

Specification for

Safety of household and similar electrical appliances

Part 2. Particular requirements

Section 2.60 Whirlpool baths and similar equipment

The European Standard EN 60335-2-60 : 1991 with the incorporation of Amendment A51 : 1993, Corrigendum : 1993, Amendments A52 : 1994 and A53 : 1997 has the status of a British Standard

ICS 91.140.70

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.

Austria	Italy
Belgium	Luxembourg
Denmark	Netherlands
Finland	Norway
France	Portugal
Germany	Spain
Greece	Sweden
Iceland	Switzerland
Ireland	United Kingdom

This British Standard was published under the authority of the Standards Board and comes into effect on 31 October 1991

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The following BSI references relate to the work on this standard:
Committee reference LEL/161
Draft for comment 87/22184 DC

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Amendments issued since publication

Amd. No.	Date	Text affected
7996	November 1993	Indicated by a sideline in the margin
8276	July 1994	Indicated by a sideline in the margin
8324	October 1994	Indicated by a sideline in the margin
9548	November 1997	Indicated by a sideline in the margin



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National foreword

This British Standard has been prepared under the direction of the Light Electrical Engineering Standards Policy Committee and is the English language version of EN 60335-2-60 'Safety of household and similar electrical appliances : Part 2 : Particular requirements for whirlpool baths and similar equipment', including amendments A51 : 1993, A52 : 1994, A53 : 1997 and corrigendum December 1993 published by the European Committee for Electrotechnical Standardization (CENELEC). EN 60335-2-60 was derived by that organization from IEC Publication 335-2-60 (1990), first edition, which has the same title as the European Standard.

The CENELEC Common Modifications have been implemented at the appropriate places in the text of IEC Publication 335-2-60 (1990), first edition, and are indicated by a vertical line in the margin. The foreword and preface of IEC Publication 335-2-60 (1990), first edition, and the deleted parts of the original IEC text which do not form part of the text of EN 60335-2-60 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'.

This British Standard is to be read in conjunction with BS 3456 : Part 201 : 1990 *General requirements*, which includes the amendments shown in the following table, which supplement and modify BS 3456 : Part 201.

All the amendments listed below apply to this British Standard.

Amendment to BS 3456 : Part 201 : 1990	Amendment to EN 60335-1 : 1988	Amendment to IEC 335-1 : 1976
Amendment No. 1 : 1990	Amendment 2 : 1988 ¹⁾	Amendment No.4 : 1984
Amendment No. 2 : 1990	Amendment 5 : 1989 ¹⁾	Amendment No. 5 : 1986
Amendment No. 3 : 1990	Amendment 6 : 1989 ¹⁾	Amendment No. 6 : 1988
Amendment No. 4 : 1992	Amendment A51 : 1991	—
Amendment No. 5 : 1992	Amendment A52 : 1992	—
Amendment No. 6 : 1992	Amendment A53 : 1992	—
Amendment No. 7 : 1993	Amendment A54 : 1992	—
Amendment No. 8 : 1993	Amendment A55 : 1993	—
Amendment No. 9 : 1993	Corrigendum to Amendment A55 : 1993	—
Amendment No. 10 : 1994	Corrigendum to EN 60335-1 : 1988	—
¹⁾ These Amendments to EN 60335-1 implement, with additions and modifications, the corresponding Amendments to IEC 335-1.		

The foreword of Amendment A53 to EN 60335-2-60 makes reference to 'date of withdrawal (dow) of conflicting national standards' as 1999-06-01. In this case the relevant national standard is BS EN 60335-2-60 : 1991 including amendments A51 and A52 but the date of withdrawal relates only to those parts of the British Standard subject to Amendment A53. Certificates and marks will not be awarded after this date with respect to the British Standard not incorporating Amendment A53. 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 A53 may continue to apply for production until 2001-06-01.

Product approval. Attention is drawn to the fact that products conforming to this British Standard may be approved by the British Electrotechnical Approvals Board for the purposes of participation in the CENELEC Certification Agreement and in the CB Scheme of the IECEE. (Details of the BEAB Approval Mark Scheme are given on the inside back cover).

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

Descriptors: Household electrical appliances, bath, safety requirements, protection against electric shock, fire protection, protection against mechanical hazard

English version

Safety of household and similar electrical appliances Part 2 : Particular requirements for whirlpool baths and similar equipment

(includes Amendments A51 : 1993, A52 : 1994 and A53 : 1997)

(IEC 335-2-60 : 1990, modified)

Sécurité des appareils électrodomestiques et
analogues
Deuxième partie: Règles particulières pour les
baignoires à système de brassage d'eau et
matériels analogues
(inclut les Amendments A51 : 1993, A52 : 1994
et A53 : 1997)
(CEI 335-2-60 : 1990, modifiée)

Sicherheit elektrischer Geräte für den
Hausgebrauch und ähnliche Zwecke
Teil 2: Besondere Anforderungen für
Sprudelbadegeräte und ähnliche Anlagen
(enthält Änderungen A51 : 1993, A52 : 1994
und A53 : 1997)
(IEC 335-2-60 : 1990, modifiziert)

This European Standard was approved by CENELEC on 10 December 1990. CENELEC members are bound to comply with the CEN/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 Central Secretariat or to any CENELEC member.

This European Standard exists in three official versions (English, French, 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 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.

CEN

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

Central Secretariat: rue de Stassart 36, B-1050 Brussels

Foreword

The proposal to endorse the first edition of IEC Publication IEC 335-2-60, document CLC/TC 61 (SEC) 679, was circulated under the enquiry procedure in February 1989.

This proposal was discussed during the Stockholm meeting in November 1989 when it was decided to submit a draft for EN 60335-2-60 to the voting procedure. This procedure started in April 1990.

The text of this draft was approved by all CENELEC members **with the exception of Austria** on the 10th of December 1990.

This European Standard has been prepared by the secretariat of CENELEC Technical Committee TC 61.

The following dates are applicable:

- latest date of publication(dop) 1991-07-01 of an identical national standard
- date of withdrawal of (dow) 1993-07-01 conflicting national standards

For products which have complied with the relevant national standard before 1993-07-01, as shown by the manufacturer or by a certification body, this previous standard may continue to apply for production until 1998-07-01.

This document supplements or modifies the corresponding clauses of IEC 335-2-60:1990, so as to convert that standard into the European Standard EN 60335-2-60.

This standard has to be used in conjunction with EN 60335-1:1988, Safety of household and similar electrical appliances, Part 1: General requirements, including its amendments A2:1988, A5:1989 and A6:1989.

Where a particular subclause of Part 1 is not mentioned in this Part 2, that subclause applies as far as is reasonable. Where the standard states 'addition', 'modification' or 'replacement', the relevant text of Part 1 is to be adapted accordingly.

Subclauses which are in addition to those in IEC 335-1 are numbered starting with 101.

There are no special national conditions (snc) causing a deviation from this European Standard, other than those listed in annex ZX to EN 60335-1.

National deviations from this European Standard are listed in annex ZY and are in addition to those in EN 60335-1.

Other publication quoted in this standard:

HD 365 S3:1985	Classification of degrees of protection provided by enclosures
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The following print types are used:

- requirements: in roman type
- *test specifications:* in italic type
- explanations: in small roman type

Foreword to amendment A51

A proposal to amend EN 60335-2-60 : 1991 was discussed during the Baden meeting in May 1991 and the Brussels meeting in November 1991, when it was decided to submit a draft for an amendment to the voting procedure.

This draft was circulated as prAA in November 1992 and was ratified by CENELEC as amendment A51 on 6 July 1993.

This amendment has been prepared by the secretariat of CENELEC Technical Committee TC 61.

The following dates are applicable:

- latest date of publication of an identical national standard (dop) 1994-03-01
- date of withdrawal of conflicting national standards (dow) 1994-03-01

This document modifies the corresponding clauses of EN 60335-2-60 : 1991.

There are no special national conditions (snc) causing a deviation from this amendment.

There are no national deviations from this amendment.

NOTE. Amendment numbers commencing A1 refer to the endorsement of IEC amendments, while those commencing A51 originate in CENELEC.

Foreword to amendment A52

A proposal to amend EN 60335-2-60 : 1991, document CLC/TC 61 (FR) 220, was discussed during the Berlin meeting in February 1993, when it was decided to submit a draft for an amendment to the unique acceptance procedure (UAP).

This draft was circulated as prAB in June 1993 and was ratified by CENELEC as amendment A52 on 8 March 1994.

This amendment has been prepared by the Secretariat of CENELEC Technical Committee TC 61.

The following dates are applicable:

- latest date of publication of an identical national standard (dop) 1995-01-01
- date of withdrawal of conflicting national standards (dow) 1997-01-01

For products which have complied with EN 60335-2-60 : 1991 and its amendment A51 : 1993 before 1997-01-01, as shown by the manufacturer or by a certification body, this previous standard may continue to apply for production until 2002-01-01.

This document supplements or modifies the corresponding clauses of EN 60335-2-60 : 1991 and its amendment.

EN 60335-2-60 : 1991 including this amendment has to be used in conjunction with EN 60335-1 : 1988, including its amendments A2 : 1989, A5 : 1989, A6 : 1989, A51 : 1991, A52 : 1992, A53 : 1992, A54 : 1992 and A55 : 1993.

There are no special national conditions (snc) causing a deviation from this amendment.

There are no national deviations from this amendment.

NOTE. Amendment numbers commencing A1 refer to the endorsement of IEC amendments, while those commencing A51 originate in CENELEC.

Foreword to amendment A53

A proposal to amend EN 60335-2-60 : 1991, document CLC/TC 61(SEC)759, was circulated under the enquiry procedure in December 1990. This proposal was discussed during the Brussels meeting in November 1991, when it was decided to request CEN TC 163 to comment on it. These comments, document CLC/TC 61(SEC)910, were discussed during the El Campello meeting in October 1993 when it was decided to submit a draft for an amendment to the Unique Acceptance Procedure (UAP).

This procedure started in August 1994 but due to the number of comments received, the draft was rediscussed during the Dublin meeting in May 1995, when it was decided to submit a second draft to the formal vote.

This draft was circulated as prAD in January 1996 and was ratified by CENELEC as amendment A53 on 1996-12-09.

This amendment has been prepared by secretariat of CENELEC Technical Committee TC 61.

The following dates are applicable:

- latest date of publication of an identical national standard (dop) 1997-06-01
- date of withdrawal of conflicting national standards (dow) 1999-06-01

For products which have complied with EN 60335-2-60 : 1991 and its amendments A51 : 1993 and A52 : 1994 before 1999-06-01, as shown by the manufacturer or by a certification body, this previous standard may continue to apply for production until 2001-06-01.

This amendment supplements or modifies the corresponding clauses of EN 60335-2-60 : 1991 and its amendments.

There are no special national conditions causing a deviation from this amendment.

There are no national deviations from this amendment.

NOTE. Amendment numbers commencing A1 refer to the endorsement of IEC amendments, while those commencing A51 originate in CENELEC.