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PAS 24:2022+A1:2024



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

bsi.

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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 30 September 2022. 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 the committee manager.

Supersession

PAS 24:2022+A1:2024 supersedes [PAS 24:2022](#), which is withdrawn.

Information about this document

Text introduced or altered by Amendment No. 1 is indicated in the text by tags [A1](#) [A1](#). Minor editorial changes are not tagged.

[PAS 24:2022](#) was a full revision of the PAS, and introduced the following principal changes:

- clarification of test methods;
- introduction of widely available tools in Tool Group B; and
- updating of references to proprietary standards.

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](#) (now withdrawn). The other method is based on [BS EN 1627](#).

For doorsets and windows tested in accordance with [BS EN 1627](#), users of this PAS are advised to consult the Secured by Design document [1].

Product certification/inspection/testing. Users of this PAS are advised to consider the desirability of third-party certification, inspection and testing of product conformity to this PAS. Appropriate conformity attestation arrangements are described in [BS EN ISO/IEC 17065](#). Users seeking assistance in identifying appropriate conformity assessment bodies or schemes may ask BSI to forward their enquiries to the relevant association.

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

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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 PAS.

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Where websites and webpages have been cited, they are provided for ease of reference and are correct at the time of publication. The location of a webpage or website, or its contents, cannot be guaranteed.

Presentational conventions

The provisions of this document 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.

Requirements in this document are drafted in accordance with the *Rules for the structure and drafting of UK standards:2022*, subclause **G.1.1**, which states, “Requirements should be expressed using wording such as: ‘When tested as described in Annex A, the product shall ...’”. This means that only those products that are capable of passing the specified test will be deemed to conform to this document.

Where words have alternative spellings, the preferred spelling of the Shorter Oxford English Dictionary is used (e.g. “organization” rather than “organisation”).

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1 Scope

This Product Assessment Specification specifies test methods (given in [Annex A](#) to [Annex C](#)) 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).

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 by this testing. This PAS does include a requirement for the infill medium material.

NOTE The electrical controls, electronic components and electrical supply can be subject to a mechanical or manual attack as a physical component of the door.

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