

Environmental testing —

Part 2: Tests —

**Mounting of components, equipment
and other articles for dynamic tests
including shock (Ea), bump (Eb),
vibration (Fc and Fd) and steady-state
acceleration (Ga) and guidance**

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

The European Standard EN 60068-2-47:1993 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 29 April 1983

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The following BSI references relate to the work on this standard:
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Amendments issued since publication

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7835	June 1993	Indicated by a sideline in the margin

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National foreword

This British Standard has been prepared under the direction of the General Electrotechnical Engineering Standards Committee. It is identical with IEC Publication 68-2-47:1982 “*Basic environmental testing procedures, Part 2: Tests — Mounting of components, equipment and other articles for dynamic tests including shock (Ea), bump (Eb), vibration (Fc and Fd) and steady-state acceleration (Ga) and guidance*”, published by the International Electrotechnical Commission (IEC).

In 1993 the European Committee for Electrotechnical Standardization (CENELEC) accepted IEC 68-2-47:1982 as European Standard EN 60068-2-47:1993. As a consequence of implementing the European Standard this British Standard is renumbered as BS EN 60068-2-47 and any reference to BS 2011-4.1 should be read as a reference to BS EN 60068-2-47.

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.

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.

The comma has been used in Figure 2 as a decimal marker; in British Standards it is current practice to use a full point on the baseline as the decimal marker.

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

Cross-references

International Standard ^a	Corresponding British Standard
IEC 68-2-6:1982	BS 2011 <i>Basic environmental testing procedures</i> Part 2.1 Fc:1983 <i>Test Fc. Vibration (sinusoidal)</i> (Identical)

^a Undated in the text.

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 and ii, 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, dynamic tests, mounting, procedures, components specifications writing, equipment specifications writing

English version

Basic environmental testing procedures

Part 2: Tests

Mounting of components, equipment and other articles for dynamic tests including shock (Ea), bump (Eb), vibration (Fc and Fd) and steady-state acceleration (Ga) and guidance

(IEC 68-2-47:1982)

Essais fondamentaux climatiques et de robustesse mécanique

Deuxième partie: Essais

Fixation de composants, matériels et autres articles pour essais dynamiques tels que chocs (Ea), secousses (Eb), vibrations (Fc et Fd) et accélération constante (Ga) et guide
(CEI 68-2-47:1982)

Grundlegende Umweltprüfverfahren
Teil 2: Prüfungen

Befestigung von Baulelementen, Geräten und anderen technischen Erzeugnissen für dynamische Prüfungen wie Schocken (Ea), Dauerschocken (Eb), Schwingen (Fc und Fd) und Beschleunigen, gleichförmig (Ga) einschließlich Leitfaden
(IEC 68-2-47:1982)

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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Foreword

At the request of CENELEC Reporting Secretariat SR 50A, HD 323.2.47 S1:1988 (IEC 68-2-47:1982) was submitted to the CENELEC voting procedure for conversion into a European Standard.

The text of the International Standard was approved by CENELEC as EN 60068-2-47 on 9 March 1993.

The following dates were fixed:

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

Annexes designated “normative” are part of the body of the standard. In this standard, Annex ZA is normative.

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