



SD Aluminium Sliding Door 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 Sliding Door 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 Sliding Door System**
Identifier - Sliding Door - Single Panel System, Sliding Door - Stacker System
Line -

Description

The Aluminium Sliding Door System is designed to provide expansive openings and seamless transitions between indoor and outdoor spaces. A variety of configurations are available, from simple single sliders to multi-panel suites incorporating awning windows or fixed sidelites.

- *Single sliding doors are compact, space-saving solutions for smaller openings.*
- *Stacker doors feature two or more panels sliding behind each other to achieve wide openings.*
- *Bi-parting sliding doors meet at the centreline, allowing maximum opening flexibility.*
- *Integrated awning windows and fixed sidelites can be combined to form versatile door suites.*

All systems are manufactured from precision-extruded aluminium, finished with powder coating, and glazed with IGUs selected for thermal and acoustic performance.

Scope Of Use

The Aluminium Sliding Door System is suitable for residential housing, apartments, and light commercial buildings up to three storeys or 10 m in height. Designed to maximise openings and enhance indoor–outdoor connections, it provides a wide variety of layout possibilities.

- Available as single sliding doors for compact spaces, stacker doors with multiple sliding panels for wide-span openings, or bi-parting sliding doors that meet centrally to create an expansive clear opening.
- Can be installed in ground floor and upper-level applications, including patios, decks, and balconies.
- May be fabricated with integrated fixed sidelites, overlights, or awning windows, forming sliding door suites to meet specific project requirements.
- Ideal for projects prioritising natural light, ventilation, and seamless indoor–outdoor living.
- Suitable for use in standard residential dwellings, multi-unit developments, and light commercial tenancies where large glazed openings are required.
- Offers flexibility in panel size, track configuration, and layout, allowing designers to match the system to both compact and large-scale openings.
- Provides an effective solution where space-saving operation is required, as sliding panels do not intrude into interior or exterior spaces.
- Systems can be tailored to meet a wide range of aesthetic and performance requirements, including thermal efficiency, acoustic control, and weather resistance. Corrosion is present.

Installations Requirements

The Aluminium Sliding Door System must be installed on stable, level substrates to allow smooth operation and correct drainage. Tracks and panels must be aligned and adjusted in accordance with SD Aluminium specifications.

- Tracks must be securely fixed and level to prevent misalignment.
- Panels must be adjusted on rollers, with guides, seals, and stoppers fitted.
- Drainage channels and weep holes must be kept clear of debris.
- Sidelites, overlights, or integrated awning windows must be supported with appropriate reinforcing where required.
- All hardware, tracks, and rollers must be installed to manufacturer's specifications.

Conditions Of Use & Limitations

Sliding doors are designed for residential and light commercial applications where large glazed openings and indoor–outdoor flow are desired.

- Suitable for use up to three storeys or 10 m in height.
- Configurations include single sliders, stacker systems, and bi-parting centre-opening doors.
- May be combined with sidelites, overlights, or awning windows to form complete suites.
- Not suitable as fire-rated or acoustic-rated systems unless specifically designed for those purposes.
- Not recommended for heavy-use institutional or industrial settings.
- Routine maintenance of frames, rollers, tracks, and seals is required to ensure smooth operation and durability.

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.

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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