

Electrical installations of buildings - Part 4: Protection for safety - Chapter 48: Choice of protective measures as a function of external influences - Section 482: Protection against fire where particular risks or danger exist

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-HD 384.4.482 S1:2002 sisaldab Euroopa standardi HD 384.4.482 S1:1997 ingliskeelset teksti.

Standard on kinnitatud Eesti Standardikeskuse 18.12.2002 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.

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Standard on kättesaadav Eesti standardiorganisatsioonist.

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ICS 13.220.01, 91.140.50

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English version

Electrical installations of buildings
Part 4: Protection for safety
Chapter 48: Choice of protective measures as
a function of external influences
Section 482: Protection against fire where
particular risks or danger exist

Installations électriques des bâtiments
Partie 4: Protection pour assurer la
sécurité
Chapitre 48: Choix des mesures de
protection en fonction des influences
externes
Section 482: Protection contre
l'incendie dans des emplacements
à risques

Elektrische Anlagen von Gebäuden
Teil 4: Schutzmaßnahmen
Kapitel 48: Auswahl von
Schutzmaßnahmen als Funktion
äußerer Einflüsse
Hauptabschnitt 482: Brandschutz bei
besonderen Risiken oder Gefahren

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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, 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

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Foreword

This Harmonization Document was prepared by SC 64B, Protection against thermal effects, of Technical Committee CENELEC TC 64, Electrical installations of buildings.

The text of the draft was submitted to the formal vote and was approved by CENELEC as HD 384.4.482 S1 on 1996-07-02.

The following dates were fixed:

- latest date by which the existence of the HD
has to be announced at national level (doa) 1997-01-01
 - latest date by which the HD has to be implemented
at national level by publication of a harmonized
national standard or by endorsement (dop) 1997-06-01
 - latest date by which the national standards conflicting
with the HD have to be withdrawn (dow) 1997-06-01
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482 Protection against fire where particular risks or dangers exist

482.0 General

The requirements of this section shall be observed in addition to those of HD 384.4.42.

NOTE : This section provides the minimum requirements. National legislations providing additional requirements may exist.

Section 482 covers :

- selection and erection of installations in locations with risks of fire due to the nature of processed or stored materials like the manufacturing, processing, storage of combustible materials, including the accumulation of dust as in barns, woodworking factories, paper mills, textile factories or similar;

NOTE : The nature and allowed quantities of combustible materials, surface or volume of the locations may be regulated by national authorities.

- selection and erection of installations in locations with mainly combustible constructional materials;
- selection and erection of installations in locations with endangering of irreplaceable goods.
(under consideration)

Electrical equipment shall be so selected and erected that its temperature in normal operation , and the foreseeable temperature rise in the event of a fault, is unlikely to cause a fire, taking due account of external influences.

This may be achieved by an adequate construction of equipment or by additional protective measures during erection.

Additional measures are not needed where the surface temperature of equipment is unlikely to cause ignition of nearby combustible substances.

Section 482 does not cover :

- selection and erection of installations in locations with explosion risks, see prEN 50014 : Electrical apparatus in potentially explosive gas atmospheres (other than mines);

NOTE : Locations with dust explosion risks are under consideration.

- selection and erection of installations in escape routes. These areas may be regulated by the relevant authorities responsible e.g for building construction, public gathering or fire prevention where different regulations exist in several countries.

482.1 Locations with risks of fire due to the nature of processed or stored materials

482.1.1 In locations where dangerous amounts of combustible materials may come close to electrical equipment, installations shall be restricted, as far as possible, to those necessary to the use of these locations. Such installations shall fulfill the requirements of sub-clauses 482.1.2 to 482.1.19.

482.1.2 Where it is expected that dust, sufficient to cause a fire hazard, could accumulate on enclosures of electrical equipment, adequate measures shall be taken to prevent the enclosures from attaining excessive temperatures.