SLOVENSKI STANDARD

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Building hardware, fittings for windows and door height windows - Requirements and test methods - Part 7: Finger catches

Baubeschläge, Beschläge für Fenster und Fenstertüren - Anforderungen und Prüfverfahren - Teil 7: Fallen-Schnäpper

Quincaillerie pour le bâtiment, ferrures de fenetres et portes-fenetres - Exigences et méthodes d'essai - Partie 7: Verrous de ferme-imposte

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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.

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Foreword

This document (CEN/TS 13126-7:2004) 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 Specifications are indicated in the content of the seventeen parts.

The performance tests incorporated in this Technical Specification 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 and 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.

1 Scope

This Part of CEN/TS 13126 gives requirements and test methods for durability, strength, security and function of finger catches 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 below. For dated references, subsequent amendments to, or revisions of, any of these publications apply to this Technical Specification 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 – Part 1: 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 apply.

4 Classification

4.1 General

The classification for finger catches 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)

No requirement.

4.10 Test Sizes – Size limitations (ninth digit)

The maximum designated window size in which the component has been tested as a single fitting shall be stated in accordance with the designated number listed in Table 4 of CEN/TS 13126-1:2004.

5 Requirements.

5.1 General

The requirements of finger catches shall be met in accordance with clause 5 of CEN/TS 13126-1:2004

5.2 Additional tests

5.2.1 Mechanical resistance

There shall be no breakage or deformation of any part during the test sufficient to prevent normal operation of the catch.

5.2.2 Durability

One grade is identified in accordance with Table 1.

— Grade 3 : 10 000 cycles.

Table 1 – Test forces

Test sequence	Force		
	F_1 (N)	F_2 (N)	F_3 (N)
Before durability test	≤20	—	40 ± 1
Durability test: — 10 000 cycles	not measured	—	20 ± 1
After durability test	≤ 20	—	—
Static load test (force shall be applied for 60 s)	—	$200\ ^{+10}_{\ 0}$	$300\ ^{+15}_{\ 0}$

6 Test apparatus

The finger catches shall be fitted to a test apparatus as specified in clause 6 of CEN/TS 13126-1:2004 using a simulated casement or sash, size 700 mm ± 10 mm wide x 500 mm ± 10 mm high in accordance with the manufacturer's fixing instructions (see Figure 1).

Mount the sample finger operated catch and keep to the centre of the top rail of casement or sash.

7 Test methods

7.1 Samples

Three test 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 Durability test

Measure the force F_1 necessary to operate the finger catch whilst maintaining a force F_3 40 ±1 N at the centre of the top rail of the casement or sash (see Figure 1).

Apply force F_3 = 20 N ±1 N at the centre of the top rail of the casement or sash and maintain throughout the test.

Operate the casement or sash, without shock, for 10 000 cycles $^{+500}_{0}$ cycles at a rate of 250 cycles/h $^{+25}_{0}$ cycles / h.

After the test, measure and record the force F_1 required to operate the finger catch, while maintaining force F_3 = 40 N ±1 N, at the centre of the top rail of the casement or sash (see Figure 1).

NOTE The catch should be lubricated in accordance with the manufacturer's fixing instructions.

On completion of each 5000 cycles, all moving parts requiring lubrication, shall be lubricated unless the hardware is claimed to be maintenance free.

7.3 Static load test

(see Table 1)

Apply static load F_2 = 200 N $^{+10}_{0}$ N without shock for 60 s $^{+10}_{0}$ s and release, (see Figure 1)

Apply load F_3 = 300 N $^{+15}_{0}$ N for 60 s $^{+10}_{0}$ s. Measure and record the force F_1

7.4 Corrosion resistance

7.4.1 Neutral salt spray test

The corrosion resistance test shall be conducted in accordance with clause 5.8 of CEN/TS 13126-1:2004 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.