



SLOVENSKI STANDARD
SIST-TS CEN/TS 13126-14:2005
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Stavbno okovje, pritrjevalni sistemi za okna in zastekljena vrata – Zahteve in preskusne metode – 14. del: Sponka drsnih oken

Building hardware, fittings for windows and door height windows - Requirements and test methods - Part 14: Sash fasteners

Baubeschläge, Beschläge für Fenster und Fenstertüren - Anforderungen und Prüfverfahren - Teil 14: Einreiberverschlüsse für Schiebefenster

Quincaillerie pour le bâtiment, ferrures de fenetres et portes-fenetres - Exigences et méthodes d'essai - Partie 14: Verrouillages a came

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TECHNICAL SPECIFICATION
SPÉCIFICATION TECHNIQUE
TECHNISCHE SPEZIFIKATION

CEN/TS 13126-14

April 2004

ICS 91.190

English version

**Building hardware, fittings for windows and door height windows
- Requirements and test methods - Part 14: Sash fasteners**

Quincaillerie pour le bâtiment, ferrures de fenêtres et
portes-fenêtres - Exigences et méthodes d'essai - Partie
14: Verrouillages à came

Baubeschläge, Beschläge für Fenster und Fenstertüren -
Anforderungen und Prüfverfahren - Teil 14:
Einreiberverschlüsse für Schiebefenster

This Technical Specification (CEN/TS) was approved by CEN on 18 August 2003 for provisional application.

The period of validity of this CEN/TS is limited initially to three years. After two years the members of CEN will be requested to submit their comments, particularly on the question whether the CEN/TS can be converted into a European Standard.

CEN members are required to announce the existence of this CEN/TS in the same way as for an EN and to make the CEN/TS available promptly at national level in an appropriate form. It is permissible to keep conflicting national standards in force (in parallel to the CEN/TS) until the final decision about the possible conversion of the CEN/TS into an EN is reached.

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

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CEN/TS 13126-14:2004 (E)

Contents

	Page
Foreword	3
1 Scope	4
2 Normative references	4
3 Terms and definitions	4
4 Classification	4
5 Requirements	5
6 Test apparatus	6
7 Test methods	6
Annex A (informative) Apparatus	8
Annex B (normative) Flow chart of test procedure	9
Bibliography	10

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Foreword

This document (CEN/TS 13126-14:2004) 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.

A full contribution to the preparation of this Technical Specification has been made by the European manufacturers organisation 'ARGE' and National Standards institutions.

This Technical Specification is one of a series of Technical Specifications dedicated to building hardware products. It is divided into seventeen parts to incorporate all types of windows and door height windows.

Informative annex A of CEN/TS 13126-1 gives detailed schedules of the elements of components of the seventeen parts of this Technical Specification.

Normative annex B of CEN/TS 13126-1 gives schedules of the elements of components used on the 21 types of window opening functions.

Normative and informative annex to all parts of this Technical Specification are indicated in the content of the seventeen parts.

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.

Annex A is informative while annex B is normative.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to announce this Technical Specification: Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

CEN/TS 13126-14:2004 (E)

1 Scope

This Part of CEN/TS 13126 gives requirements and test methods for durability, strength, security and function of sash fasteners for windows and door height windows.

2 Normative references

This Technical Specification incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text, and the publications are listed hereafter. For dated references, subsequent amendments to, or revisions of, any of these publications apply to this standard only when incorporated in it by amendment or revision. For undated references, the latest edition of the publication referred to applies (including amendments).

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

EN 12519:2004, *Windows and doors - Terminology*

CEN/TS 13126-1:2004 *Building hardware – Fittings for windows and door height windows – Requirements and test methods – Requirements common to all types of fittings*

3 Terms and definitions

For the purposes of this Technical Specification, the terms and definitions given in EN 12519:2004 for windows and doors and the following apply.

3.1

sash fastener

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device to secure, in the closed position, sashes of a double or single hung vertically sliding window and sashes of a horizontally sliding window.

4 Classification

4.1 General

The classification for sash fasteners shall be in accordance with the requirements of clause 4 in CEN/TS 13126-1: 2004.

4.2 Category of use (first digit)

No requirement.

4.3 Durability (second digit)

Grades shall be in accordance with 4.3 of CEN/TS 13126-1:2004.

4.4 Mass (third digit)

Grades shall be in accordance with 4.4 of CEN/TS 13126-1:2004.

4.5 Fire resistance (fourth digit)

Grades shall be in accordance with 4.5 of CEN/TS 13126-1:2004.

4.6 Safety in use (fifth digit)

Grades shall be in accordance with 4.6 of CEN/TS 13126-1:2004.

4.7 Corrosion resistance (sixth digit)

Grades shall be in accordance with 4.7 of CEN/TS 13126-1:2004.

4.8 Security (seventh digit)

Grades shall be in accordance with 4.8 of CEN/TS 13126-1:2004.

4.9 Application (eighth digit)

Only one grade of fitting is identified according to test :

— grade 1 : suitable for use on vertical and horizontal sliding windows.

4.10 Tests Sizes – Size limitations (ninth digit)

The window/door height window size in which the component has been tested shall be stated in accordance with the designated number listed in Table 3 of CEN/TS 13126-1:2004.

5 Requirements

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5.1 General

The requirements of sash fasteners shall met in accordance with clause 5 of CEN/TS 13126-1:2004.

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5.2 Additional requirements**5.2.1 Operating strength**

When tested in accordance with 7.4.1 the operating force shall not exceed 5 Nm or an applied force of 50 N.

5.2.2 Resistance to horizontal operating forces

When tested in accordance with 7.4.2 the maximum deformation shall not exceed 1 mm.

5.2.3 Resistance to vertical operating forces.

When tested in accordance with 7.4.3 the maximum deformation shall not exceed 1 mm

5.2.4 Resistance to wear

When tested in accordance with 7.5 the sample shall be inspected for fractures. The pull-in shall not be reduced to less than 0,2 mm both vertically and horizontally.

5.2.5 Permanent deformation

On completion of the test in accordance with 7.6 there shall be no permanent deformation of the fitting.

CEN/TS 13126-14:2004 (E)**6 Test apparatus**

The sash fasteners shall be mounted on a test apparatus as specified in clause 6 of CEN/TS 13126-1:2004 in accordance with the manufacturer's instructions.

7 Test methods**7.1 Samples**

Three samples shall be used for testing to this Technical Specification:

sample A – performance tests

sample B – corrosion tests

sample C – retained for reference control

If a specimen fails to meet the appropriate acceptance requirements, two further specimens shall be tested. A pass of the second test shall be accepted but failure shall be recorded accordingly.

There shall be no breakage of any part

7.2 Procedure

Install the sash fastener in a position representative of its intended position on either a vertical or horizontal sliding window in accordance with the manufacturer's fixing instructions.

Cycling in test 7.3 shall be at the rate of 250 cycles/h ⁺²⁵ 0 cycles/h, for the number of cycles according to the grade selected.

- grade 3 : 10 000 cycles ⁺⁵⁰⁰ 0 cycles
- grade 4 : 15 000 cycles ⁺⁷⁵⁰ 0 cycles
- grade 5 : 25 000 cycles ⁺¹⁰⁰⁰ 0 cycles

The tests in 7.3, 7.4, 7.5 and 7.6 shall be carried out in succession on the same specimen.

7.3 Durability test**7.3.1 General**

On completion of each 5.000 cycles, all moving parts requiring lubrication, will be lubricated unless the hardware is claimed to be maintenance free.

7.4 Static force tests**7.4.1 Operating force test**

Partially engage the cam of the fastener within the keeper.

Apply a force of 40 N ± 1 N, without shock, to the floating base cross beam in the direction to separate the sections both vertically and horizontally. (see Figures 1 and 2)

Measure the torque required to fully engage.

7.4.2 Excessive horizontal force test

With the $40 \text{ N} \pm 1 \text{ N}$ force operating force maintained, increase the force on the floating base cross beam, without shock, to $300 \text{ N} \begin{smallmatrix} +15 \\ 0 \end{smallmatrix}$ N in a horizontal direction away from the fixed base for a period of $10 \text{ s} \pm 3 \text{ s}$.

Remove the force.

Measure and record any permanent deformation.

7.4.3 Excessive vertical force test

Repeat 7.4.1

Increase the force, without shock, to $300 \text{ N} \begin{smallmatrix} +15 \\ 0 \end{smallmatrix}$ N in a vertical direction away from the fixed base for a period of $10 \text{ s} \pm 3 \text{ s}$. Remove the force.

Measure and record any permanent deformation.

7.5 Wear test

Apply a force of $40 \text{ N} \pm 1 \text{ N}$, without shock, to the floating base cross beam in both a vertical and horizontal direction away from the fixed base with the operating lever $50\% \pm 2\%$ engaged

Perform the durability test in accordance with 8.2 and 8.3 of CEN/TS 13126-1:2004 by operating the lever through $60^\circ \pm 5^\circ$ equally about the centre line for the required number of cycles.

Measure and record both horizontal and vertical movement of the fastener. The fastener shall not fracture or deform during the test.

Measure and record the position of the floating base cross beam to an accuracy of 0,1mm

7.6 Permanent deformation test

Repeat tests 7.4.1, 7.4.2 and 7.4.3

Measure and record any permanent deformation. Measure and record the "pull-in" at the conclusion of the test.

7.7 Corrosion resistance

7.7.1 Neutral salt spray test

The corrosion resistance test shall be conducted in accordance with clause 5.8 of CEN/TS13126-1:2004 and additionally according to the following requirements:

The fitting shall be mounted in a fixture similar to a window or door height window application and subjected to a neutral salt spray test in accordance with EN 1670 to determine the ability to operate after environmental exposure.

Lubrication is permitted at the commencement of the test, as recommended by the manufacturer in the installation instructions.

The fitting shall be operated once every 24 h during the test.