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BS 7412:2024



BSI Standards Publication

**Windows and doorsets – Unplasticized
polyvinyl chloride (PVC-U) extruded
hollow profiles – Specification**

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Foreword

Publishing information

This British Standard is published by BSI Standards Limited, under licence from The British Standards Institution, and came into effect on 30 April 2024. 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 these committees can be obtained on request to the committee manager.

Supersession

This British Standard supersedes [BS 7412:2007](#), which is withdrawn.

Information about this document

This is a full revision of the standard, and introduces the following principal change: the inclusion of non-welded corners.

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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.

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 British Standard specifies requirements for the design, fabrication and performance of windows and glazed doorsets made from PVC-U extruded hollow profiles.

This British Standard applies to windows and doorsets manufactured from PVC-U hollow profiles.

It applies to windows and doors fabricated into frames in a factory, to be installed vertically (within 15°) into the external face of buildings, as single or multi-light units, in coupled assemblies when appropriate, of the following types:

- a) windows:
 - 1) hinged: side-hung (open in or out), top-hung (open out), bottom-hung (open in), tilt and turn or turn before tilt;
 - 2) projecting: side-hung (open in or open out) and top-hung (open out or reversible);
 - 3) pivoted: horizontal and vertical (hung centrally or off-centre) including reversible;
 - 4) sliding: horizontal and vertical;
 - i) side-hung: fully reversible;
 - ii) fixed light;
- b) doors:
 - 1) single leaf single-swing doors with or without side lights and top panels;
 - 2) double leaf single-swing doors with or without side lights and top panels.

It is applicable to assemblies in which any frame member is not longer than 3 m. It does not apply to curtain walls that span across horizontal structural members of floors but is applicable to windows within a curtain walling system.

It is applicable to assemblies up to the point of installation.

NOTE Guidance on the evaluation of conformity is given in [Annex A](#). Guidance on durability and recycling is given in [Annex B](#).

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes provisions, or limits the application, of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

Standards publications

[BS 4255-1](#), *Rubber used in preformed gaskets for weather exclusion from buildings – Part 1: Specification for non-cellular gaskets*

[BS 6100-0:2010](#), *Building and civil engineering – Vocabulary – Part 0: Introduction and index*

[BS 6100-6](#), *Building and civil engineering – Vocabulary – Part 6: Construction parts*

[BS 6100-11:2007](#), *Building and civil engineering – Vocabulary – Part 11: Performance characteristics, measurement and joints*

[BS 6100-12:2008](#), *Building and civil engineering – Vocabulary – Part 12: Plant, equipment and persons*

[BS 6262](#) (all parts), *Glazing for buildings*