
Stavbno okovje - Specifikacije - Identifikacija in povzetek revizijskih dokazov v podporo zamenljivosti za gradbeno okovje za uporabo pri požarno odpornih in za dim neprepustnih vratih in oknih, ki se odpirajo

Hardware performance sheet (HPS) - Identification and summary of test evidence to facilitate the inter-changeability of building hardware for application to fire resisting and/or smoke control doorsets and/or openable windows

Leistungsbeschreibung für Baubeschläge - Identifizierung und Zusammenfassung der Prüfnachweise zur Unterstützung der Austauschbarkeit von Baubeschlägen für die Anwendung an feuerwiderstandsfähigen und/oder rauchdichten Toren, Türen und/oder zu öffnenden Fenstern

Quincaillerie pour le bâtiment - Fiche de performance des quincailleries (HPS) - Identification et récapitulatif des essais justificatifs visant à faciliter l'interchangeabilité des quincailleries de bâtiment destinés à être installées sur des blocs portes et fenêtre ouvrantes résistant au feu et pare fumées

Ta slovenski standard je istoveten z: prEN 16035

ICS:

13.220.50	Požarna odpornost gradbenih materialov in elementov	Fire-resistance of building materials and elements
91.190	Stavbna oprema	Building accessories

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English Version

**Hardware performance sheet (HPS) - Identification and
summary of test evidence to facilitate the inter-
changeability of building hardware for application to fire
resisting and/or smoke control doorsets and/or openable
windows**

Quincaillerie pour le bâtiment - Fiche de performance
des quincailleries (HPS) - Identification et récapitulatif
des essais justificatifs visant à faciliter
l'interchangeabilité des quincailleries de bâtiment
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Austauschbarkeit von Baubeschlägen für die
Anwendung an feuerwiderstandsfähigen und/oder
rauchdichten Toren, Türen und/oder zu öffnenden
Fenstern

This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 33.

If this draft becomes a European Standard, 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.

This draft European Standard was established by CEN 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.

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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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

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European foreword

This document (prEN 16035:2022) has been prepared by Technical Committee CEN/TC 033 “Doors, windows, shutters, building hardware and curtain walling”, the secretariat of which is held by AFNOR.

This document is currently submitted to the CEN Enquiry.

This document will supersede EN 16035:2012.

In comparison with the previous edition, the following significant technical modifications have been made:

Modified clauses, paragraphs, annexes, tables or figures:

- The structure has been redesigned;
- Additional requirements added for information on thermal separation, isolation, intumescent layer, related EXAP standards and rules;

New normative reference:

- The EN 17020 series of durability of self-closing EXAP standards are now available;

Deleted normative references:

- EN 1154: this standard is no longer referred to;
- EN 14600: this standard has been withdrawn.

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Introduction

The Hardware Performance Sheet (HPS) is intended to facilitate the interaction between the available data from completed tests and the data required for the interchangeability assessment.

For this purpose, this document defines the required data, which can be provided in a standardized data format for the assessment of interchangeability according to the respective Extended Application Rule (EXAP) from the EN 15269 series or EN 17020 series.

This document is primarily addressed to the creators of an HPS as well as to the creators of EXAP reports.

This document is designed to replace a short test report for building hardware in the future, if it proves its usefulness.

For the purposes of this document, the term “doorset” is used as a general term to cover pedestrian doorsets and industrial, commercial and/or garage doorsets.

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1 Scope

This document summarizes relevant results and classifications from tests of the fire and smoke resistance performance of building hardware in the format of a hardware performance sheet (HPS). This document provides guidance and requirements on the minimum data required as a basis for the preparation of EXAP reports for the interchangeability of building hardware on fire-retardant and/or smoke-tight doors and openable windows.

This document identifies the performance characteristics and the requirements for building hardware which can be found in the appropriate product standards.

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 1191, *Windows and doors - Resistance to repeated opening and closing - Test method*

EN 1634-1:2014+A1:2018, *Fire resistance and smoke control tests for door and shutter assemblies, openable windows and elements of building hardware - Part 1: Fire resistance test for door and shutter assemblies and openable windows*

EN 1634-2, *Fire resistance and smoke control tests for door, shutter and openable window assemblies and elements of building hardware - Part 2: Fire resistance characterisation test for elements of building hardware*

EN 1634-3, *Fire resistance and smoke control tests for door and shutter assemblies, openable windows and elements of building hardware - Part 3: Smoke control test for door and shutter assemblies*

EN 12604, *Industrial, commercial and garage doors and gates - Mechanical aspects - Requirements and test methods*

EN 13501-2, *Fire classification of construction products and building elements - Part 2: Classification using data from fire resistance tests, excluding ventilation services*

EN 15269 (all parts), *Extended application of test results for fire resistance and/or smoke control for door, shutter and openable window assemblies including their elements of building hardware*

EN 16034, *Pedestrian doorsets, industrial, commercial, garage doors and openable windows - Product standard, performance characteristics - Fire resisting and/or smoke control characteristics*

EN 17020 (all parts), *Extended application of test results on durability of self-closing for doorsets and openable windows*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1 doorset
pedestrian doorset, industrial, commercial and/or garage doorset, rolling shutter and/or operable fabric curtains including any frame or guide, door leaf or leaves, rolling or folding curtain, etc., which is provided to give a fire resisting and/or smoke control capability when used for the closing of permanent openings in fire resisting separating elements

Note 1 to entry: Including any side panel(s), vision panel(s), flush over panel(s), transom panel(s) and/or glazing together with the building hardware and any seals (whether provided for the purpose of fire resistance or smoke control or for other purposes such as draught or acoustics).

Note 2 to entry: The assembly and fulfilling the provisions of this document are under the responsibility of one identified manufacturer.

3.2 openable window
window with one or more moveable elements including any fixed or removable side or overpanel(s), perimeter frame and relevant elements of building hardware

3.3 interchangeability
possibility, under the responsibility of the competent subject, to use elements of building hardware which differ from those tested in the original doorset or openable window without compromising its performance characteristics

4 General principles of the Hardware Performance Sheet (HPS)

4.1 General

An HPS provides fundamental information to enable a notified body to evaluate the interchangeability of building hardware in context of the application of the EXAP standards EN 15269 (all parts) and EN 17020 (all parts).

An HPS list all applicable test evidence used and performance levels for a specific building hardware by one or more tests.

All identified and stated performance characteristics and levels of building hardware, doorsets and openable windows in an HPS should comply with the appropriate product or classification standard.

The HPS provides information about:

- the identification of the item of building hardware;
- the test evidence used;
- the performance level(s).

The HPS does not provide any approval or permission about the interchangeability of building hardware for fire and/or smoke control doorsets or openable windows.

Provided that the HPS contains all the required information to create an EXAP report and has been prepared or its contents confirmed by a notified body, the HPS shall replace a “hardware related test report” (e.g. EN 1634-1:2014+A1:2018, Clause 12).

If the HPS is not issued or confirmed by a notified body, it can be used to make a preselection. For the creation of an EXAP report, the relevant test report(s) shall be made available to the notified body on request.

5 Data to be provided

5.1 General

The information to be provided shall enable the notified bodies to draw an EXAP report. Tables 1 to 5 describe the structure and content that the HPS shall have.

5.2 Required data — Building hardware

For each item of building hardware, a separate data sheet shall be created. Each data sheet shall contain general information about the building hardware and be completed with the description of the tested element(s), the evidence used and the performance level(s).

Table 1 — Building hardware

Line	Feature	Required indication / properties	Additional information
1.1	HPS No. / version	A specific unique number for identification of the HPS and the version number shall provide by the creator of the document.	
1.2	Date	Date of the version.	
1.3	Prepared by	Organization and name of the creator of the HPS shall be filled in.	
1.4	Manufacturer	The name and the address of the manufacturer, entity or organization that has legal responsibility for placing the item of building hardware on the market shall be filled in.	
1.5	Type of building hardware	The type of building hardware (e.g. “door closing device”, “exit device”, “hinges”, “locks”, “latches”, locking plates, etc.) shall be filled in.	
1.6	Product line	The manufacturer's name of the of the product respectively product family shall be filled in.	
1.7	Relevant EN standard or EAD	The reference of the appropriate EN standard or EAD (with reference to the year of publication of the standard) for the item of building hardware shall be filled in.	
1.8	Classification / performance	In this line the classification based on a test report related to the EN standard or the performance based on an ETA related to an EAD shall be filled in.	
1.9	Test evidence used	The number of attached test evidence related to the type of doorset or openable window shall be filled in.	

5.3 Required data — test evidence used

For each element, to be described separately, there may be one or more attained performance levels.

Table 2 — Test evidence used

Line	Feature	Required indication / properties	Additional information
2.1	HPS No.	The number of the related HPS, see 5.2.2 shall be filled in.	
2.2	No. of test evidence	The count or sequence number of the test evidence related the HPS shall be filled in.	
2.3	Product version	The identification of building hardware (e.g. part number, identification number, etc.) shall be filled in. It shall be the same as found in the test report(s).	
2.4	Main dimensions of building hardware	The main dimensions of the specific building hardware shall be filled in (e.g. housing size, size of face plate).	
2.5	Fixing, building hardware to element	The type, the number and dimension of fixing shall be filled in.	
2.6	Type of doorset or openable window	The type of doorset or openable window shall be described, e.g. steel doorset.	
2.7	Type and material of frame	The type (e.g. profile) and material (e.g. steel, timber, aluminium) of the frame shall be filled in.	
2.8	Frame thickness	The thickness of the frame shall be filled in.	
2.9	Type of operation	Indicate whether the leaf of the doorset or openable window is hinged, pivoted or sliding.	
2.10	Mounting position building hardware	Enter the mounting position of the building hardware (e.g. mortice mounted, surface mounted).	
2.11	Building hardware is mounted on	Mark the leaf on which the building hardware is mounted on (primary leaf, secondary leaf).	
2.12	Leaf mass	The weight of the leaf(s) is to be filled in.	
2.13	Leaf width	The width of the leaf is to be filled in, measured from one rebate/edge to the other.	
2.14	Leaf height	The height of the leaf is to be filled in.	
2.15	Leaf thickness	The thickness of the leaf is to be filled in.	
2.16	Thermal separation	If a thermal separation is part of the element, it shall be filled in.	
2.17	Isolation	If an isolation is part of the element, it shall be filled in.	
2.18	Intumescent layer	If an intumescent layer is part of the element, it shall be filled in, including the description of sides on which it is to be installed.	