Irish Standard
I.S. EN 16035:2012

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

I.S. EN 16035:2012

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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

Fiche de performance des quincailleries (HPS) - Identification et récapitulatif des essais justificatifs visant à faciliter l'interchangeabilité des quincailleries de bâtiment destinées à être installées sur des blocs-portes et/ou des fenêtres ouvrantes résistant au feu et/ou pare-fumées

Baubeschläge - Leistungsbeschreibung - 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

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

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Foreword

This document (EN 16035:2012) 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of an identical text or by endorsement, at the latest by June 2013, and conflicting national standards shall be withdrawn at the latest by June 2013.

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

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, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Introduction

For the purposes of this European Standard, the term “doorset” is used as a general term to cover pedestrian doorsets and industrial, commercial and/or garage doorsets with fire resistance and/or smoke control characteristics.

The term “openable window” in this European standard is used for openable windows with fire resisting and/or smoke control characteristics.

NOTE 1 Cf. also the definition of doorset and openable window as given in 3.1 and 3.2.

The purpose of this European Standard is to simplify the collection of data for the interchangeability of building hardware on fire resisting and/or smoke control doorsets and/or openable windows. It may enable a door or window manufacturer to have the possibility to fit different building hardware from that which has been tested on his door or openable window against the relevant resistance to fire and/or smoke leakage characteristics mentioned in the European product standard FprEN 16034.

The Hardware Performance Sheet (HPS) therefore is a common checklist for the doorset and/or openable window manufacturer, building hardware manufacturer and/or Notified Bodies.

A Hardware Performance Sheet is a summary of test and extended application evidence (“data sheet”), designed to facilitate the interchangeability of building hardware for application to fire resisting and/or smoke control doorsets and/or openable windows.

The requirements for the classification and use of alternative building hardware are given in EN 14600.

Permitted variations are given in the direct application clauses of the different parts of EN 1634 and in the different parts of EN 15269 (extended application).

These cover (e. g.):

— fixing details,

— increase or decrease of the number of locking points,

— alternative material(s), alternative supplier(s), fitting positions, etc.

A building hardware element can have a positively or negatively influence on the fire resisting class of the doorset or openable window. It is evident that variations in method and material of construction, direction of exposure to fire, size and mass will all have an effect on the overall performance of a doorset and/or openable window.

NOTE 2 For example, during a fire test, all types of doorsets and openable windows bend and deflect. This is due to certain forces and torques and the amount of deflection varies with the material and method of construction used, and also with its design.

The fixing of building hardware to a smoke control doorset may effect its smoke tightness due to cut outs, penetration or specific fixing methods.

It is important to know that by using an alternative element of building hardware there shall be no anticipated decrease or increase in classification for the doorset or openable window on which it is fitted. It is essential to know the type of door or window which the hardware has been tested on and the classifications achieved.

1 Scope

This European Standard applies to all building hardware elements intended to be used on fire resisting and/or smoke control doorsets and/or openable windows.

This European standard specifies templates which shall be used to summarise performance and other relevant information of building hardware elements, relating to existing durability of self-closing, fire resistance and/or smoke control test evidence.

Other performance characteristics required are given in FprEN 16034.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 1154,[1)] *Building hardware — Controlled door closing devices — Requirements and test methods*

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

EN 1634-1, *Fire resistance and smoke control tests for door, shutter and openable window assemblies and elements of building hardware — Part 1: Fire resistance tests for doors, shutters 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 12605, *Industrial, commercial and garage doors and gates — Mechanical aspects — 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 14600, *Doorsets and openable windows with fire resisting and/or smoke control characteristics — Requirements and classification*

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*

FprEN 16034, *Pedestrian doorsets, industrial, commercial, garage doors and windows — Product standard, performance characteristics — Fire resistance and/or smoke control characteristics*

3 Terms and definitions

For the purpose 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

1) This document is currently impacted by the stand-alone amendment EN 1154:1996/A1:2002.