SD Aluminium
A8 Canopy System

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 *A8 Canopy System* 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 A8 Canopy System**
Identifier - A8 Canopy System
Line -

Description

The SD Aluminium A8 Canopy System is a heavy-duty aluminium shelter designed for maximum structural capacity and stability. Configurations include post-supported and cantilever designs; carport configurations are not available. Featuring reinforced posts, girders, and gutters, the A8 is available in straight-edge or radius-edge canopy designs, which define the overall roofline profile and visual style. The system uses 4.2 mm solid polycarbonate (PC) roofing for weather resistance and natural light transmission.
The A8 is custom-fabricated to suit project requirements and assembled using SD Aluminium-specified extrusions, connectors, and stainless-steel fixings, finished with exterior-grade powder coating.

* The image above illustrates one example from the **A8 Canopy System**.
Other profiles and configurations are available within this system.

SD Aluminium
A8 Canopy System
BPIR Declaration

Scope Of Use

The A8 Canopy System is a heavy-duty aluminium shelter engineered for maximum strength and stability in demanding conditions. It is designed for post-supported or cantilever configurations and is suited to applications such as large patios, entrance canopies, and commercial outdoor cover areas. The system is custom-built using reinforced SD Aluminium-specified extrusions, fixings, and 4.2 mm solid polycarbonate roofing, and is available in straight-edge or radius-edge canopy designs to provide a distinctive architectural finish.

Configuration Options:

- *One side attached to wall, opposite side with posts (minimum 2 posts required)*
- *Cantilever (no front posts, supported from the rear)*
- *Carport configuration not available*
- *Straight-edge or radius-edge canopy designs, which define the overall roofline profile and visual style*
- *Roofing material: 4.2 mm solid polycarbonate (PC) with UV protection on both faces*

Performance & Compliance:

- *Designed for secure, stable mounting surfaces capable of supporting design loads*
- *Complies with NZ Building Code requirements for Occupancy A, A Other, and C3 Residential*
- *Custom sizing is available to suit specific project requirements*

A secure and stable substrate is essential to ensure the structural integrity and safety of the system. Further installation information is available upon request.

Conditions Of Use

- The SD Aluminium [A3/A5/A8] Canopy System must be fabricated and installed exclusively by authorised fabricators or installers approved by SD Aluminium.
- Only extrusions, components, and hardware supplied or expressly specified by SD Aluminium may be used in the fabrication and installation of the system.
- Unless otherwise stated, all aluminium extrusions, components, and hardware shall conform to 6063-T5 or equivalent alloy specifications.
- All stainless steel components, hardware, and fixings must be manufactured from 316 stainless steel to ensure durability and corrosion resistance in New Zealand environmental conditions.
- The roofing material shall be 4.2 mm solid polycarbonate (PC) sheet with UV protection on both faces, as specified by SD Aluminium. No substitution of roofing material is permitted.
- Surface finishing shall be completed using an exterior-grade powder coating system applied by an approved applicator. Colour selection and coating type must meet SD Aluminium specifications for the intended environment, and warranty conditions shall apply based on coating type and site exposure.
- The system must be installed strictly in accordance with SD Aluminium's fabrication and installation specifications, including maximum allowable spans, post spacing, and fixing requirements for the relevant configuration.
- The substrate or supporting structure must be secure, stable, and capable of withstanding the design loads for the chosen configuration. Where site conditions differ from the standard installation details, project-specific engineering review may be required, including supporting engineering documentation.
- No modifications, substitutions, or deviations from the specified design, components, or installation methods are permitted without prior written approval from SD Aluminium.
- All materials must be stored, handled, and installed in a manner that prevents damage, contamination, or deterioration prior to and during installation.

SD Aluminium
A8 Canopy System
BPIR Declaration

Relevant Building Code Clauses

B1	Structure	*B1.3.1, B1.3.2, B1.3.3(c, f, h, j, m), B1.3.4*
B2	Durability	*B2.3.1(a), B2.3.2(a, b)*
F2	Hazardous Building Material	*F2.3.1, F2.3.3*

Contributions To Compliance

The SD Aluminium [A3/A5/A8] Canopy System has been designed and verified to meet the structural and safety performance requirements of the New Zealand Building Code. Engineering is carried out in accordance with AS/NZS 1170:2002 and relevant parts of NZS 3604 for applicable wind zones. The system complies with:

- *B1 Structure – B1.3.1, B1.3.2, B1.3.3 (c, f, h, j, m), B1.3.4*
- *B2 Durability – B2.3.1 (a), B2.3.2 (a, b)*
- *F2 Hazardous Building Materials – F2.3.1, F2.3.3*

Engineering documentation is available to support compliance with Verification Method B1/VM1 and Acceptable Solutions B2/AS1 and F2/AS1 as relevant.

Wind zone capacity, including maximum allowable spans, post spacing, and cantilever limits, is determined by the SD Aluminium engineering specifications for the selected system and configuration. The system must be installed on secure, stable mounting surfaces capable of supporting the design loads, and in accordance with SD Aluminium's fabrication and installation manuals.

Installation Requirements

The SD Aluminium [A3/A5/A8] Canopy System must be installed on a secure, stable mounting surface capable of withstanding the loads specified in the New Zealand Building Code for Occupancy A, A Other, and C3 Residential. Both post-supported and cantilevered configurations (where applicable to the system) must be installed in strict accordance with SD Aluminium's fabrication and installation manuals.

All posts, beams, rafters, and roofing panels should be assembled to the system specifications, ensuring all fixings are fully tightened and components remain free from damage. Where applicable, bracket and connector adjustments must maintain structural integrity and compliance with height, span, and gap requirements.

Care must be taken to ensure horizontal members remain level, posts are plumb, and the canopy structure is correctly aligned. All cutting, drilling, or modification must be carried out using appropriate tools to prevent damage to the powder-coated finish or polycarbonate panels. Further detailed installation instructions are available upon request.

SD Aluminium
A8 Canopy System
BPIR Declaration

Limitations & Design Requirements

- The SD Aluminium [A3/A5/A8] Canopy System is intended for residential and light commercial applications where compliance with Occupancy A, A Other, and C3 categories is required. It is not designed for crowd-loading environments or for areas subject to heavy industrial use.
- Designers and installers must ensure that post spacing, beam spans, cantilever lengths, and rafter spacing do not exceed the maximum allowable limits set out in the SD Aluminium engineering specifications for the chosen configuration.
- Any deviation from the standard design — such as non-standard materials, additional decorative elements, or structural alterations — must be supported by appropriate project-specific engineering documentation.
- The canopy must be installed on a flat and stable substrate; installations on surfaces prone to movement or significant deflection should be avoided unless appropriately engineered.
- The maximum permissible canopy dimensions and configurations (including cantilever and carport availability) are system-specific and must be confirmed for the [A3/A5/A8] system before installation.

Maintenance Requirements

To maintain the performance, safety, and appearance of the SD Aluminium [A3/A5/A8] Canopy System, regular cleaning and inspection are essential. These steps help preserve the product's finish, ensure continued compliance with the New Zealand Building Code, and extend service life.

- Cleaning frequency: Wash all exposed aluminium and polycarbonate surfaces with mild detergent and rinse thoroughly with fresh water at least every six months in typical urban environments. In coastal, geothermal, or industrial locations where exposure to salt, moisture, or airborne contaminants is higher, clean every three months — or more often if visible deposits appear.
- Inspection: During each cleaning cycle, inspect all fixings, joints, and connections for signs of loosening, corrosion, or wear. Tighten loose fasteners and replace damaged components immediately. Pay special attention to dissimilar metal contact points to avoid galvanic corrosion.
- Surface care: Clean powder-coated aluminium using a soft sponge or cloth — avoid abrasive pads, steel wool, or strong solvents. Any scratches or coating damage should be touched up promptly with colour-matched repair coating.
- Polycarbonate care: Wash panels with mild soapy water and rinse well. Avoid sharp objects or abrasive cleaning tools to prevent scratching. Do not use high-pressure water jets directly on panel edges or seals.
- General: Ensure all gutters and drainage channels remain clear of debris to allow proper water flow and prevent overflow or ponding.

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A8 Canopy System
BPIR Declaration

Company Information

Legal name of the manufacturer:	SD Aluminium Ltd
Manufacture location:	New Zealand
Manufacture address for service:	6 John Glenn Avenue, Rosedale, Auckland 0632
Manufacturer NZBN:	9429047563094
Manufacture website:	www.sdalu.co.nz/

Branch Locations & Contact Deatils

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SD Aluminium
A8 Canopy System
BPIR Declaration

Building code performance clauses

Clause B1 – Structure (Performance criteria)

- **B1.3.1:** *Buildings, building elements and sitework shall have a low probability of rupturing, becoming unstable, losing equilibrium, or collapsing during construction or alteration and throughout their lives.*
- **B1.3.2:** *Buildings, building elements and sitework shall have a low probability of causing loss of amenity through undue deformation, vibratory response, degradation, or other physical characteristics throughout their lives, or during construction or alteration when the building is in use.*
- **B1.3.3:** *Account shall be taken of all physical conditions likely to affect the stability of buildings, building elements and sitework, including: self-weight; imposed gravity loads arising from use; temperature; earth pressure; water and other liquids; earthquake; snow; wind; fire; impact; explosion; reversing or fluctuating effects; differential movement; vegetation; adverse effects due to insufficient separation from other buildings; influence of equipment, services, non-structural elements and contents; time-dependent effects including creep and shrinkage.*
- **B1.3.4:** *Due allowance shall be made for: the consequences of failure; the intended use of the building; effects of uncertainties resulting from construction activities or the sequence in which construction activities occur; variation in the properties of materials and the characteristics of the site; accuracy limitations inherent in the methods used to predict the stability of buildings.*

Clause B2 – Durability

- **B2.3.1:** *Building elements must, with only normal maintenance, continue to satisfy the performance requirements of this code for the lesser of the specified intended life of the building, if stated, or:*
  a. *the life of the building, being not less than 50 years, if those building elements provide structural stability; are difficult to access or replace; or failure would go undetected during normal use and maintenance;*
  b. *15 years if moderately difficult to access or replace, and failure would be easily detected during normal maintenance;*
  c. *5 years if easy to access and replace, and failure would be easily detected during normal use.*
- **B2.3.2:** Individual building elements which are components of a building system and are difficult to access or replace must either:
  a. *all have the same durability; or*
  b. *be installed in a manner that permits the replacement of building elements of lesser durability without removing building elements that have greater durability and are not specifically designed for removal and replacement.*

Clause F2 – Hazardous Building Materials

- **F2.3.1:** *The quantities of gas, liquid, radiation or solid particles emitted by materials used in the construction of buildings, shall not give rise to harmful concentrations at the surface of the material where the material is exposed, or in the atmosphere of any space.*
- **F2.3.2:** *Transparent panels capable of being mistaken for an unimpeded path of travel shall be marked to make them visible. Performance F2.3.2 does not apply to housing.*
- **F2.3.3:** *Glass or other brittle materials with which people are likely to come into contact shall either: (a) if broken on impact, break in a way which is unlikely to cause injury; or (b) resist a reasonably foreseeable impact without breaking; or (c) be protected from impact.*