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STN	**Stavebné kovanie Kovanie na okná a balkónové dvere Požiadavky a skúšobné metódy Časť 6: Nožnice s rôznou geometriou (s alebo bez brzdiaceho systému)**	**STN EN 13126-6 16 6015**

Building hardware - Hardware for windows and door height windows - Requirements and test methods - Part 6: Variable geometry stay hinges (with or without a friction stay)

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

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Building hardware - Hardware for windows and door height windows - Requirements and test methods - Part 6: Variable geometry stay hinges (with or without a friction stay)

Quincaillerie pour le bâtiment - Exigences et méthodes d'essai des ferrures de fenêtres et portes-fenêtres - Partie 6 : Compas à géométrie variable (avec ou sans système de friction)

Baubeschläge - Beschläge für Fenster und Fenstertüren - Anforderungen und Prüfverfahren - Teil 6: Scheren mit veränderlicher Geometrie (mit oder ohne Friktionssystem)

This European Standard was approved by CEN on 30 April 2018.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
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EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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European foreword

This document (EN 13126-6:2018) 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of an identical text or by endorsement, at the latest by February 2019, and conflicting national standards shall be withdrawn at the latest by February 2019.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 13126-6:2008.

This European Standard is one of a series of European Standards for building hardware products for windows and door height windows. This European Standard is independent of part 1 of EN 13126.

The performance tests incorporated in this European 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.

A list of all parts in the EN 13126 series can be found on the CEN-CENELEC website.

In comparison with EN 13126-6:2008, the following significant changes were made:

— EN 13126-6 now is independent from EN 13126-1; all necessary information is included without the need of any further information from part 1;

— several editorial changes in the wording for a better understanding and to cover variable/parallel geometry stay hinges in the whole standard;

— under Clause 1 'Scope', variable/parallel geometry stay hinges (with or without a friction system) added; former Note 1 deleted;

— under term number 3.2, definition added for parallel geometry stay hinge (with or without a friction system);

— the term 'parallelism' added under term number 3.7;

— the term 'egress easy clean' added under term number 3.8;

— terms 'sample', 'specimen' and 'test-rig' added under term numbers 3.9, 3.10 and 3.11;

— under 4.1, classification system changed completely; former digits 1 (Category of use), 4 (Fire resistance), 5 (Safety in use), 7 (Security) and 8 (Applicable part) deleted; former digit 2 changed into box 1 (Durability), former digit 3 changed into box 2 (Mass), former digit 6 changed into box 3 (Corrosion resistance), former digit 9 changed into box 4 (Test sizes) and former digit 8 (application) transferred into box 5 (application);

— under 4.2, new grades for the number of cycles defined; H1 (5 000), H2 (10 000) and H3 (20 000) with the same number of cycles for the tilt and the turn cycles; refer also to 5.3;

— under 4.7, new example added for the new classification;

— under 4.5, new Table 5 added with "Test window size for parallel geometry opening stay hinges';

— under 5.5, 'Parallelism test' added;

— under 5.9, Table 8 'Durability test sequence' amended;

— under Clause 6, 'Test equipment and preparation for the test' additional information added for the test rig (6.1), the specimen (6.2), the mounting of the specimen (6.3), additional equipment (6.4);

— under 7.2, 'General' additional information added for the testing procedure;

— under 7.3, 'Adjusting the sash-mass' information added, mainly from the current version of part 1;

— under 7.4, 'Lubrication and adjustment of hardware', mainly from the current version of part 1;

— under 7.7.2, 'Procedure – parallel opening windows' added for the obstructed track test (7.7);

— under 7.9.2, 'Procedure – parallel opening windows' added for the ease of sash movement test (7.9);

— Annex A and Annex B amended with figures regarding parallel geometry opening stay hinges;

— new flowcharts added in Annex C;

— new informative Annex D with window types.

A full contribution to the preparation of this European Standard has been made by the European manufacturer's organization 'ARGE' and National Standards institutions.

According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

1 Scope

This part of EN 13126 specifies requirements and test methods for durability, strength, security and function of mechanically operated variable/parallel geometry stay hinges (with or without a friction system) whether fitted, with integral restrictors or not, in accordance with common application as shown in informative Annex D.

By means of this standard, the user of recognized tested hardware can assume that with correct usage, the variable/parallel geometry stay hinges (with or without a friction system) for windows conform to prescribed requirements.

NOTE 1 Balancing stay arms/hinges do not represent a friction system.

NOTE 2 For the purposes of this standard, the friction system is achieved by friction pads or similar.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 13126-5, *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*