



NSAI
Standards

Irish Standard
I.S. EN 50304:2009

Electric cooking ranges, hobs, ovens
and grills for household use - Methods
for measuring performance (IEC
60350:1999 (MOD) + A1:2005 (MOD) +
A2:2008 (MOD))

I.S. EN 50304:2009

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<i>This document replaces:</i> EN 50304:2001	<i>This document is based on:</i> EN 50304:2009 EN 50304:2001	<i>Published:</i> 31 March, 2009 14 May, 2001
This document was published under the authority of the NSAI and comes into effect on: 9 July, 2009		ICS number: 97.040.20
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Údarás um Chaighdeáin Náisiúnta na hÉireann		

English version

**Electric cooking ranges, hobs, ovens and grills for household use -
Methods for measuring performance**
(IEC 60350:1999 + A1:2005 + A2:2008, modified)

Cuisinières, foyers de cuisson, fours
électriques et grils à usage domestique -
Méthodes de mesure de l'aptitude à la
fonction
(CEI 60350:1999 + A1:2005 + A2:2008,
modifiée)

Elektrische Herde, Kochmulden, Backöfen
und Grillgeräte für den Hausgebrauch -
Verfahren zur Messung der
Gebrauchseigenschaften
(IEC 60350:1999 + A1:2005 + A2:2008,
modifiziert)

This European Standard was approved by CENELEC on 2008-12-01. 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 Central Secretariat 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 Central Secretariat has the same status as the official versions.

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

CENELEC

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

Central Secretariat: avenue Marnix 17, B - 1000 Brussels

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Foreword

This European Standard was prepared by the Technical Committee CENELEC TC 59X, Consumer information related to household electrical appliances.

A first draft, based on IEC 60350:1999 + A1:2005, with common modifications prepared by CENELEC TC 59X, was submitted to the Unique Acceptance Procedure.

The text of document 59K/161/FDIS, future amendment A2 to IEC 60350:1999, was submitted the IEC-CENELEC parallel vote procedure. A further draft amendment (prAA), covering the common modifications requested by the National Committees during the parallel vote on IEC 60350:1999/A2 (59K/161/FDIS), was submitted to the formal vote.

The combined texts were approved by CENELEC on 2008-12-01 for publication as a consolidated edition of the double-numbered European Standard EN 50304/EN 60350, consisting of IEC 60350:1999 + A1:2005 + A2:2008 + common modifications + the text of EN 50304:2001.

This European Standard supersedes EN 50304:2001 (+ corrigendum March 2002) and EN 60350:1999 (+ corrigendum February 2000).

The following dates were fixed:

- latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2009-12-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2009-12-01

According to the decision of CLC/TC 59X, taken at the meeting in Brussels in January 2006, this European Standard has been drawn up as a document which follows, as far as suitable, the structure of IEC 60350:1999 + A1:2005 + A2:2008.

In this European Standard the common modifications to the International Standard are indicated by a vertical line in the left margin of the text.

This European Standard has been prepared under Mandate M/203 given to CEN and CENELEC by the European Commission.

This European Standard is suitable for direct comparison and is considered sufficiently reproducible within given limits for the purpose of energy labelling according to the Commission Directive 92/75/EEC on "Indication by labelling and standard product information of the consumption of energy and other resources by household appliances". All paragraphs which are relevant for the measuring of energy labelling are listed in Annex ZA.

This European Standard also defines permitted tolerances to values declared by the manufacturer and control procedures for checking these values.

Words in **bold** in the text are defined in Clause 3.

Clauses, subclauses, notes, tables, figures and annexes which are additional to those in IEC 60350:1999 are prefixed "Z".

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1 Scope

This European Standard defines methods for measuring the performance of electric **cooking ranges, hobs, ovens** and **grills** for household use.

NOTE 1 Appliances covered by this standard may be built-in or for placing on a working surface or the floor.

NOTE 2 This standard does not apply to

- microwave **ovens** (EN 60705),
- portable appliances for cooking, grilling and similar functions (EN 61817).

This standard defines the main performance characteristics of these appliances which are of interest to the user and specifies methods for measuring these characteristics.

NOTE 3 Some of the tests which are specified in this standard are not considered to be reproducible since the results may vary between laboratories. They are therefore intended for comparative testing purposes only.

This standard does not specify requirements for performance.

NOTE 4 This standard does not deal with safety requirements (EN 60335-2-6 and EN 60335-2-9).

NOTE 5 For measurement of energy consumption and time for heating a load (see 8.3), this standard is furthermore not applicable to:

- microwave combination **ovens**;
- **small cavity ovens**;
- **ovens** without adjustable temperature control;
- heating functions other than defined in 3.16 to 3.18.

2 Normative references

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.

EN 60584-2:1993, *Thermocouples – Part 2: Tolerances* (IEC 60584-2:1982 + A1:1989)

EN 62301:2005, Household electrical appliances – Measurement of standby power (IEC 62301:2005, mod.)

ISO 7724-1:1984, *Paints and varnishes – Colorimetry – Part 1: Principles*

ISO 7724-2:1984, *Paints and varnishes – Colorimetry – Part 2: Colour measurement*

ISO 7724-3:1984, *Paints and varnishes – Colorimetry – Part 3: Calculation of colour differences*

ISO/CIE 10526:1991, *CIE standard colorimetric illuminants*

ISO/CIE 10527:1991, *CIE standard colorimetric observers*

CIE 15.2:1986, *Colorimetry*

3 Definitions

For the purposes of this document the following definitions apply.

3.1

cooking range

appliance having a **hob** and at least one **oven**. It may incorporate a **grill**

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