

Environmental testing —

Part 2: Tests —

Test Eb and guidance: Bump

This Part should be read in conjunction with Part 1.1 General and guidance

The European Standard EN 60068-2-29:1993 has the status of a British Standard

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This British Standard, having been prepared under the direction of the General Electrotechnical Engineering Standards Committee, was published under the authority of the Board of BSI and comes into effect on 30 October 1987

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The Committees responsible for this British Standard are shown in Part 1.1.
The following BSI references relate to the work on this standard:
Committee reference GEL/15
Drafts for comment 83/27947DC and 85/25959DC

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Amendments issued since publication

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National foreword

This Part of BS 2011 has been prepared under the direction of the General Electrotechnical Engineering Standards Committee. It is identical with IEC Publication 68-2-29:1987 “Basic environmental testing procedures. Part 2: Tests — Test Eb and guidance: Bump”, published by the International Electrotechnical Commission (IEC).

In 1993 the European Committee for Electrotechnical Standardization (CENELEC) accepted IEC 68-2-29:1987 as European Standard EN 60068-2-29:1993. As a consequence of implementing the European Standard this British Standard is renumbered as BS EN 60068-2-29 and any reference to BS 2011-2.1Eb should be read as a reference to BS EN 60068-2-29.

The title of this Part of BS EN 60068 has been changed to “Environmental testing” to correspond with the change in title of IEC Publication 68. This change reflects the fact that IEC Publication 68 and BS EN 60068 are concerned with the whole subject of testing and avoids any possible confusion over whether it is the “procedures” or the “testing” that are basic. Amendments are not being issued to the other Parts of BS EN 60068, but their titles are being changed when these Parts are revised.

This revision supersedes BS 2011-2.1 Eb:1977 which is withdrawn.

Terminology and conventions. The text of the international standard has been approved as suitable for publication as a British Standard without deviation. Some terminology and certain conventions are not identical with those used in British Standards; attention is drawn especially to the following.

For the purposes of this Part of this standard, the scope clause is given in BS 2011-1.1.

The comma has been used as a decimal marker. In British Standards it is current practice to use a full point on the baseline as the decimal marker.

Wherever page numbers are quoted, they are IEC page numbers.

Cross-references

International standard ¹⁾	Corresponding British Standard
	BS 2011 Basic environmental testing procedures
IEC 68-1:1982	Part 1.1:1983 General and guidance (Identical)
IEC 68-2-27:1987	Part 2.1 Ea:1987 Test Ea. Shock (Identical)
IEC 68-2-31:1969	Part 2.1 Ec:1977 Test Ec. Drop and topple, primarily for equipment-type specimens (Identical)
IEC 68-2-32:1975	Part 2.1 Ed:1977 Test Ed. Free fall (Identical)
IEC 68-2-47:1982	Section 4.1:1983 Specification for mounting of components, equipment and other articles for dynamic tests (Identical)
²⁾ IEC 68-2-55:1987	Part 2.1 Ee Test Ee. Bounce (Identical)

¹⁾ Undated in the text.

²⁾ Already published and referred to in the text as IEC 68-2-XX. The identical British Standard to IEC 68-2-55 is BS 2011-2.1 Ee which is in preparation.

The Technical Committee has reviewed the provisions of IEC 721-3-1 and 721-3-5 and also of ISO 2041, to which reference is made in the text, and has decided that they are acceptable for use in conjunction with this standard. BS 3015:1976 “Glossary of terms relating to mechanical vibration and shock” is a related standard for ISO 2041.

NOTE *Typographical error.* In A.3, in the penultimate paragraph, in line 2, “measure or confidence” should read “measure of confidence”.

WARNING NOTE. This British Standard calls for the use of procedures that may be injurious to health if adequate precautions are not taken. It refers only to technical suitability and does not absolve the user from legal obligations relating to health and safety at any stage.

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 document comprises a front cover, an inside front cover, pages i to iv, the EN title page, pages 2 to 14, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

Descriptors: Electricity, components, equipment, mechanical test, bump, test, procedures, components specifications writing, equipment specifications writing

English version

Basic environmental testing procedures Part 2: Tests Test Eb and guidance: Bump

(IEC 68-2-29:1987 + corrigendum)

Essais fondamentaux climatiques et de
robustesse mécanique
Deuxième partie: Essais
Essai Eb et guide: Secousses
(CEI 68-2-29:1987)

Grundlegende Umweltprüfverfahren
Teil 2: Prüfungen
Prüfung Eb und Leitfaden: Dauerschocken
(IEC 68-2-29:1987)

This European Standard was approved by CENELEC on 1993-03-09. 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.

CENELEC

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

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