



NSAI
Standards

Irish Standard
I.S. EN 13561:2015&AC:2016

External blinds and awnings - Performance requirements including safety

I.S. EN 13561:2015&AC:2016

Incorporating amendments/corrigenda/National Annexes issued since publication:

EN 13561:2015/AC:2016

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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):

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Údarás um Chaighdeáin Náisiúnta na hÉireann

National Foreword

I.S. EN 13561:2015&AC:2016 is the adopted Irish version of the European Document EN 13561:2015, External blinds and awnings - Performance requirements including safety

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

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

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EUROPEAN STANDARD

EN 13561:2015/AC

NORME EUROPÉENNE

March 2016

EUROPÄISCHE NORM

Mars 2016

März 2016

ICS 91.060.50

English version
Version Française
Deutsche Fassung

External blinds and awnings - Performance requirements including safety

Stores extérieurs - Exigences de
performance, y compris la sécurité

Markisen - Leistungs- und
Sicherheitsanforderungen

This corrigendum becomes effective on 31 March 2016 for incorporation in the three official language versions of the EN.

Ce corrigendum prendra effet le 31 mars 2016 pour incorporation dans les trois versions linguistiques officielles de la EN.

Die Berichtigung tritt am 31. März 2016 zur Einarbeitung in die drei offiziellen Sprachfassungen der EN in Kraft.



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

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

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EN 13561:2015/AC:2016 (E)

1 Modification to 4.1 Resistance to wind loads

Replace

"Table 1 — Classes of wind resistance

Classes	0	1	2	3	4	5	6
Nominal wind pressure p_N (N/m ²)	< 40	40	70	110	170	270	400
Safety wind pressure p_S (N/m ²)	< 48	48	84	132	204	234	480

"

with

"Table 1 — Classes of wind resistance

Classes	0	1	2	3	4	5	6
Nominal wind pressure p_N (N/m ²)	< 40	40	70	110	170	270	400
Safety wind pressure p_S (N/m ²)	< 48	48	84	132	204	324	480

"

EUROPEAN STANDARD

EN 13561

NORME EUROPÉENNE

EUROPÄISCHE NORM

May 2015

ICS 91.060.50

Supersedes EN 13561:2004+A1:2008

English Version

External blinds and awnings - Performance requirements including safety

Stores extérieurs - Exigences de performance, y compris la
sécurité

Markisen - Leistungs- und Sicherheitsanforderungen

This European Standard was approved by CEN on 15 February 2015.

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.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
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CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

Contents

Page

Foreword.....	4
Introduction	6
1 Scope	7
2 Normative references	7
3 Terms and definitions	8
4 Product characteristics	10
4.1 Resistance to wind loads	10
4.2 Resistance of non retractable elements to pressure loads	10
4.3 Resistance to snow load (non retractable external blinds only)	11
4.4 Resistance to water pocket	11
4.4.1 General.....	11
4.4.2 Determination of performance	11
4.4.3 Performance requirement	11
4.4.4 Performance classes	12
4.5 Operating effort.....	12
4.5.1 General.....	12
4.5.2 Determination of performance	12
4.5.3 Performance requirement and operating effort classes.....	12
4.6 Operating mechanism — Diagrams HPV (“Human Pull Value”).....	13
4.6.1 General.....	13
4.6.2 Performances requirements	13
4.7 Resistance in case of misuse.....	15
4.7.1 Curtain and laths.....	15
4.7.2 Determination of performance	17
4.7.3 Performance requirement	17
4.8 Mechanical endurance (repeated operation cycles)	17
4.8.1 General.....	17
4.8.2 Determination of performance	18
4.8.3 Performance requirement	18
4.8.4 Classes of endurance.....	19
4.9 Operation in frosty conditions	19
4.10 Safety in use.....	19
4.10.1 General.....	19
4.10.2 Falling of persons	19
4.10.3 Protection from potentially harmful parts	20
4.10.4 Guided power operated external blinds — Injurious contacts in operation.....	20
4.10.5 Electric hazards	22
4.11 Additional thermal resistance ΔR	23
4.12 Total solar energy transmittance g_{tot}	23
4.13 Light transmittance characteristics	23
4.13.1 General.....	23
4.13.2 Determination of performance	23
4.13.3 Performance requirement	23
4.14 Materials	24
4.14.1 General.....	24
4.14.2 Fabrics	24
4.14.3 Metals.....	27
4.15 Dimensional tolerances	27

4.15.1	General	27
4.15.2	Determination of performance	27
4.15.3	Performance requirement.....	27
4.16	Bullet resistance	28
5	Handling and storage	28
5.1	General	28
5.2	Determination of performance	28
5.3	Performance requirement.....	28
6	Information for use	29
6.1	General	29
6.2	Signal and warning devices	29
6.3	Accompanying documents (in particular the instruction handbook)	29
6.3.1	General	29
6.3.2	Instructions for handling, unpacking and installation	29
6.3.3	Instructions for use and maintenance	30
6.4	Marking.....	31
7	Assessment and verification of constancy of performance - AVCP	31
7.1	General	31
7.2	Type Testing.....	31
7.2.1	General	31
7.2.2	Test samples, testing and compliance criteria.....	32
7.2.3	Test reports	32
7.2.4	Shared other party results.....	32
7.2.5	Cascading determination of the product type results	33
7.3	Factory Production Control (FPC)	34
7.3.1	General	34
7.3.2	Requirements.....	35
7.3.3	Product specific requirements.....	37
7.3.4	Procedure for modifications.....	37
7.3.5	One-off products, pre-production products (e.g. prototypes).....	38
8	Marking.....	38
Annex A (normative)	Fabrics — Determination of the elongation of external blinds fabrics under a static load – Test method	40
Annex B (normative)	List of significant machine hazards	47
Annex C (informative)	Example of calculation for the wind resistance determination on fixed parts of external blinds in retracted position	48
Annex ZA (informative)	Clauses of this European Standard addressing the provisions of EU Construction Products Regulation	49
Annex ZB (informative)	Relationship between this European Standard and the Essential Requirements of EU Directive 2006/42/EC	55
Bibliography.....		56

EN 13561:2015 (E)

Foreword

This document (EN 13561:2015) 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 November 2015 and conflicting national standards shall be withdrawn at the latest by February 2017.

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 supersedes EN 13561:2004+A1:2008.

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(s).

For relationship with EU Directive(s), see informative Annex ZA and Annex ZB, which are integral parts of this document.

This European Standard is a part of a series of standards dealing with blinds and shutters for buildings as defined in EN 12216.

The major modifications to the previous edition are:

- the scope has been modified to integrate Pergola awnings;
- 4.1 “Resistance to wind loads” has been modified and has been aligned with the revised version of EN 1932 “Test methods”;
- 4.2 “Resistance of non retractable elements to pressure loads” has been added to integrate requirements on external blinds and awnings in the retracted position;
- 4.6 “Operating mechanism - Diagrams HPV (“Human Pull Value”)”, the use of the HPV diagram has been clarified;
- 4.11 “Additional thermal resistance ΔR ” has been clarified;
- 4.12 “Total solar energy transmittance g_{tot} ” has been added;
- 4.14 “Materials”, the part related to fabrics has been reviewed completely and EN ISO 105-B04 and EN 12280-2 have been integrated. Requirements for metals have been clarified;
- Clause 7 “Assessment and verification of constancy of performance - AVCP” has been aligned with the European template;
- Annex B “List of significant machine hazards” has been modified and EN ISO 12100 has been introduced;
- Annex C “Example of calculation for the wind resistance determination on fixed parts of external blinds in retracted position” has been added;
- Annex ZA has been modified to introduce a new mandated characteristic: the total solar energy transmittance g_{tot} and revised in accordance with requirements of the CPR.

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.

EN 13561:2015 (E)

Introduction

This document is a type C standard as stated in EN ISO 12100.

The machinery concerned, i.e. power operated products, and the extent to which hazards, hazardous situations and hazardous events are covered are indicated in the scope of this document.

When provisions of this type C standard are different from those which are stated in type A or B standards, the provisions of this type C standard take precedence over the provisions of the other standards, for machines that have been designed and built according to the provisions of this type C standard.

1 Scope

This European Standard specifies the performance requirements for blinds and awnings intended to be fitted externally to buildings and other construction works. It deals also with the significant hazards for assembly, transport, installation, operation and maintenance (see list of significant machine hazards in Annex B).

It applies to all external blinds and awnings whatever their design and nature of the materials used, as follows and defined in EN 12216:

- folding arm awning, trellis arm awning, pivot arm awning, slide arm awning, vertical roller blind, marquise, façade awning, skylight awning, conservatory awning, Pergola awning, Dutch awning, insect screen; brise-soleil.

This European Standard does not cover the wind resistance of non-retractable products, e.g. Dutch awnings and brise-soleil.

The structural part to which the Pergola awning is fixed is not covered.

The products covered by this European Standard may be operated manually, with or without compensating springs or by means of electric motors (power operated products). However, the durability and endurance of the autonomous supply for power operated external blinds and awnings not connected to the mains supply are not covered.

This European Standard deals also with all significant hazards, hazardous situations and events when external blinds and awnings are used as intended and under conditions of misuse which are reasonably foreseeable by the manufacturer (see Annex B).

This European Standard covers external blinds and awnings mounted externally. In case such products are installed internally, they should fulfil all relevant safety requirements defined in EN 13120.

The noise emission of power operated external blinds and awnings is not considered to be a relevant hazard according to the machinery health and safety requirements. Therefore this European Standard does not contain any specific requirements on noise health and safety objective.

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 1522, *Windows, doors, shutters and blinds - Bullet resistance - Requirements and classification*

EN 1523, *Windows, doors, shutters and blinds - Bullet resistance - Test method*

EN 1670, *Building hardware - Corrosion resistance - Requirements and test methods*

EN 1932, *External blinds and shutters - Resistance to wind loads - Method of testing and performance criteria*

EN 1933, *Exterior blinds - Resistance to load due to water accumulation - Test method*

EN 12045, *Shutters and blinds power operated - Safety in use - Measurement of the transmitted force*

EN 12194, *Shutters, external and internal blinds - Misuse - Test methods*

EN 12216, *Shutters, external blinds, internal blinds - Terminology, glossary and definitions*

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