

*Incorporating  
Amendment No. 1 and  
Corrigendum No. 1  
(formerly BS 4533 :  
Section 102.7 : 1990,  
incorporating  
Amendments Nos. 1, 2  
and 3)*

# Luminaires

## Part 2. Particular requirements

### Section 7. Portable luminaires for garden use

The European Standard EN 60598-2-7 : 1989 has the status of a  
British Standard

ICS 29.140.40

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**National foreword**

This British Standard has been prepared by Technical Committee CPL/34 (formerly LGL/3) and is the English language version of EN 60598-2-7 : 1989 *Luminaires Part 2: Particular requirements Section 7: Portable luminaires for garden use*, and its Amendments A11 : 1994, A12 : 1995, A2 : 1996 and A13 : 1997 and Corrigendum January 1999, published by the European Committee for Electrotechnical Standardization (CENELEC). It was derived from IEC 598-2-7 : 1982, edition 1, including Amendments 1 : 1987 and 2 : 1994, published by the International Electrotechnical Commission (IEC). The British Standard supersedes BS 4533 : Section 102.7 : 1984, which is withdrawn.

The CENELEC Common Modifications have been implemented at the appropriate places in the text of IEC Publication 598-2-7 (1982) edition 1, into which Amendments 1 and 2 have been incorporated, and are indicated by a side line in the margin. The foreword and preface of IEC Publication 598-2-7 (1982) edition 1, the preface of Amendment No 1 (1987), and the deleted parts of the original IEC text which do not form part of the text of EN 60 598-2-7 have been quoted in national appendix NA. Annexes designated 'normative' are part of the body of the standard. Annexes designated 'informative' are given for information only. National appendices are designated 'informative'.

In 7.1, 7.2, 7.12 and 7.13 where the words 'section of Part 2 of IEC Publication 598', 'section of Part 2' and 'section of Publication 598-2' appear they should be read as 'section of BS 4533'. In 7.1 and 7.2 where 'Part 1' appears this should be read as 'Part 101'.

**Cross-references.** Details of other international publications quoted in this standard are given in annex ZA. Where there are British Standards corresponding to these international standards the relationship is given in national appendix NB.

**Product certification.** Users of this British Standard are advised to consider the desirability of third party certification of product conformity with this British Standard based on testing and continuing surveillance, which may be coupled with assessment of a supplier's quality systems against the appropriate Part of BS 5750.

Enquiries as to the availability of third party certification schemes will be forwarded by BSI to the Association of Certification Bodies. If a third party certification scheme does not already exist, users should consider approaching an appropriate body from the list of Association members.

The foreword of Amendment A1 2 to the EN makes reference to the 'date of withdrawal (dow) of conflicting national standards' as 1995-10-01. In this case, the relevant national standard is BS EN 60598-2-7 but the date of withdrawal relates only to those parts of the British Standard subject to Amendment No. 2. Certificates and marks will not be awarded after this date with respect to the British Standard not incorporating Amendment No. 2. They will be awarded only to the amended British Standard. However, such certificates and marks already awarded with respect to the British Standard not incorporating Amendment No. 2 may continue to apply for production until 2000-10-01.

Analogous provisions obtain in respect of Amendment No. 3, for which the dow is 1997-03-01 and the expiry date for current approvals is 2002-03-01.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

**Compliance with a British Standard does not of itself confer immunity from legal obligations.**

**Summary of pages**

This standard comprises a front cover, an inside front cover, the EN title page, pages 2 to 12, an inside back cover and a back cover.

Descriptors: Portable mobile luminaires for garden use; electrical safety requirements

English version

Luminaires  
Part 2: Particular requirements  
Section seven — Portable luminaires for garden use

(includes amendments A11 : 1994 + A12 : 1995 + A2 : 1996 + A13 : 1996)

(IEC 598-2-7 : 1982 + A1 : 1987 + A2 : 1994, modified)

Luminaires

Deuxième partie: Règles particulières

Section sept — Luminaires portatifs pour emploi dans les jardins

(inclut les amendements A11 : 1994 + A12 : 1995 + A2 : 1996 + A13 : 1996)

(IEC 598-2-7 : 1982 + A1 : 1987 + A2 : 1994, modifiée)

Leuchten

Teil 2: Besondere Anforderungen

Hauptabschnitt sieben — Ortsveränderliche Gartenleuchten

(enthält Änderungen A11 : 1994 + A12 : 1995 + A2 : 1996 + A13 : 1996)

(IEC 598-2-7 : 1982 + A1 : 1987 + A2 : 1994, modifiziert)

This European Standard was ratified by CENELEC on 13 September 1988. CENELEC members are bound to comply with the requirements of the CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CENELEC Central Secretariat or to any CENELEC member.

This European Standard exists in three official versions (English, French, and German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CENELEC Central Secretariat has the same status as the official versions.

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

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

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Ref. No. EN 60598-2-7 : 1989 + A11 : 1994 + A12 : 1995 + A2 : 1996 + A13 : 1996 E

### Brief history

The CENELEC Questionnaire Procedure performed for finding out whether or not IEC 598-2-7 (first edition — 1982) as amended by Amendment No. 1 (1987) could be accepted without textual changes, has shown that some common modifications were necessary for acceptance as a European Standard (EN). The Reference Document modified by common modifications prepared by TC 34Z was submitted to the CENELEC members for formal vote and acceptance by CENELEC.

### Technical text

The text of the International Standard IEC 598-2-7 (first edition — 1982) as amended by Amendment No. 1 (1987) and a common modification was approved by CENELEC on 1988-09-13 as a European Standard.

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

Annexes designated 'informative' are given only for information.

In this European Standard:

- Annex ZA and ZB are normative.
- Annex ZC is informative.

The following dates were fixed:

- date of announcement (doa) 1989-04-01
- date of latest publication (dop) 1989-10-01
- date of withdrawal of conflicting national standard (dow) 1990-04-01

### Foreword to amendment A11 : 1994

At the request of the Danish electrotechnical committee, a draft for an amendment to EN 60598-2-7 : 1989 was submitted to the CENELEC members for acceptance in December 1993.

The text of the draft was accepted by CENELEC as amendment A11 to EN 60598-2-7 : 1989 on 1994-02-14.

The following dates were fixed:

- latest date of the amendment at national level (doa) 1994-05-14
- latest date of publication of an identical national standard (dop) 1994-08-14

### Foreword to amendment A12 : 1995

The text of document 34D(CO)245, amendment to subclauses 7.5, 7.6 and 7.10 of IEC 598-2-7, as prepared by IEC Subcommittee 34D: Luminaires, of IEC Technical Committee 34: Lamps and related equipment, was submitted to the IEC-CENELEC parallel vote in December 1992.

The text was approved by CENELEC on 1994-03-08.

The text of document 34D(CO)259, amendment to subclause 7.6.6 of IEC 598-2-7, as prepared by the same IEC Subcommittee, was submitted to the IEC-CENELEC parallel vote in February 1994. This document was rejected at CENELEC level.

At IEC level, the text of documents 34D(CO)245 and 34D(CO)259 were combined and printed as amendment 2 to IEC 598-2-7. In view of the rejection at CENELEC level of the second document, the 81st Technical Board of CENELEC has decided to submit this document to a second vote with common modifications and to issue the first document separately as amendment A12 to EN 60598-2-7.

This amendment includes and supersedes amendment A11 to EN 60598-2-7.

The following dates were fixed:

- latest date by which the amendment has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 1995-10-01
- latest date by which the national standards conflicting with the amendment have to be withdrawn (dow) 1995-10-01

For products which have complied with EN 60598-2-7 : 1989 before 1995-10-01, as shown by the manufacturer or by a certification body, this previous standard may continue to apply for production until 2000-10-01.

### Foreword to amendment A2 : 1996

The text of document 34D(CO)245, amendment to subclauses 7.5, 7.6 and 7.10 of IEC 598-2-7, as prepared by IEC Subcommittee 34D: Luminaires, of IEC Technical Committee 34: Lamps and related equipment, was submitted to the IEC-CENELEC parallel vote in December 1992. This text was approved by CENELEC on 1994-03-08.

The text of document 34D(CO)259, amendment to subclause 7.6.6 of IEC 598-2-7, prepared by the same IEC/SC 34D, was submitted to the IEC-CENELEC parallel vote in February 1994. This document was rejected at CENELEC level.

At IEC, documents 34D(CO)245 were combined and printed as amendment 2 to IEC 598-2-7. In view of the rejection at CENELEC level of the second document and following decisions by the Technical Board of CENELEC, the first document was published as amendment A12 to EN 60598-2-7, and the second was submitted to a new vote as prAB with common modifications prepared by Technical Committee CENELEC TC 34Z, Luminaires and associated equipment.

The new text, combined with A12 : 1995, was approved by CENELEC as amendment A2 to EN 60598-2-7 on 1995-09-20.

This amendment includes and supersedes amendments A11 and A12 to EN 60598-2-7.

The following dates were fixed:

- latest date by which the amendment has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 1997-03-01
- latest date by which the national standards conflicting with the amendment have to be withdrawn (dow) 1997-03-01

For products which have complied with EN 60598-2-7 : 1989 and its amendment A12 : 1995 before 1997-03-01, as shown by the manufacturer or by a certification body, this previous standard may continue to apply for production until 2002-03-01.

### Foreword to amendment A13 : 1997

At the request of the Swedish electrotechnical committee, a draft for an amendment to EN 60598-2-7 : 1989 was submitted to the CENELEC members for acceptance in November 1996.

The text of the draft was accepted by CENELEC as amendment A13 to EN 60598-2-7 : 1989 on 1997-01-26.

The following dates were fixed:

- latest date by which the existence of the amendment has to be announced at national level (doa) 1997-04-26
- latest date by which the amendment has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 1997-07-26

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## LUMINAIRES

### Part 2: Particular requirements

#### Section Seven — Portable luminaires for garden use

##### 7.1 Scope

This section of Part 2 of IEC Publication 598 specifies requirements for portable pedestal luminaires for use in places such as gardens and for portable luminaires for use in places such as flower beds, for use with tungsten filament, tubular fluorescent and other discharge lamps on supply voltages not exceeding 250 V. It is to be read in conjunction with those sections of Part 1 to which reference is made.

##### 7.2 General test requirements

The provisions of Section Zero of IEC Publication 598-1: Luminaires, Part 1: General Requirements and Tests, apply. The tests described in each appropriate section of Part 1 shall be carried out in the order listed in this section of Part 2.

##### 7.3 Definitions

For the purposes of this section, the definitions of Section One of Publication 598-1 apply.

##### 7.4 Classification of luminaires

Luminaires shall be classified in accordance with the provisions of Section Two of Publication 598-1 together with the requirements of Sub-clauses 7.4.1 and 7.4.2.

7.4.1 According to the type of protection against electric shock, portable luminaires for garden use shall be classified as Class I, Class II or Class III.

7.4.2 According to the degree of protection against dust and moisture, portable luminaires for garden use shall be classified as rain-proof, splash-proof, jet-proof or watertight.

##### 7.5 Marking

The provisions of Section Three of Publication 598-1 apply.

7.5.1 The maximum power calculated from the maximum current rating of the supply cable shall be marked in close proximity to the mains socket-outlet(s) incorporated in the luminaire.

##### 7.6 Construction

The provisions of Section Four of Publication 598-1 apply, together with the requirements of Sub-clauses 7.6.1 to 7.6.7.

7.6.1 Carriers and clips for flexible cords shall be of insulating material, or shall be provided with a fixed insulating lining if they are accessible or are in contact with accessible metal parts.

Compliance shall be checked by inspection.

7.6.2 Portable luminaires shall have adequate stability.

Compliance shall be checked by placing the luminaire in the most unfavourable position of normal use on a plane inclined at an angle of 15° to the horizontal, the plane being such that the luminaire does not slide. The luminaire shall not overturn.



Luminaires which are fastened by clamps, a spike or similar devices are not subjected to this test.

- 7.6.3 Means shall be provided so that the supply flexible cable or cord cannot be damaged in any possible normal position of use of the luminaire. The cable entry shall be so located or shielded that it is not likely to be adversely affected by dirt splashing up from the ground.

Compliance shall be checked by inspection and, if necessary, by an installation test.

*Note.* — As an example, this requirement may be met by means of a stop plate on a spike intended to be driven into the ground, the distance from the ground to the cable entry being at least 10 cm.

- 7.6.4 Clause 4.6 of Section Four of Publication 598-1 does not apply.

- 7.6.5 Portable luminaires for garden use shall not have more than two cable entries.

Compliance shall be checked by inspection.

- 7.6.6 The connection between the socket-outlet for providing power to other luminaires and the associated plug shall be in accordance with at least the same degree of protection as the luminaires but not less than IPX3. This degree of protection shall be maintained with or without plug.

Mains socket-outlets mounted on Class II luminaires shall comply with IEC regional or national standards so as to allow connection only to these outlets of other Class II luminaires.

*Note.* — It is the intention of the Standard to disallow the connection of equipment using standard plugs on Class II luminaires as the earthing connection will be lost when connecting Class I luminaires to an outlet on a Class II luminaire.

Mains socket-outlets mounted on Class I luminaires shall allow connection only of Class I or Class II luminaires and shall conform to IEC, regional or national standards.

Compliance is checked by inspection where necessary.

- 7.6.7 Lampholders and plugs shall be of material resistant to tracking.

Compliance shall be checked by the test described in Clause 13.4 of Section Thirteen of Publication 598-1.

#### 7.7 Creepage distances and clearances

The provisions of Section Eleven of Publication 598-1 apply.

#### 7.8 Provision for earthing

The provisions of Section Seven of Publication 598-1 apply.

#### 7.9 Terminals

The provisions of Sections Fourteen and Fifteen of Publication 598-1 apply.

#### 7.10 External and internal wiring

The provisions of Section Five of Publication 598-1 apply, together with the requirements of Sub-clauses 7.10.1 to 7.10.3.

7.10.1 Portable luminaires for garden use delivered without a flexible cable or cord and a plug shall be provided with terminals, a cord anchorage and an inlet opening for the proper connection of the flexible cable or cord.

*Note.* — National wiring rules may require Class II portable luminaires for garden use to be provided with a non-detachable flexible cable or cord and a plug.

Compliance shall be checked by inspection and, if necessary, by an installation test.

7.10.2 The following requirement is a modification of Sub-clause 5.2.2 of Section Five of Publication 598-1.

For portable luminaires for garden use, non-detachable flexible cables or cords shall be not lighter than cords of the type HO5 RN-F.

Compliance shall be checked by inspection.

7.10.3 Not used

#### 7.11 Protection against electric shock

The provisions of Section Eight of Publication 598-1 apply.

#### 7.12 Endurance tests and thermal tests

The provisions of Section Twelve of Publication 598-1 apply. Luminaires with an IP classification greater than IP20 shall be subjected to the relevant tests of Clauses 12.4, 12.5 and 12.6 of Section Twelve of Publication 598-1 after the test(s) of Clause 9.2 but before the test(s) of Clause 9.3 of Section Nine of Publication 598-1 specified in Clause 7.13 of this Section of Publication 598-2.

#### 7.13 Resistance to dust and moisture

The provisions of Section Nine of Publication 598-1 apply together with the requirements of Sub-clause 7.13.1. For luminaires with an IP classification greater than IP20 the order of the tests specified in Section Nine of Publication 598-1 shall be as specified in Clause 7.12 of this Section of Publication 598-2.

7.13.1 Class II portable luminaires for garden use shall be tested in the most unfavourable of the overturned positions likely to occur.

#### 7.14 Insulation resistance and electric strength

The provisions of Section Ten of Publication 598-1 apply.

#### 7.15 Resistance to heat, fire and tracking

The provisions of Section Thirteen of Publication 598-1 apply.

ANNEX ZA (normative)

OTHER INTERNATIONAL PUBLICATIONS QUOTED IN THIS STANDARD

When the international publication has been modified by CENELEC common modifications (mod = Modified by CENELEC common modifications) the relevant RN/HD applies.

IEC Publications	EN/HD	Date of issue of EN/HD
83 Plugs and socket-outlets for domestic and similar general use -- Standards	—	
598-1, mod Luminaires Part 1: General requirements and tests	EN 60 598-1	Sliding; latest edition

ANNEX ZB (normative)

SPECIAL NATIONAL CONDITIONS

The following special national conditions exist in the countries mentioned; in general, they are due to the electricity supply system and wiring rules.

Clause No of R D	Special national conditions	Justification
7.4	Sub-clause 7.4.1 In Denmark:  luminaires shall be classified as Class II or Class III.	These special national condition apply until 1996 by which time fixed wiring in the garden is expected to have been modified to provide earthing facilities.

||

ANNEX ZC (informative)  
NATIONAL DEVIATIONS

The following national deviations are designated A-deviations, which means:

A-deviation: A national deviation due to regulations, the alteration of which is – at least for the time being – outside the competence of the CEN/CENELEC member.

|| There are no A-deviations to this European Standard.

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**National appendix NA (informative)****Deletions from and IEC text amended by common modifications to IEC Publication 598-2-7 (1982) edition 1 and Amendment No 1 (1987)****Foreword of IEC Publication 598-2-7 (1982) edition 1**

- 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.

**Prefaces of IEC Publication 598-2-7 (1982) edition 1 and Amendment No. 1 (1987)**

This publication has been prepared by Sub-Committee 34D: Luminaires, of IEC Technical Committee No. 34: Lamps and Related Equipment. It is one section of the multi-section Publication 598 which is intended to replace IEC Publication 162: Luminaires for Tubular Fluorescent Lamps, and which introduces requirements for other luminaires.

A first draft was discussed at the meeting held in Brussels in 1977. As a result of this meeting, a draft, Document 34D(Central Office)61, was submitted to National Committees for approval under the Six Months' Rule in May 1979.

The National Committees of the following countries voted explicitly in favour of publication:

Austria	Italy
Belgium	Japan
Brazil	Norway
Canada	Poland
Egypt	Romania
Finland	South Africa (Republic of)
France	Sweden
Germany	Turkey
Hungary	United Kingdom
Israel	United States of America

Amendments, Document 34D(Central Office)69, were submitted to the National Committees for approval under the Two Months' Procedure in October 1980.

The National Committees of the following countries voted explicitly in favour of publication:

Bulgaria	Poland
Canada	Romania
Egypt	South Africa (Republic of)
France	Switzerland
German Democratic Republic	Turkey
Italy	Union of Soviet
Japan	Socialist Republics
Netherlands	United Kingdom
New Zealand	

This publication should be read in conjunction with IEC Publication 598-1: Luminaires, Part 1: General Requirements and Tests.

*Other IEC publications quoted in this standard:*

- Publications Nos. 83: Plugs and Socket-outlets for Domestic and Similar General Use. Standards.  
245: Rubber Insulated Cables of Rated Voltages up to and Including 450/750 V.

This amendment has been prepared by Sub-Committee 34D: Luminaires, of IEC Technical Committee No. 34: Lamps and Related Equipment.

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

Six Months' Rule	Report on Voting
34D(C0)111	34D(C0)128

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

7.6.6 The text introduced by Amendment 2 to IEC 598-2-7 has been replaced. It read as follows.

The connection between the socket-outlet for providing power to other luminaires and the associated plug shall be in accordance with the degree of protection against dust and moisture to IP53 or better.

Mains socket-outlets mounted on Class II luminaires shall be non-standard so as to allow connection only to these outlets of other Class II luminaires.

Note. – It is the intention of the Standard to disallow the connection of equipment using standard plugs on Class II luminaires as the earthing connection will be lost when connecting Class I luminaires to an outlet on a Class II luminaire.

Mains socket-outlets mounted on Class I luminaires shall allow connection only of Class I or Class II luminaires and shall conform to IEC, regional or national standards.

IEC 83 *Plugs and socket-outlets for domestic and similar general use – Standards*

IEC 906 *IEC System of plugs and socket-outlets for household and similar purposes*

Compliance is checked by inspection.

#### 7.10 External and internal wiring

The second paragraph of the following sub-clause has been modified:

7.10.2 The following requirement is a modification of Sub-clause 5.2.2 of Section Five of Publication 598-1.

For portable luminaires for garden use, non-detachable flexible cables or cords shall be not lighter than cords of the type 245 IEC 53 (Specified in IEC Publication 245: Rubber Insulated Cables of Rated Voltages up to and Including 450/750 V) but with a sheath of polychloroprene or similar synthetic material.

Compliance shall be checked by inspection.

The text of the following sub-clause has been deleted:

7.10.3 For Class II portable luminaires for garden use, flat plugs shall not be used.

Compliance shall be checked by inspection.



**National appendix NB (informative)**

The British Standard corresponding to the international standard referred to in EN 60 598-2-7 is as follows:

<b>International standard</b>	<b>British Standard</b>
IEC 598-1 (mod)	BS 4533 Luminaires
EN 60 598-1	Part 101 : 1990 Specification for general requirements and tests (Identical)

**National appendix NC (informative)**

The United Kingdom participation in the preparation of this European Standard was entrusted by the Electrical Illumination Standards Policy Committee (LGL/-) to Technical Committee LGL/3, upon which the following bodies were represented:

Association of County Councils  
 Association of Manufacturers Allied to the Electrical and Electronic Industry (BEAMA Ltd.)  
 British Lighting Association for the Preparation of Standards (Britlaps)  
 Chartered Institution of Building Services Engineers  
 Consumer Standards Advisory Committee of BSI  
 Decorative Lighting Association  
 Department of Trade and Industry (Consumer Safety Unit, CS Division)  
 Electrical Contractors Association  
 Electrical Installation Equipment Manufacturers Association (BEAMA Ltd.)  
 Electricity Supply Industry in England and Wales  
 Health and Safety Executive  
 Institution of Lighting Engineers  
 Lighting Industry Federation Ltd.  
 Society of Glass Technology

The following bodies were also represented through subcommittees and panels:

Association of Consulting Scientists  
 Chief and Assistant Chief Fire Officers' Association  
 Department of Health and Social Security

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Committee reference LGL/3 Draft for comment 79/27647 DC

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British Standards are updated by amendment or revision. Users of British Standards should make sure that they possess the latest amendments or editions.

It is the constant aim of BSI to improve the quality of our products and services. We would be grateful if anyone finding an inaccuracy or ambiguity while using this British Standard would inform the Secretary of the responsible technical committee, the identity of which can be found on the inside front cover. Tel: 0181 996 9000; Fax: 0181 996 7400.

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## Cooperating organizations

The European Committee for Electrotechnical Standardization (CENELEC), under whose supervision this European Standard was prepared, comprises the National Committees of the following countries.

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Finland	Norway
France	Portugal
Germany	Spain
Greece	Sweden
Iceland	Switzerland
Ireland	United Kingdom

## Amendments issued since publication

Amd. No.	Date of issue	Text affected
8724	February 1995	Superseded by AMD 8724
8487	July 1995	Indicated by a double line in the margin
9424	March 1997	Indicated by a double line in the margin
9623	October 1997	Indicated by a double line in the margin
10563 Corrigendum	December 1999	Indicated by a double line in the margin

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LGL/3