



NSAI
Standards

Irish Standard
I.S. HD 60364-6:2007

Low voltage electrical installations -- Part 6: Verification (IEC 60364-6:2006 (MOD))

I.S. HD 60364-6:2007

Incorporating amendments/corrigenda issued since publication:

The National Standards Authority of Ireland (NSAI) produces the following categories of formal documents:

I.S. xxx: Irish Standard – national specification based on the consensus of an expert panel and subject to public consultation.

S.R. xxx: Standard Recommendation - recommendation based on the consensus of an expert panel and subject to public consultation.

SWiFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

<p><i>This document replaces:</i> HD 384.6.61 S2:2003</p>	<p><i>This document is based on:</i> HD 60364-6:2007 HD 384.6.61 S2:2003</p>	<p><i>Published:</i> 16 February, 2007 4 June, 2003</p>						
<p>This document was published under the authority of the NSAI and comes into effect on: 13 March, 2007</p>		<p>ICS number: 91.140.50</p>						
<table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <p>NSAI 1 Swift Square, Northwood, Santry Dublin 9</p> </td> <td style="width: 33%; vertical-align: top;"> <p>T +353 1 807 3800 F +353 1 807 3838 E standards@nsai.ie</p> </td> <td style="width: 33%; vertical-align: top;"> <p>Sales: T +353 1 857 6730 F +353 1 857 6729 W standards.ie</p> </td> </tr> <tr> <td colspan="3" style="text-align: center; padding-top: 10px;"> <p>W NSAI.ie</p> </td> </tr> </table>			<p>NSAI 1 Swift Square, Northwood, Santry Dublin 9</p>	<p>T +353 1 807 3800 F +353 1 807 3838 E standards@nsai.ie</p>	<p>Sales: T +353 1 857 6730 F +353 1 857 6729 W standards.ie</p>	<p>W NSAI.ie</p>		
<p>NSAI 1 Swift Square, Northwood, Santry Dublin 9</p>	<p>T +353 1 807 3800 F +353 1 807 3838 E standards@nsai.ie</p>	<p>Sales: T +353 1 857 6730 F +353 1 857 6729 W standards.ie</p>						
<p>W NSAI.ie</p>								
<p>Údarás um Chaighdeáin Náisiúnta na hÉireann</p>								

English version

**Low voltage electrical installations -
Part 6: Verification**
(IEC 60364-6:2006, modified)

Installations électriques à basse tension -
Partie 6: Vérification
(CEI 60364-6:2006, modifiée)

Errichten von Niederspannungsanlagen -
Teil 6: Prüfungen
(IEC 60364-6:2006, modifiziert)

This Harmonization Document was approved by CENELEC on 2006-09-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for implementation of this Harmonization Document at national level.

Up-to-date lists and bibliographical references concerning such national implementations 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, Bulgaria, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the 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

I.S. HD 60364-6:2007

HD 60364-6:2007

- 2 -

FOREWORD

The text of document 64/1497/FDIS, future edition 1 of IEC 60364-6, prepared by IEC TC 64, Electrical installations and protection against electric shock, was submitted to the IEC-CENELEC parallel vote.

A draft amendment, prepared by SC 64A, Protection against electric shock, of Technical Committee CENELEC TC 64, Electrical installations and protection against electric shock, was submitted to the formal vote.

The combined texts were approved by CENELEC as HD 60364-6 on 2006-09-01.

This Harmonization Document supersedes HD 384.6.61 S2:2003.

The main changes with respect to HD 384.6.61 S2:2003 are:

- extension of the scope to cover, in addition to initial verification, also periodic verification of electrical installations;
- modification of verification requirements in the case of protection by automatic disconnection of the supply;
- requirements for verification of conditions for additional protection;
- requirements for reporting upon completion of initial and periodic verification;
- information concerning the measurement of earth loop impedance with current clamps;
- information concerning the evaluation of voltage drop;
- recommendations for electrical equipment which is being re-used;
- model forms of schedules that might be used for the description and for initial and periodic verification of electrical installations.

The following dates were fixed:

- latest date by which the existence of the HD has to be announced at national level (doa) 2007-03-01
- latest date by which the HD has to be implemented at national level by publication of a harmonized national standard or by endorsement (dop) 2007-09-01
- latest date by which the national standards conflicting with the HD have to be withdrawn (dow) 2009-09-01

Annexes ZA and ZB have been added by CENELEC.

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

CONTENTS

	Page
6.1 Scope	5
6.2 Normative references	5
6.3 Definitions	5
61 Initial verification	6
61.1 General	6
61.2 Inspection	6
61.3 Testing	7
61.3.1 General	7
61.3.2 Continuity of conductors	8
61.3.3 Insulation resistance of the electrical installation	8
61.3.4 Protection by SELV, PELV or by electrical separation	9
61.3.5 Insulation resistance/impedance of floors and walls	9
61.3.6 Protection by automatic disconnection of the supply	10
61.3.7 Additional protection	12
61.3.8 Polarity test	12
61.3.9 Check of phase sequence	12
61.3.10 Functional test	12
61.3.11 Voltage drop	12
61.4 Reporting for initial verification	13
62 Periodic verification	13
62.1 General	13
62.2 Frequency of periodic verification	14
62.3 Reporting for periodic verification	15
 Annex A (informative) – Method for measuring the insulation resistance/impedance of floors and walls to earth or to the protective conductor	16
A.1 General	16
A.2 Test method for measuring the impedance of floors and walls with a.c.voltage	16
A.3 Test electrode 1	17
A.4 Test electrode 2	18
 Annex B (informative) – Method B1, B2 and B3	19
B.1 Method B1 - Measurement of earth electrode resistance	19
B.2 Method B 2 - Measurement of the fault loop impedance	20
B.3 Method B 3 - Measurement of earth loop resistance with current clamps	21

I.S. HD 60364-6:2007

HD 60364-6:2007

- 4 -

Annex C (informative) – Guide on the application of the rules of clause 61: Initial verification.....	22
Annex D (informative) – Example of a diagram suitable for the evaluation of the voltage drop	25
Annex E (informative) – Recommendation for electrical equipment, which is being re-used in electrical installations.....	26
Annex F (informative) – Description of the installation for verification.....	27
Annex G (informative) – Form for inspection of electrical installations (see examples in G.2)..	30
Annex H (informative) – Reporting for verification	36
Annex ZA (normative) – Special national conditions.....	37
Annex ZB (informative) – A-deviations	41

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

-
- [Looking for additional Standards? Visit Intertek Inform Infostore](#)
 - [Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation](#)
-