PAS 24:2016

BSI Standards Publication

Enhanced security performance requirements for doorsets and windows in the UK

Doorsets and windows intended to offer a level of security suitable for dwellings and other buildings exposed to comparable risk

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Contents

List of tables

Summary of pages

This document comprises a front cover, an inside front cover, pages i to iv, pages 1 to 84, an inside back cover and a back cover.

Foreword

Publishing information

This Product Assessment Specification (PAS) is published by BSI Standards Limited, under licence from The British Standards Institution, and came into effect on 29 February 2016. It was prepared by Subcommittee B/538/1, *Windows and doors*, under the authority of Technical Committee B/538, *Doors, windows, shutters, hardware and curtain walling*. A list of organizations represented on this committee can be obtained on request to its secretary.

Supersession

This PAS supersedes PAS 24:2012, which is withdrawn.

Information about this document

This PAS has been produced by BSI to provide a method for testing and assessing the enhanced security performance requirements of doorsets and window types intended to resist the levels and methods of attack experienced in the UK and normally associated with the casual or opportunist burglar. It is believed that these attacks are the result of an opportunity presenting itself with no particular regard to the likely reward that success might bring. Burglary attempts covered by this document are likely to avoid noise and unnecessary risk. As risk is associated with time, the period spent attempting to gain entry is limited.

For both doorsets and windows it offers two routes to demonstrating suitable security performance.

For doorsets, one route is based on the traditional UK test methods detailed in previous editions of PAS 24 and the other is a European approach based on BS EN 1627. In both cases, cylinders and associated security hardware are subjected to additional assessment against attack methods seen in the UK.

For windows, one method of demonstrating suitable security performance is based on BS 7950. The other method is based on BS EN 1627.

It is recognized that, within a free and open market, the controls that can be applied to such assessments and claims might not be adequate to offer the degree of assurance that is expected of the types of products specified in this PAS. Particularly in view of the security nature of this PAS, users are therefore strongly advised to consider the desirability of third-party certification, inspection and testing. Appropriate conformity attestation arrangements are described in BS EN 45011, for example.

Users seeking assistance in identifying appropriate assessment bodies or schemes may ask BSI to forward their enquiries to the relevant association.

This PAS is not to be regarded as a British Standard. It will be withdrawn upon publication of its content in, or as, a British Standard.

This PAS covers doorsets and windows of all material types. Products are required to meet the material specific requirements as covered by the product standards for doorsets and windows such as BS 7412, BS 4873, BS 6510, BS 8529 and BS 644. Other characteristics such as weathertightness are covered by the BS 6375 series of standards that also references this document.

The distinction between a doorset and a window is based on the intended use as declared by the manufacturer. Products intended for pedestrian access are declared, tested and classified as doorsets in accordance with **4.4** of this standard.

This is a full revision of the standard, and introduces the following principal changes:

- the scope has been widened;
- text has been amended to allow for easy egress hardware on all doorsets;
- the cutting test has been made more practical;
- the classification has been simplified; and
- more robust requirements have been introduced for letter plates.

Presentational conventions

The provisions of this standard are presented in roman (i.e. upright) type. Its requirements are expressed in sentences in which the principal auxiliary verb is "shall".

Commentary, explanation and general informative material is presented in smaller italic type, and does not constitute a normative element.

Contractual and legal considerations

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

Compliance with a British Standard cannot confer immunity from legal obligations.

1 Scope

This Product Assessment Specification specifies test methods and acceptance criteria relevant to the enhanced security performance of doorsets and windows intended to resist attack normally associated with the casual or opportunistic burglar.

It is applicable to doorsets and windows listed in a) and b) below.

Standard loading cases for use with Annex B and Annex C have been prepared for the following products.

a) Windows: singular and multilight:
   1) top hung, side hung, bottom hung, butt hinged;
   2) top and side hung projected;
   3) top hung and side hung fully reversible;
   4) tilt and turn and turn and tilt;
   5) vertical and horizontal sliding;
   6) fixed and fixed casements (dummy vents);
   7) parallel opening;
   8) double opening (French windows);
   9) vertical and horizontal pivot.

b) Doorsets:
   1) single and double leaf;
   2) single and double swing;
   3) hinged;
   4) sliding (single and multi-track);
   5) pivot;
   6) folding sliding (single and multi-track);
   7) stable;
   8) with or without integral side panels and fanlights.

The security performance requirements in this PAS are not material specific.

This PAS is applicable to new window and doorsets as manufactured and prior to installation. It is only applicable to complete window and doorsets or a range thereof.

The ability to gain entry by manipulation of a lock cylinder is addressed in this PAS. Entry by deliberate breaking of the glass, lock picking using tools only available to a locksmith, attack on electrical controls, electronic components and electrical supply or by attack on the frame fixing methods is not addressed. This PAS does include a requirement for the infill medium material.

This PAS is not a test of component performance or installation requirements.