



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

Incorporating amendments/corrigenda/National Annexes issued since publication:

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

I.S. xxx: Irish Standard — national specification based on the consensus of an expert panel and subject to public consultation.

S.R. xxx: Standard Recommendation — recommendation based on the consensus of an expert panel and subject to public consultation.

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

This document replaces/revises/consolidates the NSAI adoption of the document(s) indicated on the CEN/CENELEC cover/Foreword and the following National document(s):

NOTE: The date of any NSAI previous adoption may not match the date of its original CEN/CENELEC document.

This document is based on:

EN 50615:2015

Published:

2015-03-06

*This document was published
under the authority of the NSAI
and comes into effect on:*

2015-03-24

ICS number:

NOTE: If blank see CEN/CENELEC cover page

NSAI
1 Swift Square,
Northwood, Santry
Dublin 9

T +353 1 807 3800
F +353 1 807 3838
E standards@nsai.ie
W NSAI.ie

Sales:
T +353 1 857 6730
F +353 1 857 6729
W standards.ie

Údarás um Chaighdeáin Náisiúnta na hÉireann

EUROPEAN STANDARD

EN 50615

NORME EUROPÉENNE

EUROPÄISCHE NORM

March 2015

ICS 97.040.20

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.

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.



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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

Contents

Foreword	4
Introduction.....	5
1 Scope.....	6
2 Normative references.....	6
3 Terms and definitions	6
4 General requirement	7
5 General conditions for the tests	7
6 Classification	7
7 Marking and instructions	7
8 Protection against access to live parts.....	8
9 Starting of motor-operated appliances	8
10 Power input and current	8
11 Heating.....	8
12 Void	14
13 Leakage current and electric strength at operating temperature.....	14
14 Transient overvoltages	14
15 Moisture resistance	15
16 Leakage current and electric strength	15
17 Overload protection of transformers and associated circuits.....	15
18 Endurance	15
19 Abnormal operation.....	15
20 Stability and mechanical hazards	15
21 Mechanical strength	15
22 Construction	15
23 Internal wiring	17
24 Components	17
25 Supply connection and external flexible cords.....	17
26 Terminals for external conductors	17

27	Provision for earthing	17
28	Screws and connections	17
29	Clearances, creepage distances and solid insulation	17
30	Resistance to heat and fire	17
31	Resistance to rusting	18
32	Radiation, toxicity and similar hazards	18

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

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

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

-
- Looking for additional Standards? Visit Intertek Inform Infostore
 - Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation
-