

This article is an advance notice of the content to be included in Premier Guarantee's upcoming 2023 Technical Manual.

Provision of information

A full set of design drawings and specifications shall be made available to the warranty provider and all other interested parties prior to the associated works starting on site. The following should be available:

- A full specification (including fixings) of the windows and doors
- Product certifications or manufacturers' accreditations that support the windows and door systems (if applicable)
- Details of sealing around the frame will need to be confirmed
- Evidence to be provided windows are suitable for exposure e.g. a manufacturer's declaration of performance for the site
- Provide details confirming weather-tightness rating as detailed within BS 6375
- Where timber windows are specified, timber and other wood based materials need to comply with the relevant requirements of BS EN 942
- Bespoke timber windows and doors must also provide a detailed specification of the design, construction, and durability of the proposed units

To prove and demonstrate performance and adequacy, documentation required is typically a valid UKAS (or European equivalent) third-party accreditation (e.g. British Board of Agrément, BRE, etc.).

Please note, this guide must be read in conjunction with the relevant guidance in our [Technical Manual](#).

In all circumstances, the Technical Manual version applicable to your development should be used.

Gaps around windows

Gaps around windows and doors should be sized to allow for thermal movement and this will vary depending on the material of the frame.

Material	Recommended gap per side for width of structural openings (mm)		
	Less than 1.5m	1.5m – 3.0m	3.0 – 4.5m
Upvc –white	5	5	7.5
Upvc-non-white	7.5	7.5	11
Timber	5	5	5
Steel	4	5	6
Aluminium	5	5	7.5

The maximum gap permitted for openings less than 3m should be 10mm. For openings more than 3m, the maximum gap permitted should be 15mm. Please refer to the manufacturer's guidance for further clarification.

For gaps greater than 5mm, a backing strip should be provided behind the sealant and the sealant should have a minimum depth of 6mm.

Please note, for timber framed and LGSF buildings, gaps under window and door openings will also need to be provided to cater for differential movement between the timber frame/LGSF and the external brickwork. For further guidance please refer to the Timber frame or LGSF section of the Technical Manual.

Sealants

Thermally insulating filling materials should be applied to the perimeter gap around the frames (such as PU foam, or impregnated tapes). Perimeter joints need to be continuously sealed on both the outside and the inside of the frames. Sealants should be appropriate to:

- The frame surface
- The substrate material
- Joint size and configuration
- Anticipated joint movement
- Anticipated weather exposure conditions

Wet sealants (e.g. silicones) should be tested and classified in accordance with BS EN ISO 11600.

When using impregnated tapes, over-capping with a wet sealant is generally not required – manufacturer's instructions should be followed.

In situations where the sealant will rely on atmospheric moisture to begin curing then deep filling should be avoided.

When applying sealant:

- Apply against a firm backing, forcing it against the sides of the joint
- It should not be applied to the backing as this restricts lateral movement of the joint
- Any gaps greater than 6mm require a closed-cell oversized polyethylene (PE) foam backing rod be included
- A width to depth ratio of between 1:1 and 2:1 should be observed
- When applying a fillet joint a minimum 6mm contact to non-porous, and 10mm to porous substrates should be achieved
- Seal should be provided between any sill and frame, with a barrier created at ends of the sill

Finishing trims

The use of proprietary surface fixed finishing trims e.g. D-moulds, should be undertaken only as part of a designed junction between window and door framing and the surrounding opening.

For this purpose, surface finishing trims:

- Must be compatible with the materials used within the frame
- Must be robust in their attachment
- Must not be detrimental to the performance of the junction e.g. create thermal bridging
- Must not impede the function or operation of the window or any attached fittings e.g. obstructing trickle vents, framing drainage outlet

The inclusion of finishing trims should not be considered as a means to:

- Achieve weather tightness, unless they are included within appropriate weather and water tightness testing conducted on the window and door system
- Extend frame dimensions where windows are undersized for the opening. Only recognised sections that form part of the window system can be used for this purpose e.g. proprietary or manufactured interlocking sections ('knockons'), or manufacturer led alterations using fixed sections (adhesively bonded planted sections).

Warranty stance

Gaps around windows need to be carefully considered in line with this guide and the manufacturer's installation instructions. In addition, the use of sealants and finishing trims need to be carefully considered so the integrity of the waterproof envelope is maintained.

Please note, this guide must be read in conjunction with the relevant guidance in our [Technical Manual](#).

In all circumstances, the Technical Manual version applicable to your development should be used.

*Every care was taken to ensure the information in this article was correct at the time of publication (August 2022). Guidance provided does not replace the reader's professional judgement and any construction project should comply with the relevant Building Regulations or applicable technical standards. For the most up to date Premier Guarantee technical guidance please refer to your Risk Management Surveyor and the latest version of the [Premier Guarantee Technical Manual](#).
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