



**NSAI**  
Standards

Irish Standard  
I.S. EN 60695-4:2012

# Fire hazard testing -- Part 4: Terminology concerning fire tests for electrotechnical products (IEC 60695 -4:2012 (EQV))

## I.S. EN 60695-4:2012

*Incorporating amendments/corrigenda issued since publication:*

The National Standards Authority of Ireland (NSAI) produces the following categories of formal documents:

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SWiFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

<i>This document replaces:</i> EN 60695-4:2006	<i>This document is based on:</i> EN 60695-4:2012 EN 60695-4:2006	<i>Published:</i> 3 August, 2012 12 October, 2006
This document was published under the authority of the NSAI and comes into effect on:  10 August, 2012		ICS number: 01.040.13 29.020
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**EUROPEAN STANDARD**

**EN 60695-4**

**NORME EUROPÉENNE**

**EUROPÄISCHE NORM**

August 2012

ICS 01.040.13; 29.020

Supersedes EN 60695-4:2006

English version

**Fire hazard testing -  
Part 4: Terminology concerning fire tests for electrotechnical products  
(IEC 60695-4:2012)**

Essais relatifs aux risques du feu -  
Partie 4: Terminologie relative aux essais  
au feu pour les produits électrotechniques  
(CEI 60695-4:2012)

Prüfungen zur Beurteilung der  
Brandgefahr -  
Teil 4: Terminologie der Brandprüfungen  
elektrotechnischer Produkte  
(IEC 60695-4:2012)

This European Standard was approved by CENELEC on 2012-06-13. 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 CEN-CENELEC Management Centre 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 CEN-CENELEC Management Centre has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

**CENELEC**

European Committee for Electrotechnical Standardization  
Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

**Management Centre: Avenue Marnix 17, B - 1000 Brussels**

## **Foreword**

The text of document 89/1098/FDIS, future edition 4 of IEC 60695-4, prepared by IEC/TC 89 "Fibre hazard testing" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 60695-4:2012.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2013-03-13
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2015-06-13

This document supersedes EN 60695-4:2006.

EN 60695-4:2012 includes the following significant technical changes with respect to EN 60695-4:2006:

- the terms and definitions that are not specifically electrotechnical and that are either identical or equivalent to those in EN ISO 13943:2010 have been deleted;
- the terms and definitions that are specifically electrotechnical and that are in EN ISO 13943:2010 have been included for the convenience of the user;
- some new terms have been included.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC [and/or CEN] shall not be held responsible for identifying any or all such patent rights.

## **Endorsement notice**

The text of the International Standard IEC 60695-4:2012 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 documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. 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 Guide 104	2010	The preparation of safety publications and the use of basic safety publications and group safety publications	-	-
IEC 60050	Series	International Electrotechnical Vocabulary	-	-
ISO 13943	2008	Fire safety - Vocabulary	EN ISO 13943	2010
ISO/IEC Guide 51	1999	Safety aspects - Guidelines for their inclusion in standards	-	-

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**FIRE HAZARD TESTING –****Part 4: Terminology concerning fire tests  
for electrotechnical products****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.
- 2) 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.
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- 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 60695-4 has been prepared by IEC technical committee 89: Fire hazard testing.

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

FDIS	Report on voting
89/1098/FDIS	89/1112/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.

This fourth edition of IEC 60695-4 cancels and replaces the third edition issued in 2005. It constitutes a technical revision.



This standard has the status of a basic safety publication in accordance with IEC Guide 104 and ISO/IEC Guide 51.

The main changes with respect to the previous edition are listed below:

- The terms and definitions that are not specifically electrotechnical and that are either identical or equivalent to those in ISO 13943:2008 have been deleted.
- The terms and definitions that are specifically electrotechnical and that are in ISO 13943:2008 have been included for the convenience of the user.
- Some new terms have been included.

A list of all the parts in the IEC 60695 series, under the general title *Fire hazard testing*, can be found on the IEC website.

The following introductory elements represent a series of publications:

- Part 1: Guidance for assessing the fire hazard of electrotechnical products
- Part 2: Glowing/hot-wire based test methods
- Part 4: Terminology concerning fire tests for electrotechnical products
- Part 5: Corrosion damage effects of fire effluent
- Part 6: Smoke obscuration
- Part 7: Toxicity of fire effluent
- Part 8: Heat release
- Part 9: Surface spread of flame
- Part 10: Abnormal heat
- Part 11: Test flames

The committee has decided that the contents of this publication will remain unchanged until the stability date 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.

## **FIRE HAZARD TESTING –**

### **Part 4: Terminology concerning fire tests for electrotechnical products**

#### **1 Scope**

The terms and definitions in this standard are applicable to fire tests for electrotechnical products.

This basic safety publication is intended for use by technical committees in the preparation of standards in accordance with the principles laid down in IEC Guide 104 and ISO/IEC Guide 51.

One of the responsibilities of a technical committee is, wherever applicable, to make use of basic safety publications in the preparation of its publications. The requirements, test methods or test conditions of this basic safety publication will not apply unless specifically referred to or included in the relevant publications.

#### **2 Normative references**

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

IEC Guide 104:2010, *The preparation of safety publications and the use of basic safety publications and group safety publications*

IEC 60050, *International Electrotechnical vocabulary*

ISO 13943:2008, *Fire safety – Vocabulary*

ISO/IEC Guide 51:1999, *Safety aspects – Guidelines for their inclusion in standards*

#### **3 Terms and definitions**

##### **3.1 Use of the term “item”**

For the purposes of this document, the English term “item” is used in a general meaning to represent any single object or assembly of objects, and may cover, for example, material, product, assembly, structure or building, as required in the context of any individual definition. If the “item” under consideration is a test specimen then the term “test specimen” is used.

##### **3.2 Other terms and definitions**

For the purposes of this document, the following terms and definitions apply.

NOTE Terms and definitions that are specifically electrotechnical and that are in ISO 13943:2008 have been included below for the convenience of the user.

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