and definitions	-	-

¹⁾ in preparation