

BS 2011 : Part 2.1 Ff : 1989 IEC 68-2-57 : 1989

UDC 621.3.002.6.001.4 : 620.178.53 :
115 – (091).001.3

British Standard

Environmental testing

Part 2.1 Tests

Test Ff. Vibration – Time-history method

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

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National foreword

This Part of BS 2011 has been prepared under the direction of the General Electrotechnical Standards Policy Committee. It is identical with IEC 68-2-57 : 1989, 'Environmental testing. Part 2 : Tests – Test Ff : Vibration – Time-history method', published by the International Electrotechnical Commission (IEC).

All Parts of IEC Publication 68 are endorsed by CENELEC Harmonization Document (HD) 323, as a general rule, although in some cases an enquiry is made before endorsement.

The title of BS 2011 has been changed to 'Environmental testing' to correspond with the change in the title of IEC Publication 68. This change reflects the fact that IEC Publication 68 and BS 2011 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 2011, but their titles are being changed when these Parts are revised.

Cross-references

International standard*	Corresponding British Standard
IEC 68-1 : 1988	BS 2011 : Part 1.1 : 1989 General and guidance (Identical)
IEC 68-2-6 : 1982	Part 2.1 Fc : 1983 Test Fc Vibration (sinusoidal) (Identical)
IEC 68-2-47 : 1982	Section 4.1 : 1983 Specification for mounting of components, equipment and other articles for dynamic tests (Identical)

The Technical Committee has reviewed the provisions 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 2041-1975.

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 time.

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

*Undated in the text.

Amendment No. 1
published and effective from 15 June 1993
to BS 2011 : Part 2.1Ff : 1989

Environmental testing
Part 2.1 Tests
Test Ff. Vibration – Time history method

NOTE. The European Committee for Electrotechnical Standardization (CENELEC) has accepted IEC 68-2-57 : 1989 as a European Standard designated as EN 60068-2-57 : 1993. This amendment implements EN 60068-2-57 : 1993 as a British Standard in the BS EN series.

Implementation of European Standard

New front page, EN title page and foreword

Attach the new front page, and new EN title page and foreword supplied.

NOTE. If reprinted, the EN title page and foreword will be inserted immediately before the international text, as appropriate.

AMD 7834/June 1993

Existing front page

Delete all the existing text before the contents.

AMD 7834/June 1993

Inside front page

In the national foreword, delete the existing paragraph 2 and substitute the following paragraph.

'In 1993 the European Committee for Electrotechnical Standardization (CENELEC) accepted IEC 68-2-57 : 1989 as European Standard EN 60068-2-57 : 1993. As a consequence of implementing the European Standard this British Standard is renumbered as BS EN 60068-2-57 and any reference to BS 2011 : Part 2.1Ff should be read as a reference to BS EN 60068-2-57.'

AMD 7834/June 1993

New annex ZA

Immediately after figure 4, insert the attached annex ZA.

AMD 7834/June 1993

Environmental testing

Part 2. Tests

Test Ff: Vibration – Time-history method

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

The European Standard EN 60068-2-57 : 1993 has the status of a British Standard

Essais d'environnement
Deuxième partie. Essais
Essai Ff: Vibrations —
Méthode par accélérogrammes

Umweltprüfverfahren
Teil 2. Prüfungen
Prüfung Ff: Schwingen –
Zeitverlaufverfahren

UDC 621.3 : 049.7 : 620.193

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Documents

Document Sharing Hub

Descriptors: Electricity, component, equipment, mechanical test, vibration, time-history, procedures, components specifications writing, equipment specifications writing

English version

Environmental testing
Part 2: Test methods – Test Ff: Vibration
Time-history method

(IEC 68-2-57 : 1989)

Essais d'environnement
Deuxième partie: Méthodes d'essai
Essai Ff: Vibrations
Méthode par accélérogrammes
(CEI 68-2-57 : 1989)

Umweltprüfungen
Teil 2: Prüfungen
Prüfung Ff: Schwingen,
Zeitverlaufverfahren
(IEC 68-2-57 : 1989)

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

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

Foreword

At the request of CENELEC Reporting Secretariat SR 50A, HD 323.2.57 S1 : 1990 (IEC 68-2-57 : 1989) 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 60068-2-57 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.

Annex ZA (normative)

Other international publications quoted in this standard with the references of the relevant European publications

When the international publication has been modified by CENELEC common modifications, indicated by (mod), the relevant EN/HD applies.

IEC Publication	Date	Title	EN/HD	Date
68-1	1988	Basic environmental testing procedures Part 1: General and guidance	HD 323.1 S2	1988
68-2-6	1982	Part 2: Tests – Test Fc and guidance: Vibration (sinusoidal)	HD 323.2 6 S2*	1988
68-2-47	1982	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	EN 60068-2-47	1993
68-3-3	1991	Part 3: Guidance – Seismic test methods for equipments	EN 60068-3-3	1993

Other publication quoted:

ISO 2041	1975	Vibration and shock – Vocabulary
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* HD 323.2.6 S2 includes A1 : 1983 + A2 : 1985 to IEC 68-2-6

