



NSAI
Standards

Irish Standard
I.S. EN 13126-2:2011

Building hardware - Requirements and test methods for windows and doors height windows - Part 2: Window fastener handles

I.S. EN 13126-2:2011

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:
CEN/TS 13126-2:2004

<i>This document is based on:</i> EN 13126-2:2011 CEN/TS 13126-2:2004	<i>Published:</i> 21 October, 2011 7 April, 2004
---	--

This document was published under the authority of the NSAI and comes into effect on:
21 October, 2011

ICS number:

91.190

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

English Version

Building hardware - Requirements and test methods for windows and doors height windows - Part 2: Window fastener handles

Quincaillerie pour le bâtiment - Exigences et méthodes d'essai des ferrures de fenêtres et portes-fenêtres - Partie 2: Poignées à ergot de verrouillage

Baubeschläge - Beschläge für Fenster und Fenstertüren - Anforderungen und Prüfverfahren - Teil 2: Einreibverschlüsse

This European Standard was approved by CEN on 26 August 2011.

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, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.



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

Management Centre: Avenue Marnix 17, B-1000 Brussels

Contents	Page
Foreword	3
1 Scope.....	6
2 Normative references	6
3 Terms and definitions.....	6
4 Classification	7
4.1 General	7
4.2 Category of use (1 – first digit)	7
4.3 Durability (2 – second digit).....	7
4.4 Mass (3 – third digit)	7
4.5 Fire resistance (4 – fourth digit)	7
4.6 Safety in use (5 – fifth digit)	8
4.7 Corrosion resistance (6 – sixth digit).....	8
4.8 Security (7 – seventh digit)	8
4.9 Application (8 – eighth digit).....	8
4.10 Test sizes – Size limitations (9 – ninth digit).....	8
4.11 Example of classification for window fastener handles (EN 13126-2)	9
5 Requirements	9
5.1 General	9
5.2 Operating torque	9
5.3 Torsion strength.....	9
5.4 Tensile strength - eccentric	9
5.5 Simulated pressure	10
5.6 Pull-in	10
5.7 Durability.....	10
5.8 Security	10
5.8.1 General.....	10
5.8.2 Durability of the locking mechanism	11
5.8.3 Torque resistance of the locking mechanism / solid fixing.....	11
5.8.4 Twist-off resistance	11
5.8.5 Forcing off resistance.....	11
6 Test equipment.....	12
7 Test procedure	12
7.1 Samples	12
7.2 Operating torque test procedure.....	12
7.3 Torsion strength test procedure	13
7.4 Tensile strength test procedure – eccentric	13
7.5 Simulated pressure test procedure.....	13
7.6 Pull-in test.....	13
7.7 Durability test procedure.....	14
7.8 Corrosion resistance	14
7.9 Locking mechanism durability test.....	14
7.10 Torque resistance of the locking mechanism / solid fixing test	14
7.11 Test - Resistance against twisting-off and forcing-off.....	15
Annex A (informative) Tests method diagrams	16
Annex B (informative) Figures	18

Foreword

This document (EN 13126-2:2011) 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 April 2012, and conflicting national standards shall be withdrawn at the latest by April 2012.

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 CEN/TS 13126-2:2004.

The major changes of this document to CEN/TS 13126-2:2003 are:

- the addition of three grades and three extensions for the security
- the addition of security requirements and the corresponding tests
- the modification of the number of test samples (8 instead of 3)
- the increase to 550 cycles/h rate for the durability test.

4.8 Security (7 – seventh digit)

Three grades have been added into this draft to give similarity with prEN13126-3, three extensions have also been added for the locking style of the handle.

Grade 0: Without security

Grade 1: 35 Nm resistance against twisting-off and forcing-off

Grade 2: 100 Nm resistance against twisting-off and forcing-off

Extension 0: No locking mechanism

Extension 1: Non-key operated locking mechanism (e.g. ‘PTO’: Push-to-open)

Extension 2: Key-operated locking mechanism

Table 1 – Security

Grade	Description
0/0	No requirements against twisting-off and forcing-off / without locking mechanism
1/1	35 Nm resistance against twisting-off and forcing-off / Non-key operated locking mechanism ('PTO': push to open)
1/2	35 Nm resistance against twisting-off and forcing-off / Key operated locking mechanism
2/1	100 Nm resistance against twisting-off and forcing-off / Non-key operated locking mechanism ('PTO': push to open)
2/2	100 Nm resistance against twisting-off and forcing-off / Key operated locking mechanism

Digit seven will now contain two classifications i.e. 1/2

Digit 7 security - grade 1/2; rated as resisting 35 Nm twisting-off and forcing-off force, and has key operated locking mechanism.

With the addition of locking handles several additional points have been included:

5.8.1 General

5.8.2 Durability of the locking mechanism – new requirement

5.8.3 Torque resistance of the locking mechanism / Solid fixing – new requirement

5.8.4 Twist-off resistance – new requirement

5.8.5 Forcing off resistance – new requirement

7.1 Samples – Eight samples are to be submitted apposed to three

7.7 Durability Test Procedure, the rate that the cycle test is carried out has been increased to 550 cycles/h in line with prEN13126-3

7.9 Locking Mechanism durability test – new requirement

7.10 Torque resistance of the locking mechanism / solid fixing test – new requirement

7.11 Test – Resistance against twisting-off and forcing-off – new requirement

In general there has been a reduction in the tolerance band within the draft over the last published standard.

A full contribution to the preparation of this European Standard has been made by the European manufacturers' organization 'ARGE' and national standards bodies.

EN 13126 *Building hardware — Requirements and test methods for windows and doors height windows* consists of the following parts:

Part 1: Requirements common to all types of hardware

Part 2: Window fastener handles¹⁾

Part 3: Manoeuvring fittings for espagnolette bolts/sliding button¹⁾

Part 4: Espagnolettes

Part 5: Devices that restrict the opening of windows¹⁾

Part 6: Variable geometry stay hinges (with or without a friction stay)

Part 7: Finger catches

Part 8: Tilt&Turn, Tilt-First and Turn-Only hardware

Part 9: Pivot hinges¹⁾

Part 10: Arm-balancing systems

Part 11: Top hung projecting reversible hardware

Part 12: Side hung projecting reversible hardware

Part 13: Sash balances¹⁾

Part 14: Sash fasteners¹⁾

Part 15: Rollers for horizontal sliding and sliding folding windows and doors

Part 16: Hardware for Lift&Slide windows and doors

Part 17: Hardware for Tilt&Slide windows and doors

Part 18: Requirements and test procedures for durability, strength, security and functionality of Fan light openers for windows and door height windows

Part 19: Sliding Closing Devices

The performance tests incorporated in this standard are considered to be reproducible and as such will provide a consistent and objective assessment of the performance of these products throughout CEN Member States.

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, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

¹⁾ Under revision currently on Technical specification.

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](#)
-