

# FENESTRA WINDOWS AND DOORS

## PURPOSE

Fenestra Windows and Doors are external uPVC windows and doors for external joinery applications in residential and commercial buildings.

## EXPLANATION

Fenestra Windows and Doors are fabricated in Christchurch using VEKA Plastics extrusions. The joinery units are made from uPVC insulated frames with an internal structural steel profile. The units are available in double and triple glazing with an Argon gas filled air space and are suitable in all environmental conditions.

All windows and doors are supplied with glazing in accordance with NZS 4223.3:2016 *Glazing in buildings - Part 3: Human impact safety requirements*.

The units are supplied in standard joinery configurations including:

<b>Windows</b>	Awning	Casement	Bifold	Stackers	Sliding	Tilt & turn
<b>Doors</b>	Hinged French	Bifold	Stacker	Sliding	Tilt & turn	

The external face of the uPVC joinery is coated in a PVDF acrylic in a range of colours and textures.



For further assistance please contact:

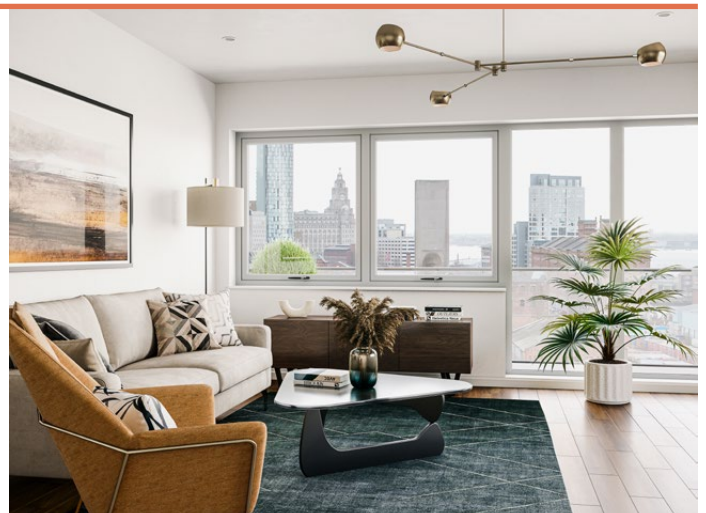
-  0800 008 819
-  [info@fenestra.co.nz](mailto:info@fenestra.co.nz)
-  [fenestra.co.nz](http://fenestra.co.nz)

## SCOPE AND LIMITATIONS OF USE

Scope	Limitations
<p><b>Location</b></p> <p>In all wind zones up to and including extra high as defined in NZS 3604:2011 or to a calculated design wind pressure of 2.1 kPa.</p> <p>In all exposure zones as defined in NZS 3604:2011, including areas within 500 m of a coastline.</p> <p>Greater than 1 m from a relevant boundary.</p>	
<p><b>Building</b></p> <p>In conjunction with buildings where the primary structure complies with the NZ Building Code (NZBC) or for an existing structure where the designer and installer are satisfied that the existing framing is suitable for the intended building work.</p> <p>In conjunction with a timber or lightweight steel frame or a composite panel material where specifically designed.</p> <p>As glazed external windows and doors.</p>	<p>➤ The openings must be prepared in accordance with the requirements of the <i>WANZ Guide to Window Installation as described in E2/AS1 Amendment 10, V1.7 [23/11/2022]</i>.</p>
<p>In conjunction with a cladding system that complies with the NZBC.</p>	

## CONDITIONS OF USE

Fenestra Windows and Doors must be designed and specified in accordance with SNZ TS 4211:2022 *Specification for classification of windows* and installed in accordance with the *WANZ Guide to Window Installation as described in E2/AS1 Amendment 10, V1.7 [23/11/2022]* for preinstallation and all VEKA and Fenestra Window Systems requirements.



## USEFUL INFORMATION

For design, installation and maintenance information, refer to [fenestra.co.nz](http://fenestra.co.nz).

## PERFORMANCE CLAIMS

If designed, installed and maintained in accordance with all VEKA and Fenestra Window Systems requirements, Fenestra Windows and Doors will comply with or contribute to compliance with the following performance claims:

NZ Building Code clauses	Compliance statement	BASIS OF COMPLIANCE Demonstrated by
<b>B1 STRUCTURE</b> B1.3.1, B1.3.2, B1.3.3 (a), (h) and (j), B1.3.4	ALTERNATIVE SOLUTION	➤ Tested in accordance with AS/NZS 4420.1:2016, cited in SNZ TS 4211:2022 [Intertek, 08/06/2023a, b, c].
<b>B2 DURABILITY</b> B2.3.1 (b)	ALTERNATIVE SOLUTION	➤ 8000 hours age testing after artificial weathering in accordance with GB/T 8814-2004 by an ilac and CNAS accredited laboratory [National Test Centre of Polymer and Chemical Building Materials, 5/08/2010].
<b>E2 EXTERNAL MOISTURE</b> E2.3.2	ALTERNATIVE SOLUTION	➤ Tested in accordance with AS/NZS 4420.1:2016, cited in SNZ TS 4211:2022 [Intertek, 08/06/2023a, b, c].
<b>F2 HAZARDOUS BUILDING MATERIALS</b> F2.3.2, F2.3.3	ALTERNATIVE SOLUTION	➤ Glazing in accordance with NZS 4223.3:2016.
<b>F4 SAFETY FROM FALLING</b> F4.3.1, F4.3.4	ACCEPTABLE SOLUTIONS F4/AS1 and F9/AS1	➤ Specification of restrictors in accordance with F4/AS1 and F9/AS1.
<b>F9 MEANS OF RESTRICTING ACCESS TO RESIDENTIAL POOLS</b> F9.3.4		
<b>G4 VENTILATION</b> G4.3.1, G4.3.3	ACCEPTABLE SOLUTION or VERIFICATION METHOD G4/AS1 or G4/VM1	➤ Specification in accordance with G4/AS1 or G4/VM1.
<b>G6 AIRBORNE AND IMPACT SOUND</b> G6.3.1	ALTERNATIVE SOLUTION	➤ Sound Insulation Prediction. Assessed at STC 30 on panel mass 19.7 kg/m <sup>2</sup> [INSUL, 22/05/2023].
<b>G7 NATURAL LIGHT</b> G7.3.1, G7.3.2	ACCEPTABLE SOLUTION or VERIFICATION METHOD G7/AS1 or G7/VM1	➤ Specification in accordance with G7/AS1 or G7/VM1.
<b>H1 ENERGY EFFICIENCY</b> H1.3.1, H1.3.2E	VERIFICATION METHOD H1/VM1 or H1/VM2	➤ U-value w/m <sup>2</sup> K based on Guardian Calculator [METRO Performance Glass, 22/05/2023].

## SOURCES OF INFORMATION

- Intertek. [02/06/2023a] VEKA Plastics (Singapore) Pte Ltd. Test Report Number. 230506005SHF-001
- Intertek. [02/06/2023b] VEKA Plastics (Singapore) Pte Ltd. Test Report Number. 230506005SHF-002
- Intertek. [02/06/2023c] VEKA Plastics (Singapore) Pte Ltd. Test Report Number. 230506005SHF-003
- INSUL. [22/05/2023] Sound Insulation Prediction (v8.0.4). File name. Acoustic Report - 4-16-4 - STC 30.ixl.
- National Test Centre of Polymer and Chemical Building Materials. [5/08/2010] Age Testing after artificial weathering. Test Report Number 2010(X) 1317-1.

1. Where a standard is referenced it is to be read as amended by the acceptable solution or verification method as applicable. 2. Sources of information also include the Building Act 2004 and its regulations, including the Building Code (Schedule 1 of the Building Regulations 1992), Acceptable Solutions and Verification Methods, and relevant cited standards. 3. The product is not subject to a warning or ban under section 26 of the Building Act. 4. For overseas manufacturer details, where applicable, refer to the company that is the holder of this pass™. 5. The quality and assurance that the supplied products meet the performance claims stated in this pass™ are the responsibility of the company that is the holder of this pass™. 6. The availability of the information about the supplied products required to be disclosed under s14G(3) is the responsibility of the company that is the holder of this pass™.

SCAN OR CLICK THIS QR CODE TO ACCESS OR REQUEST THE RELEVANT SUPPORTING DOCUMENTATION FOR THIS PASS™.

[fenestra.co.nz](https://fenestra.co.nz)



Fenestra Window Systems Ltd confirms that if Fenestra Windows and Doors are used in accordance with the requirements of this pass™ the product will comply with the NZ Building Code and other performance claims set out in this pass™ and the company has met all of its obligations under s14G(2) of the Building Act.

**Date of first issue:** 11/09/2023

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**NZBN:** 9429051237158

*Kevin Brunton*

Kevin Brunton, Technical Director, TBB confirms that the process used to prepare this pass™ on behalf of Fenestra Window Systems Ltd has been undertaken in accordance with MBIE PTS guidelines and in accordance with the TBB pass™ process which is within the scope of TBB's ISO 9001 certification.

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