

Juralco Interlinking Rail Systems

BPIR Declaration

Version: 2-22 v2

Designated building product: Class 2

Declaration

Shadelite Industries Limited trading as HomePlus Whangarei 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 Interlinking Rail Systems
Line	
Identifier	

Description

Juralco's Interlinking Rails are designed to be used in conjunction with all Juralco Glass Based Balustrade Systems, i.e., Mini Post, Matador Mini Post, Double Disc, Single Disc, Infinity, PosiGlaze, JH Clamp, EDGE and Viking.

The Juralco Interlinking Rail system is a complete solution for top rail compliance on semi-frameless and frameless glass balustrades. Developed to comply with NZ4233.3.2016 requirements; where an interlinking rail is required for frameless glass barrier, unless the barrier is laminated safety glass with stiff interlayer.

The system includes a choice of round or rectangular interlinking rail styles, specially designed for a slim and sleek finished look, which can be powder coated to match balustrade fixings or joinery. Matching rail joint connectors and end plate fasteners (for structures and posts) are all part of the solution, for easier installation and a stylish top rail solution.

Part of a complete Interlinking Rail system, including gaskets for 12 or 15 mm toughened glass, rail connectors, and end plates for rail attachment to structures or posts. Swivel and 90-degree connectors are also available for the rectangular rails only.

Range includes:

- Specialist gaskets for 12mm and 15mm toughened glass – Make installation easier, whilst maintaining a structural bond to the glass
- Rail connectors for quicker and easier jointing on rectangular top rail. Available in three options:
 - Fixed 90 degree
 - Vertical swivel for staircases or ramps
 - Adjustable horizontal for remaining angles

Scope of use

The installation manual details the documents the Juralco Interlinking Rail 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 finishing.

Conditions of use

- The Juralco Interlinking Rail System manual details all extrusions and components used for the fabrication and installation/fixing of the system.
- A Producer Statement 1(Design) is available. Copies of the above documents 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.
- Any deviation from the standard fabrication or installation/fixing must be accompanied by a site-specific PS1 with site-specific calculations and drawings.
- Only extrusions, components and hardware supplied by or specified by JABP may be used in the Juralco Interlinking Rail System.
- Aluminium extrusions, components, and hardware - unless specified are manufactured to 6060 T5 specifications.
- Stainless Steel components, hardware, fixings - all components to 316 grade.
- Must only be used in conjunction with approved Juralco Balustrade systems.
- The Juralco Interlinking Rail System must only be installed in accordance with the Juralco Interlinking Rail System manual.
- Any deviation from that specified in the Juralco Interlinking Rail 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 Interlinking Rail 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

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

Contributions to compliance

NZBC Compliance

The Juralco Interlinking Rail System has been reviewed by Lautrec Technology Group Ltd to demonstrate compliance with the structural requirements of the New Zealand Building Code. Juralco Frameless and Semi Frameless Balustrade Systems Interlinking Top Rail and Interlinking Rail conform to NZ Standard 4223.3.2016 and Building Code Clause B1.3.4

Supporting documentation

The following additional documentation supports the above statements:

BA Interlinking Rail Manual	2-22 v2	https://www.homeplus.co.nz/assets/Uploads/resources/BA-Interlinking-Rail-Manual-2-22-v2.pdf
Producer Statement Request	2-22 v2	https://ps1.homeplus.co.nz/
HomePlus Warranty	11 December 2023	https://www.homeplus.co.nz/warranty/
Balustrade Care and Maintenance	11 December 2023	https://www.homeplus.co.nz/warranty/care-and-maintenance/balustrade-care-and-maintenance/

For further information supporting Juralco Interlinking Rail Systems claims refer to our website.

Contact details

Manufacture location	New Zealand
Legal and trading name of manufacturer	Shadelite Industries Limited trading as Home Plus Whangarei
Manufacturer address for service	34 Albert Street Whangarei 0110
Manufacturer website	https://www.homeplus.co.nz/find-us/whangarei/
Manufacturer email	whangarei@homeplus.co.nz
Manufacturer phone number	09 438 9452
Manufacturer NZBN	9429040423333

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 Interlinking Rail Systems is not subject to a warning on ban under [s26 of the Building Act](#).

Signed for and on behalf of **Shadelite Industries Limited trading as HomePlus Whangarei**:

Grant Hamilton

Grant Hamilton
OWNER/DIRECTOR
December 2023

SHADELITE INDUSTRIES LIMITED TRADING AS HOMEPLUS WHANGAREI
34 Albert Street Whangarei 0110 New Zealand
09 438 9452 | <https://www.homeplus.co.nz/find-us/whangarei/>

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.