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**PAS 24:2022**



**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

	Page
<b>Foreword</b>	<b>iii</b>
1 Scope	1
2 Normative references	2
3 Terms and definitions	2
4 Enhanced security requirements	5
4.1 General	5
4.2 Infill medium requirements	6
4.3 Letter plates	6
4.4 Classification	6
5 Marking	6
6 Design and general requirements	7
6.1 Doorsets	7
6.2 Installation instructions	7
<b>Annex A (normative) Security hardware and cylinder test and assessment</b>	<b>8</b>
<i>Table A.1 — List of tools permitted for use in the assessment of the cylinder</i>	13
<i>Figure A.1 — Typical straight jaw self-gripping pliers</i>	14
<i>Figure A.2 — Typical straight jaw detail</i>	14
<i>Figure A.3 — Typical curved jaw self-gripping pliers</i>	14
<i>Figure A.4 — Typical curved jaw detail</i>	15
<i>Figure A.5 — Typical shallow curve head</i>	15
<i>Figure A.6 — Typical shallow curve head detail</i>	16
<i>Figure A.7 — Typical hook attachment</i>	17
<i>Figure A.8 — Typical hook attachment detail</i>	18
<b>Annex B (normative) Enhanced security performance requirements for doorsets</b>	<b>18</b>
<i>Figure B.1 — Flow chart for doorsets</i>	20
<i>Figure B.2 — Cutting test zones</i>	25
<i>Figure B.3 — Parallel-to-plane loading along the edge</i>	32
<i>Figure B.4 — Parallel-to-plane loading at right angles to the edge</i>	33
<i>Figure B.5 — Parallel-to-plane loading at a mullion or transom</i>	34
<i>Figure B.6 — Perpendicular-to-plane loading</i>	35
<i>Figure B.7 — Example of a suitable test bracket</i>	36
<i>Figure B.8 — Outer frame support</i>	37
<i>Figure B.9 — Loading pad for mechanical loading</i>	38
<i>Figure B.10 — Example of loading bridge</i>	39
<i>Figure B.11 — Soft body impact test apparatus</i>	40
<i>Figure B.12 — Hard body impact test apparatus</i>	41
<i>Figure B.13 — Mechanical loading sequence: single and multiple leaf</i>	42
<i>Figure B.14 — Soft and heavy body impact points: single and multiple leaf</i>	42
<i>Figure B.15 — Hard body impact points and sequence: single and multiple leaf</i>	43
<i>Figure B.16 — Example of propping case for folding sliding doors</i>	44
<i>Table B.1 — Standard loading cases for single leaf doorsets without integral side panels or fanlights</i>	45
<i>Table B.2 — Standard loading cases for single leaf doorsets with integral side panels or fanlights</i>	46
<i>Table B.3 — Standard loading cases for all double doors, active and inactive leaf without integral side panels or fanlights</i>	49
<i>Table B.4 — Standard loading cases for all double doors, active and inactive leaf with integral side panels or fanlights</i>	51

This is a preview of "PAS 24:2022". [Click here to purchase the full version from the ANSI store.](#)

	<i>integral side panels or fanlights</i>	54
	<i>Table B.6 — Standard loading cases for horizontal sliding doors, active and inactive leaves without integral side panels or fanlights</i>	56
<b>Annex C</b>	<b>(normative) Specification for enhanced security performance of windows</b>	<b>58</b>
	<i>Figure C.1 — Flow chart of test procedures</i>	59
	<i>Figure C.2 — Typical test arrangement</i>	66
	<i>Figure C.3 — Test sample mounting</i>	67
	<i>Figure C.4 — Parallel-to-plane loading along the edge</i>	68
	<i>Figure C.5 — Parallel-to-plane loading at right angles to the edge</i>	69
	<i>Figure C.6 — Parallel-to-plane loading at a mullion or transom</i>	70
	<i>Figure C.7 — Perpendicular-to-plane loading</i>	71
	<i>Figure C.8 — Typical test bracket</i>	73
	<i>Figure C.9 — Typical outer frame support</i>	74
	<i>Figure C.10 — Typical mullion and transom support</i>	75
	<i>Figure C.11 — Typical loading pad</i>	76
	<i>Figure C.12 — Typical loading bridge</i>	77
	<i>Figure C.13 — Typical installation of test window into timber sub-frame</i>	78
	<i>Figure C.14 — Typical loading sequences</i>	78
	<i>Figure C.15 — Local configuration for a typical vertical sliding window</i>	81
	<i>Table C.1 — Standard loading cases</i>	83
	<b>Bibliography</b>	<b>86</b>

### Summary of pages

This document comprises a front cover, an inside front cover, pages I to IV, pages 1 to 86, an inside back cover and a back cover.

This is a preview of "PAS 24:2022". [Click here to purchase the full version from the ANSI store.](#)

# 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

This PAS supersedes [PAS 24:2016](#), which is withdrawn.

## Information about this document

This is a full revision of the PAS, and introduces 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 and operational strength, are covered by the BS 6375 series of standards that also references this document.

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manufacturer. Products intended for pedestrian access are declared, tested and classified as doorsets in accordance with [4.4](#) of this PAS.

This publication can be withdrawn, revised, partially superseded or superseded. Information regarding the status of this publication can be found in the Standards Catalogue on the BSI website at [bsigroup.com/standards](https://bsigroup.com/standards), or by contacting the Customer Services team.

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 PAS 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 PAS are drafted in accordance with the *Rules for the structure and drafting of UK standards:2017*, 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 PAS.

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

### **Contractual and legal considerations**

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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.