



**NSAI**  
Standards

Irish Standard  
I.S. EN 50571:2013&A1:2018

# Household and similar electrical appliances - Safety - Particular requirements for commercial electric washing machines

**I.S. EN 50571:2013&A1:2018**

*Incorporating amendments/corrigenda/National Annexes issued since publication:*

EN 50571:2013/A1:2018

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 50571:2013

*Published:*

2013-11-22

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

2018-01-30

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

## National Foreword

I.S. EN 50571:2013&A1:2018 is the adopted Irish version of the European Document EN 50571:2013, Household and similar electrical appliances - Safety - Particular requirements for commercial electric washing machines

This document does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

**Compliance with this document does not of itself confer immunity from legal obligations.**

*In line with international standards practice the decimal point is shown as a comma (,) throughout this document.*

This page is intentionally left blank

EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 50571:2013/A1**

January 2018

ICS 97.060

English Version

## Household and similar electrical appliances - Safety - Particular requirements for commercial electric washing machines

Appareils électrodomestiques et analogues - Sécurité -  
Règles particulières pour les machines à laver le linge à  
usage collectif

Sicherheit elektrischer Geräte für den Hausgebrauch und  
ähnliche Zwecke - Besondere Anforderungen für elektrische  
Waschmaschinen für den gewerblichen Gebrauch

This amendment A1 modifies the European Standard EN 50571:2013; it was approved by CENELEC on 2017-06-26. 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.

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 amendment 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, Serbia, 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: Rue de la Science 23, B-1040 Brussels**

## **EN 50571:2013/A1:2018**

### **European foreword**

This document (EN 50571:2013/A1:2018) 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) 2018-07-12  
implemented at national level by publication  
of an identical national standard or by  
endorsement
- latest date by which the national standards (dow) 2021-01-12  
conflicting with this document have to  
be withdrawn

This amendment supplements or modifies the corresponding clauses of EN 60335-1:2012 including its amendments and EN 50571:2013.

EN 50571:2013/A1:2018 is to be read in conjunction with EN 60335-1:2012 and A11:2014, A12:2017, A13:2017, A1:201X, A14:201X, which is referred to in this text as "Part 1".

NOTE The following numbering system is used:

- subclauses, tables and figures that are numbered starting from 101 are additional to those in Part 1;
- unless notes are in a new subclause or involve notes in Part 1, they are numbered starting from 101, including those in a replaced clause or subclause;
- additional annexes are lettered AA, BB, etc.

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.

For the relationship with EU Directive see informative Annex ZZ, included in EN 50571:2013.

EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 50571**

November 2013

ICS 97.060

English version

**Household and similar electrical appliances -  
Safety -  
Particular requirements for commercial electric washing machines**

Appareils électrodomestiques et  
analogues -  
Sécurité -  
Règles particulières pour les machines à  
laver le linge à usage collectif

Sicherheit elektrischer Geräte für den  
Hausgebrauch und ähnliche Zwecke -  
Besondere Anforderungen für elektrische  
Waschmaschinen für den gewerblichen  
Gebrauch

This European Standard was approved by CENELEC on 2013-06-10. 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.

**CENELEC**

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

	Page
<b>Foreword .....</b>	<b>4</b>
<b>Introduction .....</b>	<b>5</b>
<b>1 Scope .....</b>	<b>6</b>
<b>2 Normative references .....</b>	<b>7</b>
<b>3 Terms and definitions .....</b>	<b>7</b>
<b>4 General requirement .....</b>	<b>9</b>
<b>5 General conditions for the tests .....</b>	<b>9</b>
<b>6 Classification .....</b>	<b>9</b>
<b>7 Marking and instructions .....</b>	<b>9</b>
<b>8 Protection against access to live parts .....</b>	<b>11</b>
<b>9 Starting of motor-operated appliances .....</b>	<b>12</b>
<b>10 Power input and current .....</b>	<b>12</b>
<b>11 Heating .....</b>	<b>12</b>
<b>12 Void .....</b>	<b>14</b>
<b>13 Leakage current and electric strength at operating temperature .....</b>	<b>14</b>
<b>14 Transient overvoltages .....</b>	<b>14</b>
<b>15 Moisture resistance .....</b>	<b>14</b>
<b>16 Leakage current and electric strength .....</b>	<b>15</b>
<b>17 Overload protection of transformers and associated circuits .....</b>	<b>15</b>
<b>18 Endurance .....</b>	<b>15</b>
<b>19 Abnormal operation .....</b>	<b>16</b>
<b>20 Stability and mechanical hazards .....</b>	<b>17</b>
<b>21 Mechanical strength .....</b>	<b>19</b>
<b>22 Construction .....</b>	<b>20</b>
<b>23 Internal wiring .....</b>	<b>22</b>
<b>24 Components .....</b>	<b>23</b>
<b>25 Supply connection and external flexible cords .....</b>	<b>23</b>
<b>26 Terminals for external conductors .....</b>	<b>23</b>
<b>27 Provision for earthing .....</b>	<b>23</b>
<b>28 Screws and connections .....</b>	<b>23</b>
<b>29 Clearances, creepage distances and solid insulation .....</b>	<b>23</b>
<b>30 Resistance to heat and fire .....</b>	<b>23</b>
<b>31 Resistance to rusting .....</b>	<b>24</b>
<b>32 Radiation, toxicity and similar hazards .....</b>	<b>24</b>
<b>Annex AA (normative) Detergent and rinsing agent .....</b>	<b>26</b>
<b>Annex BB (normative) Ageing test for elastomeric parts .....</b>	<b>27</b>
<b>Annex CC (normative) Emission of acoustical noise .....</b>	<b>28</b>
<b>Annex ZE (informative) Specific additional requirements for appliances and machines intended for commercial use .....</b>	<b>31</b>



<b>Annex ZZ (informative) Coverage of Essential Requirements of EU Directives.....</b>	<b>32</b>
<b>Bibliography .....</b>	<b>33</b>
 <b>Figure</b>	
<b>Figure 101 — Probe for measuring surface temperatures .....</b>	<b>24</b>
 <b>Tables</b>	
<b>Table 3 — Maximum normal temperature rises.....</b>	<b>14</b>
<b>Table AA.1 — Composition of the detergent .....</b>	<b>26</b>
<b>Table AA.2 — Rinsing agent.....</b>	<b>26</b>

## Foreword

This document (EN 50571:2013) 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 (dop) 2014-06-10  
at national level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with (dow) 2016-06-10  
this document have to be withdrawn

EN 50571:2013 is to be read in conjunction with EN 60335-1:2012 and its amendments, which is referred to in this text as "Part 1". This standard supplements or modifies the corresponding clauses of Part 1 as indicated in the text.

NOTE The following numbering system is used:

- subclauses, tables and figures that are numbered starting from 101 are additional to those in Part 1;
- unless notes are in a new subclause or involve notes in Part 1, they are numbered starting from 101, including those in a replaced clause or subclause;
- additional annexes are lettered AA, BB, etc.

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(s).

For the relationship with EU Directive(s) see informative Annex ZZ, which is an integral part of this document.

---

## Introduction

This European Standard has been prepared to provide a means of conforming to essential safety requirements of the Machinery Directive 2006/42/EC. Other requirements and other EU Directives may be applicable to the machines within the scope of this standard.

This standard is a product family standard dealing with the safety of commercial electric **washing machines** and takes precedence over horizontal and generic standards covering the same subject.

This standard recognises the level of protection against hazards such as electrical, mechanical, thermal, fire and radiation of commercial electric **washing machines** when operated as in normal use taking into account the manufacturer's instructions. It also covers any reasonably foreseeable misuse of the machinery and takes into account the way in which electromagnetic phenomena can affect the safe operation of commercial electric **washing machines**.

A commercial electric **washing machine** 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 standard takes into account the requirements of HD 60364-1 as far as possible so that there is compatibility with the wiring rules when the machinery is connected to the supply mains. However, national wiring rules may differ.

## 1 Scope

This clause of Part 1 is replaced by the following:

This European Standard deals with the safety of electrical operated **washing machines** intended to be used by trained users in e.g. hotels, hospitals, factories, in light industry and on farms. It also covers **washing machines** declared for commercial use in **public areas** and operated by lay persons e.g. in laundrettes, communal laundry rooms. Their rated voltage being not more than 250 V for single phase and 480 V for others.

This standard also covers **washing machines** making use of other energy sources. It does not cover requirements for these other energy sources or compressed air. However the influence of these other energy sources on the machines is covered.

These **washing machines** are designed to be connected to hot and/or cold water supply.

**Washing machines** making use of steam or hot water for heating purposes are also within the scope of this standard.

This standard deals with the common hazards presented by **washing machines** that are encountered by all persons. However, in general, it does not take into account:

- a) persons (including children) whose:
  - 1) physical, sensory or mental capabilities, or
  - 2) lack of experience and knowledge,  
prevents them from using the **washing machine** safely without supervision or instruction;
- b) children playing with the **washing machine**.

Attention is drawn to the fact that:

- for commercial electric **washing machines** intended to be used in vehicles or on board ships or aircraft, additional requirements may be necessary,
- in many countries additional requirements are specified by the national health authorities, the national authorities responsible for the protection of labour, the national water supply authorities and similar authorities,
- for commercial electric **washing machines** having a drying function, EN 50570 (commercial electric tumble dryers) is also applicable.

This European Standard does not apply to:

- c) industrial laundry machinery (EN ISO 10472-2),
- d) **washing machines** intended to be used in locations where special conditions prevail, such as the presence of a corrosive or explosive atmosphere (dust, vapour or gas).

For the purpose of this standard, the term “appliance” is to be read as “**washing machine** intended for commercial use.

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
-