



**NSAI**  
Standards

Irish Standard  
I.S. EN 16361:2013+A1:2016

Power operated pedestrian doors - Product standard, performance characteristics - Pedestrian doorsets, other than swing type, initially designed for installation with power operation without resistance to fire and smoke leakage characteristics

**I.S. EN 16361:2013+A1:2016**

*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 16361:2013+A1:2016

*Published:*

2016-07-13

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

2016-07-31

ICS number:

91.060.50

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 16361:2013+A1:2016 is the adopted Irish version of the European Document EN 16361:2013+A1:2016, Power operated pedestrian doors - Product standard, performance characteristics - Pedestrian doorsets, other than swing type, initially designed for installation with power operation without resistance to fire and smoke leakage characteristics

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 16361:2013+A1**

July 2016

ICS 91.060.50

Supersedes EN 16361:2013

English Version

**Power operated pedestrian doors - Product standard,  
performance characteristics - Pedestrian doorsets, other  
than swing type, initially designed for installation with  
power operation**

Portes motorisées pour piétons - Norme de produit,  
caractéristiques de performance - Blocs-portes pour  
piétons, autres que de type battant, initialement conçus  
pour une installation avec un système de motorisation

Kraftbetätigte Türen - Produktnorm,  
Leistungseigenschaften - Türsysteme, mit Ausnahme  
von Drehflügeltüren, vorgesehen für den  
kraftbetätigten Betrieb

This European Standard was approved by CEN on 26 July 2013 and includes Amendment 1 approved by CEN on 4 April 2016.

CEN 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 CEN 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 CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION  
COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

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

## Contents

Page

European foreword.....	4
<b>1 Scope .....</b>	<b>5</b>
<b>2 Normative references .....</b>	<b>6</b>
<b>3 Terms and definitions .....</b>	<b>7</b>
<b>4 Requirements .....</b>	<b>7</b>
4.1 General.....	7
4.2 Rate of release of dangerous substances (only for indoor impact) .....	8
4.3 Impact resistance (only for glazed doors with injury risks) .....	8
4.4 Height .....	8
4.5 Direct airborne sound insulation index (only for uses where acoustic performance is declared) .....	8
4.6 Impact forces (safety in use) .....	8
4.7 Water tightness (only for external doors) .....	9
4.8 Resistance to wind load (only for external doors).....	9
4.9 Thermal transmittance (only for external doors and for internal doors where the thermal insulation is declared).....	10
4.10 Air permeability (only for external doors and for internal doors where thermal insulation is declared).....	10
4.11 $\left[ A_1 \right]$ Radiation properties $\left[ A_1 \right]$ .....	12
4.12 Durability .....	12
4.12.1 General.....	12
4.12.2 Durability .....	13
4.13 Electromagnetic compatibility (EMC).....	13
4.14 Other requirements .....	13
4.14.1 Glazing.....	13
4.14.2 Unframed glass doorsets .....	13
4.14.3 Doorsets in escape routes and emergency exits.....	13
4.14.4 Burglar resistance.....	14
<b>5 Testing, assessment and sampling methods .....</b>	<b>14</b>
5.1 General.....	14
5.2 Rate of release of dangerous substances (only for indoor impact) .....	14
5.3 Impact resistance (only for glazed doors with injury risks) .....	14
5.4 Height .....	14
5.5 Direct airborne sound insulation index (only for uses where acoustic performance is declared) .....	14
5.6 Impact forces (safety in use) .....	14
5.7 Water tightness (only for external doors) .....	14
5.8 Resistance to wind load (only for external doors).....	14
5.9 Thermal transmittance (only for external doors and for internal doors where thermal insulation is declared).....	14
5.10 Air permeability (only for external doors and for internal doors where thermal insulation is declared).....	15
5.11 $\left[ A_1 \right]$ Radiation properties $\left[ A_1 \right]$ .....	15
5.12 Durability .....	15
5.13 Electromagnetic compatibility (EMC).....	15
5.13.1 Verification.....	15
5.13.2 Test for electromagnetic emissions .....	15

5.13.3	Tests for immunity to disturbances.....	15
6	<b>Assessment and verification of constancy of performance – AVCP .....</b>	<b>15</b>
6.1	General .....	15
6.2	Type testing .....	16
6.2.1	General .....	16
6.2.2	Test samples, testing and compliance criteria.....	16
6.2.3	Test reports .....	17
6.2.4	Shared other party results .....	17
6.2.5	Cascading determination of the product type results .....	18
6.3	Factory production control (FPC).....	19
6.3.1	General .....	19
6.3.2	Requirements.....	20
6.3.3	Product specific requirements .....	22
6.3.4	Initial inspection of factory and of FPC.....	23
6.3.5	Continuous surveillance of FPC for products covered by AVCP system 1 .....	23
6.3.6	Procedure for modifications.....	24
6.3.7	One-off products, pre-production products (e.g. prototypes) and products produced in very low quantity <b>A1</b> .....	24
Annex A	(normative) Standards and draft standards on glass .....	25
Annex B	(informative) Summary of the characteristics .....	26
B.1	Summary of the characteristics of power operated pedestrian doorsets, other than swing type, initially designed for installation with power operation without resistance to fire and smoke leakage characteristics .....	26
Annex C	(informative) Handling, installation, maintenance and care .....	28
Annex D	(informative) Summary of classification of characteristics .....	29
Annex E	(informative) <b>A1</b> Example of air permeability calculation <b>A1</b> .....	34
Annex ZA	(informative) <b>A1</b> Relationship of this European Standard with Regulation (EU) No. 305/2011 <b>A1</b> .....	36
Annex ZB	(informative) Relationship between this European Standard and the Essential Requirements of the EMC Directive .....	42
Bibliography	.....	43

## **EN 16361:2013+A1:2016 (E)**

### **European foreword**

This document (EN 16361:2013+A1:2016) has been prepared by Technical Committee CEN/TC 33 “Doors, windows, shutters, building hardware and curtain walling”, the secretariat of which is held by AFNOR.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by January 2017, and conflicting national standards shall be withdrawn at the latest by April 2018.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document includes Amendment 1 approved by CEN on 4 April 2016.

This document supersedes EN 16361:2013.

The start and finish of text introduced or altered by amendment is indicated in the text by tags **[A1]** **[A1]**.

**[A1]** This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive 2014/30/EU and Regulation (EU) 305/2011.

For relationship with EU Directive 2014/30/EU and Regulation (EU) 305/2011, see informative Annexes ZA and ZB, which are an integral part of this document. **[A1]**

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

## 1 Scope

This European Standard specifies requirements and test/assessment/calculation methods for external and internal power operated pedestrian doorsets, other than swing type, initially designed for installation with power operation A1 *deleted text* A1.

Such doorset constructions may be operated electro-mechanically, electro-hydraulically or pneumatically.

These doorsets include power operated pedestrian sliding doorsets, revolving doorsets, balanced (sliding/swing) doorsets and folding doorsets with one or more horizontally moving leaves.

This European Standard applies to power operated pedestrian doorsets with flush or panelled leaves, complete with:

- integral fanlights, if any;

NOTE 1 A fanlight is a panel over a door which is part of the doorset.

- side panels that are contained within a single frame for inclusion in a single aperture, if any.

The intended uses of the products covered by this European Standard are:

- doorsets for external use in escape routes and other declared specific uses and/or uses subject to other specific requirements, in particular noise, energy, tightness and safety-in-use in construction works;
- doorsets for internal use in escape routes, communication and other declared specific uses and/or uses subject to other specific requirements, in particular noise and safety-in-use in construction works;
- doorsets for internal use in escape routes, communication and other declared specific uses and/or uses subject to other specific requirements, in particular noise, energy and safety-in-use in construction works.

The products covered by this European Standard are not assessed for structural applications of the building.

This European Standard does not cover operation in environments where the electromagnetic disturbances are outside the range of those specified in EN 61000-6-2.

This European Standard does not apply to:

- external pedestrian doorsets according to EN 14351-1;
- internal pedestrian doorsets according to prEN 14351-2;

A1

- fire resistance and/or smoke control characteristics according to EN 16034; A1

A1 *deleted text* A1

- lifts doorsets;
- vehicles doorsets;
- doorsets used in industrial processes;
- doorsets in partition walls;

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
-