

Juralco Edgetec® Commercial C3 Balustrade System

BPIR Declaration

Version: 8-22 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 Edgetec® Commercial C3 Balustrade System
Line	
Identifier	

Description

The Juralco Edge® Commercial C3 System can support Glass up to 15mm thick. The system is extremely versatile and can be custom-made in a range of configurations and powder coat colours to meet most modern architectural requirements.

Scope of use

Juralco introduced the Edgetec® Commercial Post balustrade system as a specialist product for commercial settings, including internal and external balconies, retail areas, stairs, and landings.

Designed and manufactured in New Zealand, the Edgetec Commercial Post balustrade has been engineered and tested by independent engineers to comply with NZ standards AS/NZS1170 and is suitable for Occupancy A, B, E, C1/C2, C3 and D Occupancy Types.

Suitable for both 10mm and 15mm heavyweight toughened safety glass Custom made in a range of versatile configurations 5 handrail options Choice of top fix or face fix Hidden face fixings available Site-specific Producer Statements can be arranged for viable jobs — speak to Juralco for detail.

Conditions of use

- Only extrusions, components and hardware supplied by or specified by JABP may be used in the Juralco Edgetec® Commercial C3 Balustrade 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 Edgetec® Commercial C3 Balustrade System must conform to the specifications as listed in the Juralco Edgetec® Commercial C3 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® Commercial C3 Balustrade System must only be installed in accordance with the Juralco Commercial C3 Balustrade System manual.
- Any deviation from that specified in the Juralco Edgetec® Commercial C3 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® Commercial C3 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).

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

Contributions to compliance

NZBC Compliance

- The Juralco Edgetec® Commercial C3 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 B, E, C1, C2, C3 and D, to 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 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 Edgetec® Commercial C3 Balustrade System must conform to AS/NZS 2208.
- Complies with NZS 4223.3.2016

Supporting documentation

The following additional documentation supports the above statements:

BA Edgetec Commercial C3 Balustrade	8-22 v1	https://www.juralco.co.nz/assets/Uploads/resources/BA-Edgetec-Commercial-C3-Balustrade-8-22-v2.pdf
Producer Statement Request	8-22 v1	https://ps1.juralco.co.nz/
Juralco Warranty	11 December 2023	https://www.juralco.co.nz/assets/Files/Juralco-Warranty-Sheet-JUN-2021.pdf

For further information supporting Juralco Edgetec® Commercial C3 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 Edgetec® Commercial C3 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:

48 Bruce McLaren, Henderson, Auckland, 0612, New Zealand
09 478 8018 | <https://www.juralco.co.nz/>

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.