



National Standards Authority of Ireland

IRISH STANDARD

**I.S. EN 60068-2-29:1995**

ICS 13.020

**BASIC ENVIRONMENTAL TESTING  
PROCEDURES. PART 2: TESTS – TEST EB  
AND GUIDANCE: BUMP  
(IEC 68-2-29:1987+CORRIGENDUM)**

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Údarás um Chaighdeáin Náisiúnta na hÉireann



NORME EUROPEENNE

EUROPÄISCHE NORM

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UDC 621.3:620.193:620.178.1

Supersedes HD 323.2.29 S2:1989

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

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

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### FOREWORD

At the request of CENELEC Reporting Secretariat SR 50A, HD 323.2.29 S2:1989 (IEC 68-2-29:1987 + corrigendum) 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 60068-2-29 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.

### ENDORSEMENT NOTICE

The text of the International Standard IEC 68-2-29:1987 and its corrigendum was approved by CENELEC as a European Standard without any modification.

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## 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<br>Publication<br>----- | Date<br>----- | Title<br>-----   | EN/HD<br>----- | Date<br>----- |
|-----------------------------|---------------|--|----------------|---------------|
| 68-1                        | 1982*         | Basic environmental testing procedures<br>Part 1: General and guidance   | HD 323.1 S1    | 1988          |
| 68-2-27                     | 1987          | Part 2: Tests - Test Ea and guidance:<br>Shock   | EN 60068-2-27  | 1993          |
| 68-2-31                     | 1969          | Test Ec: Drop and topple, primarily<br>for equipment-type specimens  | EN 60068-2-31* | 1993          |
| 68-2-32                     | 1975          | Test Ed: Free fall   | EN 60068-2-32* | 1993          |
| 68-2-47                     | 1982          | Mounting of components, equipment<br>and other articles for dynamic tests<br>including shock (Ea), bump (Eb),<br>vibration (Fc and Fd) and<br>steady-state acceleration (Ga)<br>and guidance | EN 60668-2-47  | 1993          |
| 68-2-55                     | 1987          | Test Ee and guidance: Bounce   | EN 60068-2-55  | 1993          |
| 721-3-1                     | 1987          | Classification of environmental<br>conditions - Part 3: Classification of<br>groups of environmental parameters and<br>their severities - Storage  | EN 60721-3-1*  | 1993          |
| 721-3-5                     | 1985          | Ground vehicle installations   | EN 60721-3-5*  | 1993          |

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\* IEC 68-1:1982 is superseded by IEC 68-1:1988 which is harmonized as  
HD 323.1 S2:1988  
EN 60068-2-31 includes A1:1982 to IEC 68-2-31  
EN 60068-2-32 includes A1:1982 + A2:1990 to IEC 68-2-32  
EN 60721-3-1 includes A1:1991 to IEC 721-3-1  
EN 60721-3-5 includes A1:1991 to IEC 721-3-5



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