



National Standards Authority of Ireland

IRISH STANDARD

**I.S. HD 384.6.61 S2:2003**

ICS 13.260  
91.140.50

## **ELECTRICAL INSTALLATIONS OF BUILDINGS**

### **PART 6-61: VERIFICATION - INITIAL**

### **VERIFICATION**

**(IEC 60364-6-61:1986 + A1:1993 + A2:1997,**

**MODIFIED)**

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*This Irish Standard was  
published under the authority  
of the National Standards  
Authority of Ireland  
and comes into effect on:*

*August 22, 2003*

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HARMONIZATION DOCUMENT

**HD 384.6.61 S2**

DOCUMENT D'HARMONISATION

HARMONISIERUNGSDOKUMENT

June 2003

ICS 13.260; 91.140.50

Supersedes HD 384.6.61 S1:1992

English version

**Electrical installations of buildings**  
**Part 6-61: Verification –**  
**Initial verification**  
(IEC 60364-6-61:1986 + A1:1993 + A2:1997, modified)

Installations électriques des bâtiments  
Partie 6-61: Vérification –  
Vérification à la mise en service  
(CEI 60364-6-61:1986 + A1:1993 +  
A2:1997, modifiée)

Elektrische Anlagen von Gebäuden  
Teil 6-61: Prüfungen –  
Erstprüfungen  
(IEC 60364-6-61:1986 + A1:1993 +  
A2:1997, modifiziert)

This Harmonization Document was approved by CENELEC on 2002-09-24. 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, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, 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 60364-6-61:1986 + A1:1993 + A2:1997, prepared by IEC TC 64, Electrical installations and protection against electric shock, together with the common modifications prepared by SC 64A, Protection against electric shock, of Technical Committee CENELEC TC 64, Electrical installations of buildings, was submitted to the CENELEC formal vote and was approved by CENELEC as HD 384.6.61 S2 on 2002-09-24.

This Harmonization Document HD 3846.6.1 S1:1992.

The following dates are proposed:

- |  |       |            |
|--|-------|------------|
| – latest date by which the existence of the HD has to be announced at national level   | (doa) | 2003-04-01 |
| – latest date by which the HD has to be implemented at national level by publication of a harmonized national standard or by endorsement | (dop) | 2004-04-01 |
| – latest date by which the national standards conflicting with the HD have to be withdrawn   | (dow) | 2005-10-01 |

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

Annexes designated "informative" are given for information only.

In this standard, annex ZA is normative and annexes A, C, E and F are informative.

Annex ZA has 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.

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## 61.1 General

**61.1.1** Every installation shall be verified as far as reasonably practicable during erection and/or on completion before being put into service by the user.

**61.1.2** The information required by Clause 514.5 shall be made available to the persons carrying out the verification.

**61.1.3** Precautions shall be taken to avoid danger to persons and to avoid damage to property and installed equipment during inspection and testing.

**61.1.4** Where the installation is an extension or alteration of an existing installation, it shall be verified that the extension or alteration complies with HD 384 and does not impair the safety of the existing installation.

**61.1.5** The verification shall be made by a skilled person, competent in verification.

**61.1.6** On completion of the verification according to 61.1.1 and 61.1.4 a report shall be prepared.

NOTE Information on periodic verification is given in Annex F.

## 61.2 Normative references

See Annex ZA.

## 61.3 Definitions

For the purpose of Chapter 61 the following definitions apply.

### 61.3.1

#### **verification**

all measures by means of which compliance of the complete electrical installation with the HD's of the HD 384 series is checked. Verification comprises inspection and testing

### 61.3.2

#### **inspection**

the examination of an electrical installation using all the senses in order to ascertain their proper selection and erection

### 61.3.3

#### **testing**

the implementation of measures in an electrical installation by means of which its effectiveness is proved. It includes ascertaining values by means of appropriate measuring instruments, these values not being detectable by inspection

## 611 Inspection

**611.1** Inspection shall precede testing and normally be done with the whole installation dead.

**611.2** The inspection shall be made to confirm that electrical equipment which is part of the fixed installation is

- in compliance with the safety requirements of the relevant equipment standards,

NOTE This may be ascertained by examination of marking or certification.

- correctly selected and erected according to HD 384 series and to the manufacturers instructions,
- not visibly damaged, so as to impair safety.

### 611.3 Inspection shall include at least the checking of the following, where relevant:

- method of protection against electric shock, including measurement of distances, with regard to, for example, protection by barriers or enclosures, by obstacles or by placing out of reach, (see Clauses 412.2, 412.3, 412.4, 413.3 and Section 471);

NOTE The requirement stated in Clause 413.3 "Protection by non-conducting location" is verifiable only where the installation includes only electrical equipment which is part of the fixed installation.

- presence of fire barriers and other precautions against propagation of fire and protection against thermal effects (see Chapters 42, 43 and Sections 482, 527);
- selection of conductors for current-carrying capacity and voltage drop (see Sections 523 and 525);
- choice and setting of protective and monitoring devices (see Chapter 53);
- presence of suitable isolating and switching devices correctly located (see Chapter 46 and Section 537);
- selection of equipment and protective measures appropriate to external influences (see Clause 512.2 and Sections 482 and 522);
- identification of neutral and protective conductors (see Clause 514.3);
- presence of diagrams, warning notices or other similar information (see Clause 514.5);
- identification of circuits, overcurrent protective devices, switches, terminals, etc. (see Section 514);
- adequacy of connections of conductors (see Section 526);
- accessibility for convenience of operation, identification and maintenance (see Sections 513 and 514).

## 612 Testing

### 612.1 General

The following tests shall be carried out where relevant and should preferably be made in the following sequence:

- continuity of the protective conductors and of the main and supplementary equipotential bonding (see Clause 612.2);
- insulation resistance of the electrical installation (see Clause 612.3);
- protection by SELV and PELV or by electrical separation of circuits (see Clause 612.4);
- floor and wall resistance (see Clause 612.5);
- automatic disconnection of supply (see Clause 612.6);
- polarity test (see Clause 612.7);
- functional tests (see Clause 612.8);
- voltage drop (see Clause 612.9) (under consideration).

In the event of any test indicating failure to comply, that test and any preceding test, the results of which may have been influenced by the fault indicated, shall be repeated after the fault has been rectified.

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