## SLOVENSKI PREDSTANDARD

## oSIST prEN 60068-2-31:2007

februar 2007

# Okoljski preskusi - 2-31. del: Preskusi - Preskus Ec: Udari zaradi neustreznega ravnanja, predvsem za vzorčno opremo

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

# iTeh Standards (https://standards.iteh.ai) Document Preview

SIST EN 60068-2-31:2008

https://standards.iteh.ai/catalog/standards/sist/9179abc8-7635-4f80-93a2-92a79fa49226/sist-en-60068-2-31-2008

ICS 19.040

Referenčna številka oSIST prEN 60068-2-31:2007(en)

🕲 Standard je založil in izdal Slovenski inštitut za standardizacijo. Razmnoževanje ali kopiranje celote ali delov tega dokumenta ni dovoljeno

## iTeh Standards (https://standards.iteh.ai) Document Preview

<u>SISTEN 60068-2-31:2008</u> https://standards.iteh.ai/catalog/standards/sist/9179abc8-7635-4f80-93a2-92a79fa49226/sist-en-60068-2-31-2008

## 104/402/CDV

### COMMITTEE DRAFT FOR VOTE (CDV) PROJET DE COMITÉ POUR VOTE (CDV)

100	Project number IEC 60068-2-31 Ed. 2.0 Numéro de projet			
	IEC/TC or SC: 104	1	Secretariat / Sec	crétariat
	CEI/CE ou SC:		Sweden	
Submitted for parallel voting in	Date of circulation		Closing date for	voting (Voting
CENELEC	Date de diffusion		mandatory for P	-members)
	2006-10-13		Date de cloture	du vote (vote
Soumis au vote parallèle au			2007_03_16	les membres (F))
CENELEC			2007-03-10	
Also of interest to the following committees		Supersedes document		
		104/376/CD and 104/401/CC		
Functions concerned				
Fonctions concernées				
Safety EN	ЛС	Environmen	t 🗌	Quality assurance
Sécurité CE	EM	Environnem	ent	Assurance qualité
CE DOCUMENT EST TOUJOURS À L'ÉTUDE ET SUSCEPTIBLE DE		THIS DOCUMENT IS STILL UNDER STUDY AND SUBJECT TO CHANGE. IT		
MODIFICATION. IL NE PEUT SERVIR DE RÉFÉRENCE.		SHOULD NOT BE USED FOR REFERENCE PURPOSES.		

LES RÉCIPIENDAIRES DU PRÉSENT DOCUMENT SONT INVITÉS À PRÉSENTER, AVEC LEURS OBSERVATIONS, LA NOTIFICATION DES DROITS DE PROPRIÉTÉ DONT ILS AURAIENT ÉVENTUELLEMENT CONNAISSANCE ET À FOURNIR UNE DOCUMENTATION EXPLICATIVE. RECIPIENTS OF THIS DOCUMENT ARE INVITED TO SUBMIT, WITH THEIR COMMENTS, NOTIFICATION OF ANY RELEVANT PATENT RIGHTS OF WHICH THEY ARE AWARE AND TO PROVIDE SUPPORTING DOCUMENTATION.

## iTeh Standards

Titre : CEI 60068-2-31 Ed. 2.0: Essais d'environnement – Partie 2-31: Essais. Essai Ec: Chute et culbute, essai destiné en premier lieu aux matériels Title : IEC 60068-2-31, Ed.2.0: Environmental testing – Part 2-31: Tests – Test Ec: Rough Handling Shocks, primarily for equipment-type specimens

### <u>SIST EN 60068-2-31:2008</u>

https://standards.iteh.ai/catalog/standards/sist/9179abc8-7635-4180-93a2-92 Note d'introduction Introductory note

La version française sera diffusée ultérieurement.

TC 104 MT 17 has in this document combined IEC 60068-2-31 and 60068-2-32 in line with a decision taken in Lindenstruth Germany in 2003. The convener and MT 17 have prepared the document for circulation as CDV following the discussions at the last meeting in Stockholm in June 2006.

#### ATTENTION VOTE PARALLÈLE CEI – CENELEC

L'attention des Comités nationaux de la CEI, membres du CENELEC, est attirée sur le fait que ce projet de comité pour vote (CDV) de Norme internationale est soumis au vote parallèle.

Un bulletin de vote séparé pour le vote CENELEC leur sera envoyé par le Secrétariat Central du CENELEC.

#### ATTENTION IEC – CENELEC PARALLEL VOTING

The attention of IEC National Committees, members of CENELEC, is drawn to the fact that this Committee Draft for Vote (CDV) for an International Standard is submitted for parallel voting.

A separate form for CENELEC voting will be sent to them by the CENELEC Central Secretariat.

1906-2006 The electric century

**Copyright © 2006 International Electrotechnical Commission, IEC.** All rights reserved. It is permitted to download this electronic file, to make a copy and to print out the content for the sole purpose of preparing National Committee positions. You may not copy or "mirror" the file or printed version of the document, or any part of it, for any other purpose without permission in writing from IEC.

### CONTENTS

Cla	useF	⊃age
1	Scope	5
2	General Description	5
3	Normative references	6
4	Testing procedures	6
5	Testing	6
6	Final Measurements	7
7	Description of the test (drop and topple)	7
8	Description of the test (free fall)	7
9	Information to be included in the relevant specification	8
10	Information to be given in the test report	9
Anr	nex A (NORMATIVE) Test apparatus for repeated free fall Test Ed, proc. 2	11
Anr	nex B Informative Guidance: Selection of test severities for free fall tests	13

## iTeh Standards (https://standards.iteh.ai) Document Preview

SIST EN 60068-2-31:2008

https://standards.iteh.ai/catalog/standards/sist/9179abc8-7635-4f80-93a2-92a79fa49226/sist-en-60068-2-31-2008

### INTERNATIONAL ELECTROTECHNICAL COMMISSION

### **ENVIRONMENTAL TESTING –**

### Part 2: Tests – Test Ec: Rough Handling Shocks, primarily for equipment-type specimens

### FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
- The formal decisions or agreements of IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested IEC National Committees.
- 3) IEC Publications have the form of recommendations for international use and are accepted by IEC National Committees in that sense. While all reasonable efforts are made to ensure that the technical content of IEC Publications is accurate, IEC cannot be held responsible for the way in which they are used or for any misinterpretation by any end user.
- 4) In order to promote international uniformity, IEC National Committees undertake to apply IEC Publications transparently to the maximum extent possible in their national and regional publications. Any divergence between any IEC Publication and the corresponding national or regional publication shall be clearly indicated in the latter.
- 5) IEC provides no marking procedure to indicate its approval and cannot be rendered responsible for any equipment declared to be in conformity with an IEC Publication.

6) All users should ensure that they have the latest edition of this publication. 92a79fa49226/sist-en-60068-2-31-2008

- 7) No liability shall attach to IEC or its directors, employees, servants or agents including individual experts and members of its technical committees and IEC National Committees for any personal injury, property damage or other damage of any nature whatsoever, whether direct or indirect, or for costs (including legal fees) and expenses arising out of the publication, use of, or reliance upon, this IEC Publication or any other IEC Publications.
- 8) Attention is drawn to the Normative references cited in this publication. Use of the referenced publications is indispensable for the correct application of this publication.
- 9) Attention is drawn to the possibility that some of the elements of this IEC Publication may be the subject of patent rights. IEC shall not be held responsible for identifying any or all such patent rights.

International Standard IEC 60068-2-31 Ed. 2.0 has been prepared by IEC technical committee 104: Environmental conditions, classification and methods of test

The text of this standard is based on the following documents:

FDIS	Report on voting	
XX/XX/FDIS	XX/XX/RVD	

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

The committee has decided that the contents of this publication will remain unchanged until the maintenance result date<sup>1)</sup> indicated on the IEC web site under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

## iTeh Standards (https://standards.iteh.ai) Document Preview

SIST EN 60068-2-31:2008

https://standards.iteh.ai/catalog/standards/sist/9179abc8-7635-4f80-93a2-92a79fa49226/sist-en-60068-2-31-2008

<sup>1)</sup> The National Committees are requested to note that for this publication the maintenance result date is 2017