

# Juralco® Edge® Balustrade System

## BPIR Declaration

Version: 8-22 v1

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### Designated building product: Class 2

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### 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.

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### Product/system

<b>Name</b>	Juralco® Edge® Balustrade System
<b>Line</b>	The Juralco® EDGE® Balustrading Systems is an architectural balustrade system designed to provide a wide range of design options in both Glass and Aluminium metal balusters.
<b>Identifier</b>	

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### Description

The Juralco® EDGE® Balustrading Systems is an architectural balustrade system designed to provide a wide range of design options in both Glass and Aluminium metal balusters.

Mounting to a deck can be done in a variety of ways including timber, concrete, steel, and waterproof membranes. Toughened Glass infills can be 6mm or 10mm, either fully framed (6mm) or semi-frameless (10mm) with handrails either top or side mounted.

Toughened 13.2mm Laminated glass can be used for semi-frameless applications. For a more traditional look, Vertical metal infills are available in 17mm sq and 49mm, 60mm and 123mm slats, all in powder coated colour of your choice.

All designs are available with a variety of handrails. Tables are available for various baluster spacings, heights and wind zones. All mountings and installation recommendations conform to the latest AS/NZS1170 and NZS 4223.3.2016 regulations. Our installers are all very experienced and can recommend a balustrading system to fit design requirements and budget.

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## Scope of use

### EDGE® Balustrade

- Domestic and Residential Occupancy types A, A Other and C3 only
- Occupancy Types as per AS/NZ 1170.1.2002.
- Not suitable for Commercial C3 applications
- Balustrade options up to and including Extra High Wind Zone

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## Conditions of use

- Only extrusions, components and hardware supplied by or specified by JABP may be used in the Juralco EDGE® 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 EDGE® Balustrade System must conform to the specifications as listed in the Juralco EDGE® manual with each panel conforming to AS/NZS 2208 as confirmed by the Safety Stamp detailing the manufacturer's description and license number
- The Juralco EDGE® Balustrade System must only be installed in accordance with the Juralco EDGE® Balustrade System manual.
- Any deviation from that specified in the Juralco EDGE® manual must only be in accordance with the Site-Specific PS1 with Site-Specific calculations and drawings listing the non-standard details.
- The Juralco EDGE® Balustrade System must only be fabricated/installed by a Juralco approved fabricator.
- Upon completion of the installation the fabricator must supply the owner with a PS3 (Construction)
- Glass 6mm, 10mm Toughened Safety Glass and 13.2mm Toughened Laminated Glass: Glass must have a minimum strength of 100MPa. All edges polished.
- Juralco Balustrade Systems building code compliance documentation requires all balustrade installations to be completed in accordance with the requirements of an authorised installer certification.
- All Semi Frameless Glass Balustrades must have a Top or Side mounted Handrail to conform to NZS 4223.3.2016, except for 13.2mm Toughened Laminated Glass applications as per the installation manual. Handrails are not necessary for Swimming Pools.

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## 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)

**D1 Access Routes** – D1.3.3 (j, k)

**F2 Hazardous building materials** – F2.3.1, F2.3.3

**F4 Safety from falling** – F4.3.1

**F9 Means of restricting access to residential pools** – F9.3.1, F9.3.3

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## Contributions to compliance

### NZBC Compliance

- The Juralco EDGE® Balustrade System has been reviewed by Lautrec Technology Group Ltd to demonstrate compliance with the structural requirements of the New Zealand Building Code and AS/NZS 1170: 2002 occupancy A, A Other and C3, NZS 3604 Low, Medium, High, Very High and Extra High Wind Zones.
- The Structural Engineering design includes the requirements of B1 Structure, B2 Durability, F2 H hazardous material, and F4 Safety from falling, all from the Building Code.
- Verification Method B1 / VM1, B2/AS1, F4 / AS1
- All glass used in the Juralco EDGE® Balustrade System must conform to AS/NZS 2208.
- Complies with NZS 4223.3.2016
- All mountings and installation recommendations conform to the latest AS/NZS1170 and NZS 4223.3.2016 regulations.
- Complies With AS/NZS 1170:2002, NZS 4223.3.2016, NZ Building Code B1, B2, F2, F4 and F9
- Complies with French Standard NF P01-013 (1988-08)

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## Supporting documentation

The following additional documentation supports the above statements:

<b>BA Edge Balustrade</b>	8-22 v1	<a href="https://www.juralco.co.nz/assets/Uploads/resources/BA-Edge-Balustrade-8-22-v1.pdf">https://www.juralco.co.nz/assets/Uploads/resources/BA-Edge-Balustrade-8-22-v1.pdf</a>
<b>Producer Statement Request</b>	8-22 v1	<a href="https://ps1.juralco.co.nz/">https://ps1.juralco.co.nz/</a>
<b>Juralco Warranty</b>	11 December 2023	<a href="https://www.juralco.co.nz/assets/Files/Juralco-Warranty-Sheet-JUN-2021.pdf">https://www.juralco.co.nz/assets/Files/Juralco-Warranty-Sheet-JUN-2021.pdf</a>

For further information supporting Juralco® Edge® Balustrade System claims refer to our website.

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## Contact details

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

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## 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® Edge® Balustrade 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:**

*Andrew White*

Andrew White  
DIRECTOR  
December 2023

**JURALCO ALUMINIUM BUILDING PRODUCTS LTD TRADING AS JURALCO:**

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# Appendix

## BPIR Ready selections

Category: Balustrades systems

	Yes	No
Use as pool fencing	x	
Provides an accessible handrail	x	
Use of glass or other brittle material	x	

## 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:

- (a) 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:

- (a) all have the same durability
- (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

## 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.