

Irish Standard I.S. EN 50559:2013&A1:2020

Electric room heating, underfloor heating, characteristics of performance - Definitions, method of testing, sizing and formula symbols

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I.S. EN 50559:2013&A1:2020

Incorporating amendments/corrigenda/National Annexes issued since publication:

EN 50559:2013/A1:2020

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This document is based on:

Published:

EN 50559:2013

2013-05-03

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

ICS number:

2020-05-11

Northwood, Santry

Dublin 9

97.100.10

NOTE: If blank see CEN/CENELEC cover page

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National Foreword

I.S. EN 50559:2013&A1:2020 is the adopted Irish version of the European Document EN 50559:2013, Electric room heating, underfloor heating, characteristics of performance - Definitions, method of testing, sizing and formula symbols

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EUROPEAN STANDARD

EN 50559:2013/A1

NORME EUROPÉENNE

EUROPÄISCHE NORM

April 2020

ICS 97.100.10

English Version

Electric room heating, underfloor heating, characteristic of performance - Definitions, method of testing, sizing and formula symbols

Chauffage électrique de locaux, chauffage par le sol, caractéristiques de performance - Définitions, méthode d'essai, calibrage et symboles de formule Elektrische Raumheizung, Fußbodenheizung, Charakteristika der Gebrauchstauglichkeit - Definitionen, Testmethoden, Dimensionierung und Formelsymbole

This amendment A1 modifies the European Standard EN 50559:2013; it was approved by CENELEC on 2020-03-18. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment 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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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EN 50559:2013/A1:2020 (E)

European foreword

This document (EN 50559:2013/A1:2020) has been prepared by CLC/TC 59X "Performance 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)	2021-03-18
_	latest data by which the national	(dow)	2022 02 10

 latest date by which the national (dow) 2023-03-18 standards conflicting with this document have to be withdrawn

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This document has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive 2015/1188.

For the relationship with EU Directive 2015/1188 see informative Annex ZZ, which is an integral part of this document.

EUROPEAN STANDARD

EN 50559

NORME EUROPÉENNE

EUROPÄISCHE NORM

May 2013

ICS 97.100.10

English version

Electric room heating, underfloor heating, characteristics of performance - Definitions, method of testing, sizing and formula symbols

Chauffage électrique de locaux -Chauffage par le sol -Caractéristiques de performance -Définitions, méthode d'essai, calibrage et symboles de formule Elektrische Raumheizung, Fußbodenheizung, Charakteristika der Gebrauchstauglichkeit -Definitionen, Testmethoden, Dimensionierung und Formelsymbole

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

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Foreword

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The following dates are fixed:

•	latest date by which this document has	(dop)	2013-12-24
	to be implemented at national level by		
	publication of an identical national		
	standard or by endorsement		
•	latest date by which the national	(dow)	2015-12-24
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EN 50559:2013 (E)

Introduction

No draft of this present preliminary standard has been published.

A preliminary standard is the result of standardisation work which, due to certain reservations about the contents or due to a compilation process deviating from a standard, has not yet been published by DIN.

The national working body UK 513.4 "Raumheizgeräte" (Room Heating) of the DKE Deutsche Kommission Elektrotechnik Elektronik Informationstechnik im DIN und VDE (http://www.dke.de) is responsible for this preliminary standard.

In cases of a dated reference in the normative text, the reference is always applied to the issue being referred to.

The correlation between the quoted standard and the relevant German Standard is given in so far as a correlation exists, fundamentally by means of the number of the relevant IEC-Publication.

Example: IEC 60068 has been taken over by CENELEC as EN 60068, and incorporated into the German Standards as DIN EN 60068.

1 Scope

This European Standard applies to electrical underfloor heating of dwellings and all other buildings whose use corresponds to dwellings or is at least similar, having a maximum load bearing in use of 4 kN/m².

This European Standard defines the main characteristics of electrical underfloor heating and establishes the method of testing of these characteristics as information for the user.

This European Standard does not deal with:

- installation and safety requirements;
- DIN VDE 0100-723.

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 1264-1, Water based surface embedded heating and cooling systems — Part 1: Definitions and symbols

EN 1264-2, Water based surface embedded heating and cooling systems — Part 2: Floor heating: Prove methods for the determination of the thermal output using calculation and test methods

EN 1264-3, Water based surface embedded heating and cooling systems — Part 3: Dimensioning

EN 1264-4, Water based surface embedded heating and cooling systems — Part 4: Installation

EN 1264-5, Water based surface embedded heating and cooling systems — Part 5: Heating and cooling surfaces embedded in floors, ceilings and walls — Determination of the thermal output

EN 12831, Heating systems in buildings — Method for calculation of the design heat load

EN 60335-2-96, Household and similar electrical appliances — Safety — Part 2-96: Particular requirements for flexible sheet heating elements for room heating (IEC 60335-2-96)

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1

electrical underfloor heating system

electrical underfloor heating, the switching, control and regulation appliances and the electrical installation

3.1.1

underfloor heating

in situ flooring constructed as a heating system

Note 1 to entry: It is generally laid on a dry, level, load-bearing substructure.

3.1.2

underfloor direct heating

underfloor direct heating, by which the heat generated from electrical energy is transferred with the least possible time lag to the room to be heated mainly via the surface of the floor

Note 1 to entry: There is no restriction on the amount of time electrical energy can be converted into heat.



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