



NSAI
Standards

Irish Standard
I.S. EN 50615:2015

Household and similar electrical appliances -
Safety - Particular requirements for devices
for fire prevention and suppression for
electric hobs (cooktops)

I.S. EN 50615:2015

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English Version

Household and similar electrical appliances - Safety - Particular requirements for devices for fire prevention and suppression for electric hobs (cooktops)

Essais sur les dispositifs de prévention et d'extinction du feu pour les plaques de cuisson (tables de cuisson)

Prüfungen für Vorrichtungen zur Feuervermeidung und Feuerlöschung auf Kochmulden

This European Standard was approved by CENELEC on 2015-01-05. 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.

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Foreword

This document (EN 50615:2015) has been prepared by CLC/TC 61 "Safety of household and similar electrical appliances".

The following dates are fixed:

- latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2016-01-05
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2018-01-05

This document is intended to be used in conjunction with EN 60335-1:2012 and its amendments.

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.

This standard covers the Principle Elements of the Safety Objectives for Electrical Equipment Designed for Use within Certain Voltage Limits (LVD - 2006/95/EC).

Introduction

This European Standard has been prepared to provide a means of conforming to essential safety requirements of the Low Voltage Directive 2006/95/EC. Other requirements and other EU Directives may be applicable to the devices within the scope of this standard.

This European Standard is a product family standard dealing with the safety of devices for fire prevention and suppression for hobs (cooktops).

This European Standard recognizes the level of protection against fire hazards of stationary cooking ranges, hobs and similar appliances.

A device for fire prevention and suppression for hobs (cooktops) that complies with the text of this standard will not necessarily be considered to comply with the safety principles of the standard if, when examined and tested, it is found to have other features that impair the level of safety covered by these requirements.

This European Standard takes into account the requirements of the HD 384 Series as far as possible so that there is compatibility with the wiring rules when the device is connected to the supply mains. However, national wiring rules may differ.

This European Standard applies in conjunction with EN 60335-1:2012 and its amendments, which is referred to in this text as "Part 1". This European Standard supplements or modifies the corresponding clauses of Part 1 as indicated in the text.

Although from evidences available the main cause of problems is fire, also production of dangerous amount of smoke or just smoke, that contains dangerous substances, was considered, but during the development of the standard it was not possible to develop a reproducible test for such detection. This subject is therefore under consideration.

1 Scope

The first sentence in the Scope of EN 60335-1 is replaced by:

This European standard deals with the safety of electric devices used for detection, prevention and suppression of fire originated:

- from a cooking process, or
- from flammable material left on the hob.

NOTE The provisions of this document, duly adapted to the specific installation and conditions of use, may be taken into consideration as guidance also for the protection from fire originated from the use of portable cooking appliances or from grills in the oven cavity.

The devices covered by this European Standard may operate by interaction with, or integration of, other devices such as smoke detectors, fire detectors, motion detectors, CO detectors and fire extinguishers that are covered by their specific applicable standards.

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.

EN 54-3:2001, *Fire detection and fire alarm systems — Part 3: Fire alarm devices — Sounders*

EN 60335-1:2012, *Household and similar electrical appliances — Safety — Part 1: General requirements (IEC 60335-1:2010, modified)*

EN 60335-2-6:2003, *Household and similar electrical appliances — Safety — Part 2-6: Particular requirements for stationary cooking ranges, hobs, ovens and similar appliances (IEC 60335-2-6:2000, modified)*

EN 60335-2-31:2003, *Household and similar electrical appliances — Safety — Part 2-31: Particular requirements for range hoods and other cooking fume extractors (IEC 60335-2-31:2002)*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 60335-1:2012, EN 60335-2-6:2003 and the following apply.

3.1.9 Replacement

The appliance is connected to the supply mains and operated as in normal use. Vessels, without lids, containing water are placed on each **hob element**. The diameter of the vessel is approximately equal to that of the **hob element**. **Hob elements** are operated to maintain simmering.

3.101 Categories of fire protection devices

3.101.1 Category A

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