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Stavbno okovje, pritrjevalni sistemi za okna in zastekljena vrata – Zahteve in preskusne metode – 17. del: Okovje za nagibne in drsne sisteme

Building hardware, fittings for windows and door height windows - Requirements and test methods - Part 17: Fittings for tilt and slide systems

Baubeschläge, Beschläge für Fenster und Fenstertüren - Anforderungen und Prüfverfahren - Teil 17: Beschläge für Kippschiebe-Systeme

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Quincaillerie pour le bâtiment, ferrures de fenetres et portes-fenetres - Prescription et methodes d'essais - Partie 17: Ferrures pour depositifs oscillo-décalants-coulissants

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

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Foreword

This document (CEN/TS 13126-17:2004) 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. STANDARD PREVIEW

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.

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Annex A is informative while annex B is normative.

Annex A is informative while annex B is normative.

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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 fittings for tilt and slide systems 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 pedestrian 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

CEN/TS 13126-15, Building hardware Fittings for windows and door height windows – Requirements and test-methods - Part: 15: Rollers.

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3 Terms and definitions²³cf63d5cfb2/sist-ts-cen-ts-13126-17-2005

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 manoeuvring fittings for casement fastener handles 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)

One grade of fitting are identified according to test:

grade 1 : suitable for use on tilt and slide windows (type T).

4.10 Test Sizes – Size limitations (ninth digit) (Standards.iteh.ai)

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.

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5 Requirements

5.1 Introduction

The manufacturer shall provide the following information in addition to the standard fixing instructions:

- a) maximum sash mass
- b) maximum sash dimensions
- c) tolerances for manufacture
- d) the number and location of locking points. (Minimum number required = 5)

5.2 General

The requirements of fittings for tilt and slide systems shall be met in accordance with clause 5 of CEN/TS 13126-1:2004.

5.3 Durability

The rollers shall meet the requirements of CEN/TS 13126-15.

5.4 Additional requirements

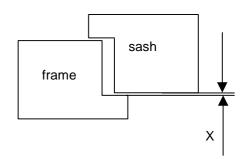
5.4.1 Closing force

The force necessary to secure the window shall be measured before and after the durability test.

The maximum torque applied to the handle, with an applied force of 50 N $_0^{+2,5}$ N per locking point, shall not exceed 30 Nm or an applied force of 100 N.

5.4.2 Wear resistance

Before and after the durability test, the distance "X" between the frame surface and the sash-overlap-begin shall be measured in conjunction with a counteracting force of 50 $_0^{+1}$ N per locking point. The results shall not differ by more than 1 mm.



5.4.3 Abuse load resistance

On completion of the test, the sash shall still be constrained by its fixings but is not required to operate.

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6 Test apparatus

The tilt and slide system shall be mounted in a test apparatus as specified in clause 6 of CEN/TS 13126-1:2004 in accordance with the manufacturer's fixing instructions.

The total minimum number of locking points required on the locking edges is five

7 Test methods

7.1 Samples

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

sample A - durability test.

sample B - corrosion test.

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

The specimen shall be mounted on the test apparatus in accordance with the manufacturer's fixing instructions, according to the material for which it has been designed i.e. timber, PVCu, aluminium, without weather stripping.

The type of material and/or profile, size of screw for fixing fittings and any other special features, shall be in accordance with the manufacturer's, recommendations and shall be described in the test report.

Install the tilt and slide system in the same manner in which it would be fitted in a horizontal sliding window according to the manufacturer's fixing instructions using the fixings provided for the type of window selected (see Figure 1).

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

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 $_0^{+500}$ cycles
- grade 4: 15 000 cycles 15 cycles NDARD PREVIEW
- grade 5: 25 000 cycles o cycles

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Durability test

Cycle the window in accordance with 8.2 and 8.3 of CEN/TS 13126-1:2004 as follows:

The tilt and slide action shall be to tilt the window in the closed static position, allowing it to fully rest on the sash stay and slide for the full opening width of the test window.

Return the window to the closed position and lower into the static/secure position.

Apply a force of 50 N $_0^{+2,5}$ N to each locking point to simulate the effect of weatherstriping.

Close the test window to within a distance of 3 mm ±1 mm from the fully closed position

Fully close the window using the closing mechanism

On completion of each 5 000 cycles the window shall be re-adjusted and all moving parts lubricated in accordance with the manufacturer's instructions.

If the hardware is claimed to be maintenance free no lubrication shall be allowed.

The force necessary to secure the window shall be measured and recorded at the commencement of the durability test

Measure and record the required force on termination of the test. There shall be no variation in the readings.