



BSI Standards Publication

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

National foreword

This British Standard is the UK implementation of EN 16035:2012.

The UK participation in its preparation was entrusted to Technical Committee B/538/2, Doors.

A list of organizations represented on this committee can be obtained on request to its secretary.

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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

This European Standard was approved by CEN on 27 October 2012.

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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of an identical text or by endorsement, at the latest by June 2013, and conflicting national standards shall be withdrawn at the latest by June 2013.

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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.