



BSI British Standards

Environmental testing —

Part 2-31: Tests – Test Ec:
Rough handling shocks, primarily for
equipment-type specimens

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National foreword

This British Standard is the UK implementation of EN 60068-2-31:2008. It is identical to IEC 60068-2-31:2008. It supersedes BS EN 60068-2-31:1993 and BS EN 60068-2-32:1993, which are withdrawn.

The UK participation in its preparation was entrusted to Technical Committee GEL/104, Environmental conditions, classification and testing.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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Compliance with a British Standard cannot confer immunity from legal obligations.

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Amendments issued since publication

Amd. No.	Date	Text affected
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English version

**Environmental testing -
Part 2-31: Tests -
Test Ec: Rough handling shocks,
primarily for equipment-type specimens
(IEC 60068-2-31:2008)**

Essais d'environnement -
Partie 2-31: Essais -
Essai Ec: Choc lié à des
manutentions brutales,
essai destiné en premier lieu
aux matériels
(CEI 60068-2-31:2008)

Umgebungseinflüsse -
Teil 2-31: Prüfverfahren -
Prüfung Ec: Schocks durch
raue Handhabung,
vornehmlich für Geräte
(IEC 60068-2-31:2008)

This European Standard was approved by CENELEC on 2008-07-01. 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, Bulgaria, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the 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

The text of document 104/458/FDIS, future edition 2 of IEC 60068-2-31, prepared by IEC TC 104, Environmental conditions, classification and methods of test, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60068-2-31 on 2008-07-01.

This European Standard supersedes EN 60068-2-31:1993 and EN 60068-2-32:1993.

The major changes with regard to EN 60068-2-31:1993 concern the introduction of soft packaging tests, where appropriate. EN 60068-2-31:2008 now incorporates EN 60068-2-32:1993.

The following dates were fixed:

- | | | |
|--|-------|------------|
| – latest date by which the EN has to be implemented
at national level by publication of an identical
national standard or by endorsement | (dop) | 2009-04-01 |
| – latest date by which the national standards conflicting
with the EN have to be withdrawn | (dow) | 2011-07-01 |

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 60068-2-31:2008 was approved by CENELEC as a European Standard without any modification.

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

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

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60068-2-27	- ¹⁾	Environmental testing - Part 2-27: Tests - Test Ea and guidance: Shock	-	-
IEC 60068-2-55	1987	Environmental testing - Part 2: Tests - Test Ee and guidance: Bounce	EN 60068-2-55	1993
IEC Guide 104	- ¹⁾	The preparation of safety publications and the - use of basic safety publications and group safety publications	-	-
ISO 48	2007	Rubber, vulcanized or thermoplastic - Determination of hardness (hardness between 10 IRHD and 100 IRHD)	-	-
ISO 4180-2	1980	Complete, filled transport packages - General rules for the compilation of performance test schedules - Part 2: Quantitative data	EN 24180-2	1992

¹⁾ Undated reference.

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