

Juralco® Edgetec® Infinity® Balustrade System

BPIR Declaration Version 03-22v1

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® Infinity® Balustrade System
Line	-
Identifier	-

Description

The Juralco Edgetec Infinity® Balustrade system is designed for Frameless Glass, from 12mm to 17.52mm, either Top or Faced fixed and for Residential or Commercial use. An Interlinking Top Rail (depending on the Glass type) must be used. The system is extremely versatile and can be made in a range of configurations to suit most modern architectural requirements. The Infinity Semi Frameless Glass system features heavy-duty internal clamps at regular intervals all covered by continuous cover extrusions front and back, giving a streamlined minimal look.

Scope of use

EDGETEC® Infinity® Balustrade System

- Domestic and Residential Occupancy types A, A Other and C3 and for
- Commercial Occupancy Types B, E, A Other and C3
- Occupancy Types as per AS/NZ 1170.1.2002 and NZS 4223.3.2016
- Balustrade options up to and including Extra High Wind Zone
- NZ Building Code B1, B2, F2, F4 and F9
- Not suitable for Commercial C1/C2, C5 and D applications

Conditions of use

- Only extrusions, components and hardware supplied by or specified by JABP may be used in the Juralco Edgetec Infinity® Balustrade System
- Aluminium extrusions, components, and hardware – unless specified are manufactured to 6060 T5 specifications
- Stainless Steel components, hardware, fixings – all components to 304 or 316 grade
- Glass - all glass used in the Juralco Edgetec Infinity® Balustrade System must conform to the specifications as listed in the Juralco Edgetec Infinity® Balustrade System manual with each panel conforming to AS/NZS 2208 as confirmed by the Safety Stamp detailing the manufacturer's description and licence number
- The Juralco Edgetec Infinity® Balustrade System must only be installed in accordance with the Juralco Edgetec Infinity® Balustrade System manual
- Any deviation from that specified in the Juralco Edgetec Infinity® Balustrade System manual must only be in accordance with the site-specific PS1 with site-specific calculations and drawings listing the non-standard details
- The Juralco Edgetec Infinity® Balustrade System must only be fabricated/installed by a Juralco approved fabricator
- Upon completion of the installation the fabricator must supply the Council with a PS3 (Construction

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	2.3.1, F2.3.3
F4	Safety from falling	F4.3.1
F9	Means of restricting access to residential pools	9.3.1, F9.3.3

Contributions to compliance

NZBC Compliance

- The Juralco Edgetec Infinity® Balustrade System has been reviewed by Lautrec Technology Group Ltd to demonstrate compliance with the structural requirements of the New Zealand Building Code and NZS 1170: 2002 occupancy A, B, E, A Other and C3, NZS 3604 Low, Medium, High, Very High and Extra High Wind Zones, to a maximum ULS wind load of 2.5kPa
- The Structural Engineering design includes the requirements of B1 Structure, B2 Durability, F2 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 Infinity® Balustrade System must conform to AS/NZS 2208. Complies with NZS 4223.3.2016
- Separation of dissimilar materials (as relates to B2 compliance) have been reviewed. For other combinations refer to NZS 3604:2011 Section 2.3.3 Separation and Section 4 Durability
- Complies With AS/NZS 1170:2002, NZS 4223.3.2016, NZ Building Code B1, B2, F2, F4 and F9

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Supporting documentation

The following additional documentation supports the above statements:

BA Infinity Balustrade	03-22v1	www.juralco.co.nz/assets/Uploads/Eboss/BA-Edgetec-Infinity-Balustrade-3-22-v3.pdf
Producer Statement Request	03-22v1	https://ps1.juralco.co.nz/
Juralco Warranty	02 December 2024	www.juralco.co.nz/assets/Juralco-Warranty-Sheet-2022.pdf

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

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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® Infinity® Balustrade System is not subject to a warning on 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

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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.

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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.

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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.