

Juralco® VelaSun® Outdoor Living System

BPIR Declaration Version 6-24 v1

Designated building product Class 2

Declaration

Juralco Aluminium Building Products Ltd trading as Juralco has provided this declaration to satisfy the provisions of Schedule 1(d) of the Building (Building Product Information Requirements) Regulations 2022.

Product/system

Name	Juralco® VelaSun® Balustrade System
Line	-
Identifier	-

Description

The VelaSun® Outdoor Living System is an ideal solution for extra outdoor shelter for your home. The high quality extruded aluminium structure can be custom powder coated in a colour of your choice. There are three types, Roofless (no infill panels) or two Panel infill types of Grey Polycarbonate panels to give a diffused light inside the enclosure while blocking out most of the heat. Alternatively, Glass panels can be used.

Juralco® VelaSun® Outdoor Living System



BPIR Declaration

Scope of use

Juralco® VelaSun® Outdoor Living System

The Juralco fabricator manual details the documents the Juralco VelaSun® Outdoor Living System refers to in relation to the New Zealand Building Code, the manufacturer's documents, products used in the System, requirements in relation to fixing and surface finishings.

Juralco® VelaSun® Outdoor Living system configurations and sizes are affected by Wind Zone restrictions. For clarification refer to Configurations in the installer manual.

- Custom made
- Can be fixed onto many styles and shapes of homes
- Fitted onto one wall. Minimum 2 legs required
- Fitted onto two walls: Minimum 1 leg required
- Available in the powder coat colour of choice
- Optional extras such as integrated LED lights available
- 3 Configurations: 1. Open (no infill panels) 2. Louvre/Slat or Panel Infill 3. Grey Polycarbonate or Laminated Frosted Glass

VelaSun Polycarbonate:

- Max Depth 4.8m
- Max Post spacing 3.6m
- Max Width 12m
- Max Height 2.9m
- Nominal rafter spacing 800mm

VelaSun Glass:

- Max Depth 4.0m
- Max Post spacing 3.6m
- Max Width 12m
- Max Height 2.9m
- Nominal rafter spacing 600mm

Roofless Pergola VelaSun:

- Max Width 3.6m
- Max Depth 3.6m
- Max Height 2.9m

Conditions of use

- Manufacturer's Documents - The Juralco VelaSun® Outdoor Living System manual details all extrusions and components used for the fabrication and installation/fixing of the system. - Manuals are available from Juralco Aluminium Building Products Ltd 48 Bruce McLaren Rd, Henderson, Auckland Phone 09 478 8018 Fax 09 478 7883 Email specify@juralco.co.nz
- Only extrusions, components and hardware supplied by or specified by JABP may be used in the Juralco VelaSun® Outdoor Living System
- Aluminium extrusions, components and hardware – unless specified are manufactured to 6060 T5 specifications – Stainless Steel components, hardware, fixings – all components to 316 grade
- Glass - all glass used in the Juralco VelaSun® Outdoor Living System must be Laminated or Toughened Safety Glass and conform to the specifications as listed in the Juralco VelaSun® Outdoor Living System manual, with each panel conforming to AS/NZS 2208 as confirmed by the Safety Stamp detailing the manufacturer's description and licence number
- Polycarbonate - Polycarbonate to be VelaGlaze™ 4mm Solid Polycarbonate sheet with 2 x Profiled Edges. UV protected on both faces
- Surface Finishing - Juralco Aluminium Building Products Ltd is a Dulux Registered Applicator site, registration number 2101. JABP uses only Dulux branded powder coating materials - Dulux Duralloy® powder coating systems are suitable for properties greater than 100m from high tide level AAMA 2603 performance. Residential buildings, 3 levels max. Warranty 10 yrs - Dulux Duralloy Plus® powder coating systems are suitable for properties greater than 10m from high tide level. AAMA 2603 performance. Residential and Light commercial buildings, 3 levels max Warranty 15 yrs - Dulux Duratec® powder coating systems are suitable for properties greater than 10m from high tide level AAMA2603 and 2604 performance. All Residential and Commercial buildings. Warranty 25 yrs
- Installation and Fixing - The Juralco VelaSun® Outdoor Living System must only be constructed by our installers in accordance with the Juralco VelaSun® Outdoor Living System manual

NOTE: Important Installation notes:

- 1 - The Project Engineer must ensure the structure can support the appropriate loads**
- 2 –VelaSun structure shown indicatively only**
- 3 - All Fixings must be Stainless steel**
- 4 - Dropdowns not possible**
- 5 – Freestanding or Wall mounted configurations available**

Juralco® VelaSun® Outdoor Living 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
F2	Hazardous building materials	2.3.1, F2.3.3

Contributions to compliance

NZBC Compliance

NZBC Compliance

- The Juralco VelaSun® Outdoor Living System has been reviewed by Lautrec Technology Group Ltd, Engineers.
- Suitable for NZS3604 Low, Medium, High, Very High and Extra High Wind Zones up to Design Wind pressure of 2.5kPa as noted in the fabrication manual detail pages, when attached to buildings within the scope of NZS3604
- The Juralco® VelaSun® Outdoor Living System has been reviewed by Lautrec Technology Group Ltd to demonstrate compliance with the structural requirements of the New Zealand Building Code and B1/VM1: AS/NZS 1170: 2021, AS/NZS 1664.1:1997; NZS AS 1720.1.2022; NZS 3101:2006, NZS 4223.3:2016; NZS 4223.3:2008; NZS 4223.4:2008
- Designed and manufactured in New Zealand, Juralco® VelaSun® Outdoor Living Systems have been engineered and tested by independent engineers to comply with NZS3604:2011 wind zone and snow loading calculations
- Compliance Documents issued by the Ministry of Business, Innovation & Employment
- Juralco has supplied Engineered calculations for the attachment of the Juralco® VelaSun® Outdoor Living System systems to the ground, timber decks, walls, and soffits, all conforming to NZS1170, Appendix D
- The Project Engineer must ensure the structure can support the appropriate loads

Supporting documentation

The following additional documentation supports the above statements:

SH VelaSun Outdoor Living System	6-24 v1	www.juralco.co.nz/assets/Uploads/Eboss/SH-VelaSun-6-24-v1.pdf
Producer Statement Request	6-24 v1	https://ps1.juralco.co.nz/
Juralco Warranty	30 November 2024	www.juralco.co.nz/assets/Juralco-Warranty-Sheet-2022.pdf

For further information supporting Juralco® VelaSun® Outdoor Living System claims refer to our website.

Juralco® VelaSun® Outdoor Living System



BPIR Declaration

Contact details

Manufacture location	New Zealand
Legal and trading name of manufacturer	Juralco Aluminium Building Products Ltd trading as Juralco
Manufacturer address for service	48 Bruce McLaren Rd, Henderson, Auckland 0612
Manufacturer website	www.juralco.co.nz
Manufacturer email	specify@juralco.co.nz
Manufacturer phone number	0508 880 088
Manufacturer NZBN	9429037383664

Responsible person

As the responsible person as set out in Regulation 3, I confirm that the information supplied in this declaration is based on information supplied to the company as well as the company's own processes and is therefore, to the best of my knowledge, correct.

I can also confirm that the Juralco® VelaSun® Outdoor Living System is not subject to a warning or ban under s26 of the Building Act.

Signed for and on behalf of **Juralco Aluminium Building Products Ltd trading as Juralco:**

Grant Boyce

Grant Boyce

Director

November 2024

JURALCO ALUMINIUM BUILDING PRODUCTS LTD TRADING AS JURALCO

48 Bruce McLaren Rd, Henderson, Auckland, 0612, New Zealand

09 478 8018

www.juralco.co.nz

Appendix

BPIR Ready selections

Category: Other (Custom)

Building code performance clauses

B1 Structure

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:

- (c) temperature
- (f) earthquake
- (h) wind
- (j) impact
- (m) differential movement

B1.3.4

Due allowances shall be made for:

- a. the consequences of failure,
- b. the intended use of the building,
- c. effects of uncertainties resulting from construction activities, or the sequence in which construction activities occur,
- d. variation in the properties of materials and the characteristics of the site, and
- e. accuracy limitations inherent in the methods used to predict the stability of buildings.

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:

- the life of the building, being not less than 50 years, if: those building elements (including floors, walls, and fixings) provide structural stability to the building, or those building elements are difficult to access or replace, or failure of those building elements to comply with the building code would go undetected during both normal use and maintenance of the building

B2.3.2

Individual *building elements* which are components of a *building system* and are difficult to access or replace must either:

- all have the same durability
- 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

D1 Access Routes

D1.3.3

Access routes shall:

- (j) Have smooth, reachable, and graspable handrails to provide support and to assist with movement along a stair or barrier
- (k) have handrails of adequate strength and rigidity as required by Clause B1 Structure

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.

F2.3.3

Glass or other brittle materials with which people are likely to come into contact shall:

- 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.

F4 Safety from falling

F4.3.1

Where people could fall 1 metre or more from an opening in the external envelope or floor of a *building*, or from a sudden change of level within or associated with a *building*, a barrier shall be provided.

F9 Means of restricting access to residential pools

F9.3.1

Residential pools must have or be provided with physical barriers that restrict access to the pool or the *immediate pool*

area by unsupervised young children (i.e., under 5 years of age). F9.3.3

A barrier surrounding a *pool* must have no permanent objects or projections on the outside that could assist children in negotiating the barrier. Any gates must

- a. open away from the pool; and
- b. not be able to be readily opened by children; and
- c. automatically return to the closed position after use.