

BPIR DECLARATION

Version 1.0 December 2023



COMPANY DETAILS

Name: Monkeytoe Ltd
Role: Manufacturer & Supplier
NZBN: 9429033967882
Address: 45 Mawhitiwhiti Rd, Normanby 4614, Taranaki, NZ
Website: <https://www.monkeytoe.co.nz/>
Email: sales@monkeytoegroup.com
Phone: 0800 454 808

PRODUCT DETAILS

Building Product Class	1
Product name/line	Guardrail
Product Identifier	Base mounted Handrail, Parapet or Wall Mounted Handrail, Roof Mounted Handrail, Stair mounted Handrail, Walkway Mounted Handrail

PRODUCT DESCRIPTION

Aluminum 3 rail handrail system suited as edge protection for roofs, stairs, walkways, platforms etc.
Can have optional toeboard if required

SCOPE OF USE

- Anywhere a safe working environment is required with a fall risk of 1000mm or greater
- Access routes
- Roof edge protections
- Plant platforms
- Walkways
- Stairs

CONDITIONS OF USE

- Stanchions at max 1400mm centers
- Max 450mm centers between rails
- 6000mm Max extrusion length
- Used with Monkeytoe-designed fixing systems including Roof clips, Plinth, base, and wall mounting systems
- Not suitable for areas where under 6-year-old children frequent
- Does not meet crowd-loading requirements
- Top rail rated to imposed loads of up to 600N
- Not Configured for AS1657- this can be done as an option
- Must be installed by an approved installer and maintained as per Monkeytoe product guides, warranty and maintenance documentation.

ASSOCIATED PRODUCTS

Roof Clips

Smartwalk Walkway Systems

Skywalk Walkway Systems

Stair Systems

Plant Platform Systems

RELEVANT BUILDING CODE CLAUSES

B1 Structure: 3.1, 3.3a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r

B2 Durability: 3.1b

D1 Access Routes: 3.3b, j, k

F2 Hazardous building materials:

F4 Safety From Falling: 3.1, 3.2, 3.4a, b, c, d, e, f, g, h

CONTRIBUTIONS TO COMPLIANCE

- B1: Designed to the following Standards:
 - AS/NZS1170.1-2002
 - AS/NZS 1170.2-2021
 - As/NZS 1170.5-2004
 - AS/NZS1664.1-1997

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- AS/NZS1665-2004
- B1: Manufactured to the following standards:
 - AS/NZS 1886- 1997
 - AS1665-2004
- D1: Monkeytoe Guardrails are designed and tested against AS 1657:2013 which is an acceptable solution as per D1 11.0.1 D1/AS1 Amendment 6, 2017.
- B2: Monkeytoe products have a proof of durability as per B2/VM1 with testing and in-service history and similar materials. For more information see the document B2 DURABILITY FOR EXTERNAL ALUMINUM STRUCTURES ON BUILDINGS.
- F2: This product contains no hazardous materials
- F4: Monkeytoe handrails meet the F4/AS1 1.2.2 Acceptable solution by having no less than 460 mm vertically between longitudinal rails.

SUPPORTING DOCUMENTATION

The following documentation supports the above statements:

Title (Type)	Version, Date	Date
B2 DURABILITY FOR EXTERNAL ALUMINUM STRUCTURES ON BUILDINGS	2.1	17/11/2023
PS1 for Handrails	1	08/03/2021
HR040 Walkway Side Stanchion Install Guide	2004-HR-I-01	05/10/2022
HR024 Base Mounted Handrail Install Guide	2004-HR-I-02	05/10/2022
HR007.4 Offset Wall Mounted Handrail Install Guide	2004-HR-I-03	05/10/2022
HR041 Amplymesh + PM36 Handrail Install Guide	2004-HR-I-05	05/10/2022
HR006 Roof Mounted Handrail Install Guide	2004-HR-I-04	05/10/2022
New Handrail/Guardrail Install Guide	3546-HR-ID01	11/09/2023
Aluminium Handrailing – Spec Sheet	02/09/2021	
HR03 - Base-mounted Handrail – Spec Sheet	02/12/2021	
HR02 – Parapet or Wall-mounted Handrail – Spec Sheet	02/12/2021	
HR01 – Roof-mounted Handrail – Spec Sheet	02/12/2021	

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HR04 – Walkway-mounted Handrail – Spec Sheet	15/06/2020	
Tape-down Handrail – Spec Sheet	2/09/2021	
HR05 - Stair-mounted Handrail – Spec Sheet	15/06/2020	

Contact Customer Service sales@monkeytoegroup.com or 0800 454 808 for a copy of the above documents

FOR FURTHER INFORMATION

For all design, installation and maintenance related information please refer to: www.monkeytoe.co.nz.

RESPONSIBLE PERSON

In accordance with Regulation 8, as the responsible person 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 Monkeytoe Ltd products are not subject to a ban under s26 of the Building Act.

Signed for and on behalf of **Monkeytoe Ltd:**

Jamieson Prestidge

Job Role: Technical Consultant

Date 20/11/2023

Jamieson Prestidge

APPENDIX

Building code performance clauses

All relevant building code performance clauses listed in this document:

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.

B1.3.3

Account shall be taken of all physical conditions likely to affect the stability of buildings, building elements and sitework, including:

(a) self-weight,

- (b) imposed gravity loads arising from use,
- (c) temperature,
- (d) earth pressure,
- (e) water and other liquids,
- (f) earthquake,
- (g) snow,
- (h) wind,
- (i) fire,
- (j) impact,
- (k) explosion,
- (l) reversing or fluctuating effects,
- (m) differential movement,
- (n) vegetation,
- (o) adverse effects due to insufficient separation from other buildings,
- (p) influence of equipment, services, non-structural elements and contents,
- (q) time dependent effects including creep and shrinkage, and
- (r) removal of support.

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:

- (b) 15 years if:
 - (i) those building elements (including the building envelope, exposed plumbing in the subfloor space, and in-built chimneys and flues) are moderately difficult to access or replace, or
 - (ii) failure of those building elements to comply with the building code would go undetected during normal use of the building but would be easily detected during normal maintenance.

D1 Access Routes

D1.3.3

Access routes shall:

- (b) be free from dangerous obstructions and from any projections likely to cause an obstruction,
- (j) have smooth, reachable and graspable handrails to provide support and to assist with movement along a stair or ladder,
- (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.

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.

F4.3.2

Roofs with permanent access shall have barriers provided.

F4.3.4

Barriers shall:

- (a) be continuous and extend for the full extent of the hazard,
- (b) be of appropriate height,
- (c) be constructed with *adequate* rigidity,
- (d) be of *adequate* strength to withstand the foreseeable impact of people and, where appropriate, the static pressure of people pressing against them,
- (e) be constructed to prevent people from falling through them, and
- (f) *[Revoked]*
- (g) restrict the passage of children under 6 years of age when provided to guard a change of level in areas likely to be frequented by them.
- (h) be constructed so that they are not readily able to be used as seats.