Building hardware - Hardware for windows and door height windows - Requirements and test methods - Part ric is a providing denoted by the 5: Devices that restrict the opening of windows and door height windows



EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 13126-5:2011 sisaldab	This Estonian standard EVS-EN 13126-5:2011		
Euroopa standardi EN 13126-5:2011 ingliskeelset	consists of the English text of the European standard		
teksti.	EN 13126-5:2011.		
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.		
, and the second	Date of Availability of the European standard is 23.11.2011.		
Standard on kättesaadav Eesti Standardikeskusest.	The standard is available from the Estonian Centre for Standardisation.		

Tagasisidet standardi sisu kohta on võimalik edastada, kasutades EVS-i veebilehel asuvat tagasiside vormi või saates e-kirja meiliaadressile standardiosakond@evs.ee.

ICS 91.190

Standardite reprodutseerimise ja levitamise õigus kuulub Eesti Standardikeskusele

Andmete paljundamine, taastekitamine, kopeerimine, salvestamine elektroonsesse süsteemi või edastamine ükskõik millises vormis või millisel teel ilma Eesti Standardikeskuse kirjaliku loata on keelatud.

Kui Teil on küsimusi standardite autorikaitse kohta, võtke palun ühendust Eesti Standardikeskusega: Aru 10, 10317 Tallinn, Eesti; www.evs.ee; telefon 605 5050; e-post info@evs.ee

The right to reproduce and distribute standards belongs to the Estonian Centre for Standardisation

No part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying, without a written permission from the Estonian Centre for Standardisation.

If you have any questions about copyright, please contact Estonian Centre for Standardisation: Aru 10, 10317 Tallinn, Estonia; www.evs.ee; phone 605 5050; e-mail info@evs.ee

EUROPEAN STANDARD NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 13126-5

November 2011

ICS 91.190

Supersedes CEN/TS 13126-5:2004

English Version

Building hardware - Hardware for windows and door height windows - Requirements and test methods - Part 5: Devices that restrict the opening of windows and door height windows

Quincaillerie pour le bâtiment - Exigences et méthodes d'essai des ferrures de fenêtres et portes-fenêtres - Partie 5: Dispositifs limiteurs d'ouverture des fenêtres et portes-fenêtres

Baubeschläge - Beschläge für Fenster und Fenstertüren -Anforderungen und Prüfverfahren - Teil 5: Vorrichtungen zur Begrenzung des Öffnungswinkels von Fenstern

This European Standard was approved by CEN on 15 October 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

	itents	Page
Forew	vord	3
1	Scope	
2	Normative references	5
3	Terms and definitions	5
4	Classification	6
4.1	General	6
4.2	Category of use (1 – first digit)	
4.3	Durability (2 – second digit)	
4.4	Mass (3 – third digit)	
4.5	Fire resistance (4 – fourth digit)	
4.6	Safety in use (5 – fifth digit)	
4.7	Corrosion resistance (6 – sixth digit)	
4.8	Security (7 – seventh digit)	
4.9	Application (8 – eighth digit)	
4.10	Test sizes – Size limitations (9 – ninth digit)	
4.11	Example of classification for devices that restrict the opening of windows	
	· · · · · · · · · · · · · · · · · · ·	
5	Requirements	
5.1	General	
5.2	Initial opening test	
5.3	Durability test	
5.4	Mechanical strength test	
5.5	Static load test	11
5.6	Percussion test	
5.7	Impact test	12
5.8	Cutting test	12
6	Test equipment	12
7	Test methods	13
7.1	Samples	13
7.2	Initial Opening test procedure	
7.3	Durability test	
7.4	Mechanical Strength test	
7.5	Static Load test procedure	
7.6	Percussion test procedure	
7.7	Impact test procedure	
7.8	Cutting test procedure	
7.9	Corrosion resistance	
	x A (informative) Test equipment	
	x B (normative) Test flow chart	
סוומום	ography	

Foreword

This document (EN 13126-5:2011) 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 May 2012, and conflicting national standards shall be withdrawn at the latest by May 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 13126-5:2004.

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

This European Standard is one of a series of European Standards dedicated to building hardware products. It is divided into many parts, the first part being common to all the other parts of this standards series, incorporating all types of hardware for windows and door height windows.

Annex A (informative) of EN 13126-1 lists the titles of all parts of this European Standard and refers to their different window opening-type applications.

Annex B (informative) of EN 13126-1 provides a list of the elements of components used on the various types of window opening functions.

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 The main changes between this European Standard and the previous are

- Clause 3, Terms and definitions:
 - Child safety restrictor added in 3.5;
- Clause 4, Classification:
 - additional grades added in 4.6 (Safety in use);
 - additional grades added in 4.9 (Application);
 - table with test sizes added in 4.10 (Test sizes);
 - example of classification added in 4.11;
- Clause 5, Requirements:
 - requirements in whole Clause 5 have been completely revised;
- Clause 7, Test methods:
 - test methods in whole Clause 7 have been completely revised;

- tests for child safety restrictors added in 7.2.3 and 7.4.3;
- durability test revised completely in 7.3.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following E. mple stonia, g. Matia, i and the Unit. 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 Scope

This part of EN 13126 specifies requirements and test methods for durability, strength, security and functionality of devices that restrict the opening of windows and door height windows.

NOTE 1 Restrictors and reverse restrictors can be either a separate item of hardware or an integral part of hardware, for example a part of the operating gear or an integral part of a hinge.

NOTE 2 Windows may be fitted with more than one restrictor.

NOTE 3 The requirements included within this standard take the needs for child safety into consideration, child protective window restrictors intended to be installed by the end consumers are beyond the scope of this standard. Therefore, for the DIY market refer to PC398 and prEN 16281.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 1670, Building hardware — Corrosion resistance — Requirements and test methods

EN 12519, Windows and pedestrian doors — Terminology

EN 13049, Windows — Soft and heavy body impact — Test method, safety requirements and classification

EN 13126-1, Building hardware — Hardware for windows and door height windows — Requirements and test methods — Part 1: Requirements common to all types of hardware

ISO 8317, Child-resistant packaging — Requirements and testing procedures for reclosable packages

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 13126-1 and EN 12519 and the following apply.

3.1

limiting restrictor (including maximum opening stops)

device intended to limit the movement of an active sash to a predetermined position

3.2

holding restrictor (including peg type casement stays)

mechanical device which is intended to hold the active sash in a predetermined position

3.3

reverse restrictor

mechanical device which holds a reversed active sash securely for cleaning

3.4

safety restrictor

robust mechanical device intended to limit the initial movement of an active sash in a predetermined position, maximum 100 mm, to prevent accidental passage through the window