SLOVENSKI STANDARD
SIST EN 60695-11-4:2012

01-januar-2012

Preskušanje požarne ogroženosti - 11-4. del: Preskusni plameni - 50-vatni plameni: aparat in metode potrjevanja preskusov

Fire hazard testing - Part 11-4: Test flames - 50 W flames - Apparatus and confirmational test methods

Prüfungen zur Beurteilung der Brandgefahr - Teil 11-4: Prüfflammen - 50 W Prüfflamme - Prüfeinrichtungen und Prüfverfahren zur Bestätigung

Essais relatifs aux risques du feu - Partie 11-4: Flammes d'essai - Flamme de 50 W - Appareillage et méthodes d'essai de vérification

Ta slovenski standard je istoveten z: **EN 60695-11-4:2011**

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29.020	Elektrotehnika na splošno	Electrical engineering in general

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Fire hazard testing - Part 11-4: Test flames - 50 W flame - Apparatus and confirmational test method

(IEC 60695-11-4:2011)

Essais relatifs aux risques du feu - Partie 11-4: Flammes d'essai - Flamme de 50 W - Appareillage et méthodes d'essai de vérification

(CEI 60695-11-4:2011)

Prüfungen zur Beurteilung der Brandgefahr - Teil 11-4: Prüfflammen - 50 W Prüfflamme - Prüfeinrichtungen und Prüfverfahren zur Bestätigung

(IEC 60695-11-4:2011)

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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 89/1060/FDIS, future edition 1 of IEC 60695-11-4, prepared by IEC/TC 89 "Fire hazard testing" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 60695-11-4:2011.

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)	2012-08-01
• latest date by which the national standards conflicting with the document have to be withdrawn	(dow)	2014-11-01

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Endorsement notice

The text of the International Standard IEC 60695-11-4:2011 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 60695-11-2:2003 NOTE Harmonized as EN 60695-11-2:2003 (not modified).

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.

Publication	Year	Title	EN/HD	Year
IEC 60584-1	1995	Thermocouples - Part 1: Reference tables	EN 60584-1	1995
IEC 60584-2 + A1	1982 1989	Thermocouples - Part 2: Tolerances	EN 60584-2	1993
IEC Guide 104	1997	The preparation of safety publications and the use of basic safety publications and group safety publications	-	-
ISO/IEC Guide 51	1999	Safety aspects - Guidelines for their inclusion in standards	-	-
ISO 13943	2008	Fire safety - Vocabulary	EN ISO 13943	2010
ASTM B187	-	Standard Specification for Copper, Bus Bar, Rod, and Shapes and General Purpose Rod, Bar, and Shapes	-	-

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Fire hazard testing –
Part 11-4: Test flames – 50 W flame – Apparatus and confirmational test method

Essais relatifs aux risques du feu –
Partie 11-4: Flammes d'essai – Flamme de 50 W – Appareillage et méthodes d'essai de vérification

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

FIRE HAZARD TESTING –

Part 11-4: Test flames – 50 W flame – Apparatus and confirmational test method

FOREWORD

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International Standard IEC 60695-11-4 has been prepared by IEC technical committee 89: Fire hazard testing.

This first edition of IEC 60695-11-4 cancels and replaces the second edition of technical specification IEC/TS 60695-11-4 published in 2004. It constitutes a technical revision and now has the status of an International Standard.

It 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 the integration of minor editorial and technical changes throughout the text.

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

FDIS	Report on voting
89/1060/FDIS	89/1084/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.

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.

IEC 60695-11 consists of the following parts:

Part 11-2: Test flames – 1 kW nominal pre-mixed flame – Apparatus, confirmatory test arrangement and guidance

Part 11-3: Test flames – 500 W flames – Apparatus and confirmational test methods

Part 11-4: Test flames – 50 W flame – Apparatus and confirmational test method

Part 11-5: Test flames – Needle-flame test method – Apparatus, confirmatory test arrangement and guidance

Part 11-10: Test flames – 50 W horizontal and vertical flame test methods

Part 11-11: Test flames – Determination of the characteristic heat flux for ignition from a non-contacting flame source

Part 11-20: Test flames – 500 W flame test methods

Part 11-30: Test flames – History and development from 1979 to 1999

Part 11-40: Test flames – Confirmatory tests – Guidance

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.

INTRODUCTION

The best method for testing electrotechnical products with regard to fire hazard is to duplicate exactly the conditions occurring in practice. In most instances, this is not possible. Accordingly, for practical reasons, the testing of electrotechnical products with regard to fire hazard is best conducted by simulating as closely as possible the actual effects occurring in practice.

Work initiated by ACOS resulted in a series of standards that make available standardized test flames covering a range of powers for the use of all product committees needing such test flames. A needle flame is described in IEC 60695-11-5, two 500 W flames are described in IEC 60695-11-4, and a 1 kW flame is described in IEC 60695-11-2.

This international standard provides a description of the apparatus required to produce a 50 W test flame and a description of a calibration procedure to check that the test flame produced meets given requirements. Guidance on confirmatory tests for test flames is given in IEC 60695-11-40.

Three 50 W test flame methods (A, B and C) were originally specified in IEC/TS 60695-11-4:2000, with the intention that users would determine a ranking preference. This process has resulted in two of these flame methods being withdrawn, as shown below:

50 W test flame method	Flame type	Gas	Approximate flame height / mm
A	Pre-mixed	Methane	20
B	Withdrawn		
C	Withdrawn		

The method described in Clause 4 of this standard is the method that was originally designated as Method A. It produces a 50 W nominal test flame using a single gas supply tube, a needle valve to adjust the gas back pressure, a flowmeter to adjust the gas flow rate, and adjustable air ports on the burner tube.

The flame is produced by burning methane, and the method makes use of a more tightly specified version of a burner that was used in some countries for many years.

The method has been developed as a technical enhancement of previous technology.