

Fire hazard testing - Part 1-30: Guidance for assessing
the fire hazard of electrotechnical products -
Preselection testing process - General guidelines

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

| | |
|---|--|
| See Eesti standard EVS-EN 60695-1-30:2017 sisaldab Euroopa standardi EN 60695-1-30:2017 ingliskeelset teksti. | This Estonian standard EVS-EN 60695-1-30:2017 consists of the English text of the European standard EN 60695-1-30:2017. |
| Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas | This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation. |
| Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 26.05.2017. | Date of Availability of the European standard is 26.05.2017. |
| Standard on kättesaadav Eesti Standardikeskusest. | The standard is available from the Estonian Centre for Standardisation. |

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English Version

Fire hazard testing - Part 1-30: Guidance for assessing the fire
hazard of electrotechnical products -
Preselection testing process - General guidelines
(IEC 60695-1-30:2017)

Essais relatifs aux risques du feu - Partie 1-30: Lignes
directrices pour l'évaluation des risques du feu des produits
électrotechniques - Processus d'essais de présélection -
Lignes directrices générales
(IEC 60695-1-30:2017)

Prüfungen zur Beurteilung der Brandgefahr - Teil 1-30:
Anleitung zur Beurteilung der Brandgefahr von
elektrotechnischen Erzeugnissen - Anwendung von
Vorauswahlverfahren - Allgemeiner Leitfaden
(IEC 60695-1-30:2017)

This European Standard was approved by CENELEC on 2017-03-28. 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.

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

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European foreword

The text of document 89/1350/FDIS, future edition 3 of IEC 60695-1-30, prepared by IEC/TC 89 "Fire hazard testing" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 60695-1-30:2017.

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) 2017-12-28
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2020-03-28

This document supersedes EN 60695-1-30:2008.

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Endorsement notice

The text of the International Standard IEC 60695-1-30:2017 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following note has to be added for the standard indicated :

| | | |
|--------------------------|------|---|
| IEC 60335-1:2010 | NOTE | Harmonized as EN 60335-1:2012 (modified). |
| IEC 60335-1:2010/A1:2013 | NOTE | Harmonized as EN 60335-1:2012/A1:201X ¹⁾ (modified). |

1) At draft stage.

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 1 When an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu.

| <u>Publication</u> | <u>Year</u> | <u>Title</u> | <u>EN/HD</u> | <u>Year</u> |
|--------------------|-------------|---|---------------|-------------|
| IEC 60695-1-10 | - | Fire hazard testing - Part 1-10: Guidance for assessing the fire hazard of electrotechnical products - General guidelines | EN 60695-1-10 | - |
| IEC 60695-1-11 | - | Fire hazard testing - Part 1-11: Guidance for assessing the fire hazard of electrotechnical products - Fire hazard assessment | EN 60695-1-11 | - |
| IEC 60695-1-12 | - | Fire hazard testing - Part 1-12: Guidance for assessing the fire hazard of electrotechnical products - Fire safety engineering | - | - |
| IEC 60695-4 | 2012 | Fire hazard testing - Part 4: Terminology concerning fire tests for electrotechnical products | EN 60695-4 | 2012 |
| IEC Guide 104 | - | The preparation of safety publications and the use of basic safety publications and group safety publications | - | - |
| ISO/IEC Guide 51 | - | Safety aspects - Guidelines for their inclusion in standards | - | - |
| ISO 13943 | 2008 | Fire safety - Vocabulary | EN ISO 13943 | 2010 |

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INTRODUCTION

In the design of any electrotechnical product, the risk of fire and the potential hazards associated with fire need to be considered. In this respect the objective of component, circuit and equipment design as well as the choice of materials is to reduce the risk of fire to a tolerable level even in the event of reasonably foreseeable (mis)use, malfunction or failure. IEC 60695-1-10, IEC 60695-1-11 and IEC 60695-1-12 provide guidance on how this is to be accomplished.

The best method for testing electrotechnical products with regard to fire hazard is to duplicate exactly the conditions occurring in practice within a real-scale fire test. Where this is not practicable, fire hazard testing is conducted by simulating as closely as possible, the actual conditions of use and of the situation to which a sub-assembly, component, part or material may be exposed in such use.

Preselection is the procedure for assessing and choosing materials, components or sub-assemblies for parts of end products. Preselection has been used for many years to assist in the design stage of the end product.

The information gained from properly designed small-scale tests can be used as an aid for the preselection of appropriate materials, parts, components or sub-assemblies with regard to the fire hazard evaluation of the final end product. As an outcome of conducting a fire hazard assessment, an appropriate series of preselection flammability and ignition tests may enable reduced end product testing.

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