

Juralco® Viking® Balustrade System

BPIR Declaration

Version: 2-23 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® Viking® Balustrade System
Line	
Identifier	

Description

Juralco® Viking® is an architectural balustrade system designed to provide a wide range of design options in both Glass and Aluminium metal balusters. Options for Viking balustrade configurations include full-height glass, split rail glass, semi-frameless glass, full-height baluster, and split rail baluster.

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 (face) mounted. For a more traditional look, Vertical metal infills are available in 17mm balusters.

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.

Scope of use

Viking® 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

Conditions of use

- Only extrusions, components and hardware supplied by or specified by JABP may be used in the Juralco Viking® System.
- Aluminium extrusions, components, and hardware, unless specified are manufactured to 6060 T5 or T6 specifications.
- Stainless Steel components, hardware, fixings – All components to 316 grade.
- Glass: all glass used in the Juralco Viking® Balustrade System must conform to the specifications as listed in the Juralco Viking® 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 Viking® Balustrade System must only be installed in accordance with the Juralco Viking® Balustrade System manual.
- Any deviation from that specified in the Juralco Viking® manual must only be in accordance with the Site-Specific PS1 with Site-Specific calculations and drawings listing the non-standard details.
- The Juralco Viking® 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).
- All for 6mm and 10mm, Toughened 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.

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

Contributions to compliance

NZBC Compliance

- The Juralco Viking® 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 Wind Zones, up to and including Low, Medium, High, Very High and Extra High.
- The Structural Engineering design includes the requirements of B1 Structure, B2 Durability, F2 Hazardous Materials and F4 Safety from falling, from the Building Code.
- Verification Method B1 / VM1, B2/AS1, F4 / AS1
- All glass used in the Juralco Viking® Balustrade System must conform to AS/NZS 2208.
- Complies with NZS 4223.3.2016
- 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)

Supporting documentation

The following additional documentation supports the above statements:

BA Edge Balustrade	8-22 v1	https://www.juralco.co.nz/assets/Uploads/resources/BA-Edge-Balustrade-8-22-v1.pdf
Producer Statement Request	8-22 v1	https://ps1.juralco.co.nz/
Juralco Warranty	8-22 v1	https://www.juralco.co.nz/assets/Files/Juralco-Warranty-Sheet-JUN-2021.pdf

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

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	https://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 Juralco® Viking® 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.