



SD Aluminium Awning Window Systems

Designated Building Product - Class 2
BPIR Declaration - V1. 08.2025

Declaration

SD Aluminium Limited has prepared this declaration to meet the requirements of Schedule 1(d) of the Building (Building Product Information Requirements) Regulations 2022.

This declaration applies to the *Aluminium Awning Window Systems* as a designated building product, Class 2.

It confirms that the information provided is based on our technical documentation, manufacturing processes, and supporting evidence, and is, to the best of our knowledge, accurate and complete at the time of publication.

Product / System

Name - **SD Aluminium Awning Window Systems**
Identifier - Outward Opening Awning Window System
Line -

Description

The Aluminium Window System provides a versatile range of window configurations, engineered to deliver durability, weathertightness, and energy efficiency. Units are custom-fabricated to project requirements, combining high-performance insulated glass units (IGUs) with precision-extruded aluminium frames.

- *Awning windows open outward from the top, offering controlled ventilation and protection from rain ingress.*
- *Fixed glazing panels provide unobstructed views and daylight, and may be floor-to-ceiling or partial height.*
- *Suite configurations can be achieved by combining awning and fixed units into a single frame, delivering both ventilation and transparency.*

Scope Of Use

The Aluminium Window System is intended for use in residential housing, multi-unit apartments, and light commercial buildings up to three storeys or 10 m in height. The system offers flexibility for a wide range of architectural designs and project requirements.

- Suitable for both timber-framed and aluminium-framed construction, with adaptable installation detailing.
- Can be fabricated as stand-alone awning sashes for ventilation, or as full-height fixed glazing panels for uninterrupted views.
- Windows may be combined into suite arrangements, such as fixed glazing with integrated awning sashes to allow both daylight and airflow.
- Commonly used in living areas, bedrooms, kitchens, stairwells, and corridors, where natural light and controlled ventilation are desirable.
- Can be installed in upper or lower storeys, including high-level positions for ventilation while maintaining privacy.
- Suitable for use in all NZ wind zones up to Extra High, when fabricated to project specifications.
- Frames and glazing selections can be adapted to meet thermal, acoustic, and aesthetic requirements, ensuring suitability for both standard and high-performance residential projects.
- Units may be installed as stand-alone windows or combined with sliding and hinged door systems, creating larger façade arrangements with sidelites and overlights.

Installations Requirements

The Aluminium Window System must be installed by competent tradespeople in accordance with SD Aluminium installation specifications and approved shop drawings. Correct preparation and handling are essential to ensure weathertightness, structural stability, and long-term durability.

- Frames must be installed plumb, level, and square in prepared openings.
- Secure mechanical fixings must be used, suitable for timber, steel, or aluminium substrates.
- Sealants, sill trays, and flashings must be fitted to manage external moisture effectively.
- Glazing must be installed in accordance with NZS 4223, with IGUs seated on setting blocks and correctly sealed.
- All weep holes and drainage paths must remain unobstructed after installation.

Conditions Of Use & Limitations

The Aluminium Window System is designed for residential and light commercial applications. It provides flexibility for a range of building designs while requiring appropriate consideration of site conditions.

- Suitable for buildings up to three storeys or 10 m in height.
- Configurations include awning sashes, fixed glazing, and multi-panel window suites.
- May be used as stand-alone units or combined with door systems, sidelites, or overlights.
- Not recommended for heavy-use industrial or commercial environments.
- Site-specific engineering is required for applications outside the standard scope, such as high-rise or extreme exposure zones.
- Regular maintenance of seals, frames, and hardware is required to preserve performance.

Relevant Building Code Clauses

B1	Structure	<i>B1.3.1, B1.3.2, B1.3.3(c, f, h, j, m), B1.3.4</i>
B2	Durability	<i>B2.3.1(a), B2.3.2(a, b)</i>
C4	Movement to Safety in Fire	<i>C4.3</i>
D1	Access Routes	<i>D1.3.3(b, d, e)</i>
E2	External Moisture	<i>E2.3.2</i>
E3	Internal Moisture	<i>E3.3.4</i>
F2	Hazardous Building Material	<i>F2.3.1, F2.3.3</i>
F4	Safety of Users	<i>F4.3.1</i>
F9	Barriers	<i>F9.3.1</i>
G4	Ventilation	<i>G4.3.1</i>
G7	Natural Light	<i>G7.3.1</i>
H1	Energy Efficiency	<i>H1.3.1</i>

Contributions To Compliance

The SD Aluminium Window & Door System contributes to compliance with the following New Zealand Building Code (NZBC) clauses, when installed in accordance with manufacturer instructions and good trade practice:

- *B1 Structure – Window frames and sashes are engineered to withstand imposed wind pressures in accordance with NZS 4211, contributing to compliance with Clause B1.*
- *B2 Durability – Aluminium profiles, powder-coated finishes, and glazing components achieve the 15–50 year durability requirement of Clause B2.*
- *C4 Movement to Safety in Fire – Openable sashes and fixed glazing may be incorporated into a building’s escape strategy as designed by the building practitioner, supporting Clause C4.*
- *D1 Access Routes – Where used as part of an accessible route, windows contribute to compliance when designed in accordance with NZS 4121.*
- *E2 External Moisture – Installed in accordance with SD Aluminium details, systems resist external moisture ingress and support Clause E2.*
- *E3 Internal Moisture – Properly sealed frames and glazing reduce internal condensation transfer, supporting Clause E3.*
- *F2 Hazardous Building Materials – Aluminium, powder coatings, and glazing are non-hazardous and meet Clause F2.*
- *F4 Safety of Users – Safety glass is installed to NZS 4223 in areas subject to human impact, supporting Clause F4.*
- *F9 Barriers – When windows are incorporated into barrier assemblies, compliance with Clause F9 is achieved through appropriate specification.*
- *G4 Ventilation – Operable window sashes provide natural ventilation, contributing to Clause G4.*
- *G7 Natural Light – Glazed units admit natural light into habitable spaces, supporting Clause G7.*
- *H1 Energy Efficiency – Thermal performance assessed to achieve R0.5, contributing to Clause H1.*

Further technical information to support compliance is available from SD Aluminium upon request.



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Maintenance Requirements

To ensure ongoing performance, durability, and compliance with the New Zealand Building Code, SD Aluminium Window and Door Systems require regular inspection and maintenance. The following guidelines apply to all installations:

- **Cleaning:** Aluminium frames, tracks, and sashes should be cleaned with mild detergent and fresh water at least every 6 months in urban environments, and more frequently in coastal or industrial locations. Avoid abrasive cleaners or solvents that may damage the powder-coated finish.
- **Drainage:** Keep all drainage holes, rebates, and tracks clear of dirt, sealant, or debris to maintain correct water performance and prevent moisture build-up.
- **Hardware:** Hinges, rollers, stays, and locks should be inspected annually, cleaned, and lubricated with a light, non-staining oil or silicone spray to ensure smooth operation.
- **Seals and Gaskets:** Inspect weather seals and gaskets regularly for signs of wear, shrinkage, or displacement. Replace where necessary to maintain airtightness and moisture resistance.
- **Glass:** Clean glazing with mild, non-abrasive glass cleaner. Check for scratches, cracks, or edge damage that could reduce structural performance or safety.
- **Coatings:** Inspect powder-coated surfaces periodically. Any scratches or damage to the surface finish should be repaired promptly to maintain corrosion resistance and aesthetic appearance.
- **Fasteners and Fixings:** All fixings should be checked at regular intervals to confirm they remain tight and secure. Replace corroded or damaged fasteners with equivalent stainless steel or approved alternatives.
- **Professional Servicing:** Where performance issues arise or significant damage is observed, servicing should be carried out by qualified personnel to ensure compliance with manufacturer requirements.



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Company Information

Legal name of the manufacturer: SD Aluminium Ltd
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