

Company;	Protector Alumir	Protector Aluminium Pty Ltd							
Product Name;	Aluminium Balus	Aluminium Balustrade							
Type and/ or use of Product;	Certified for use	Certified for use as Aluminium Balustrade							
Description of Product;	Aluminium UltiM8 Balustrade Panel								
Performance Requirements;	Actions				General Principles (Clause 4.2 and Appendix B – Table B1)				
	AS/NZS 1170.1: actions	2002 St	ructural design	(Clause 3.6, Ta	osed and other actions ble 3.3)				
	AS 4055:2012 V	Vind Act	ions	Wind Class N3					
BCA (2019);	No.	Date	Title	Title		Volume Two			
	AS/NZS 1170 Part 0	2002	Structural design actions — General principles (incorporating amendments 1, 3 and 4) Structural design actions — Permanent, imposed and other actions (incorporating amendments 1 and 2)		BV1 B1.1 Spec B1.2	V2.1.1 3.0.2 3.5.1.0			
	AS/NZS 1170 Part 1	2002			B 1.2	3.0.3 3.0.4 3.9.1.2 3.9.1.3 3.9.2 3.9.2.3			

Limitations and Conditions

With regards to strength and/or rigidity of Balustrade, this Supplier Statement limits compliance to the following extent:

- 1 Table 3.3 of AS/NZS 1170-2002 for the following classifications;
 - For a Category 'A' Domestic and residential activities- Other Residential (see C3).
 - For a Category 'B, E' Offices and work areas not included elsewhere including storage areas- Fixed platforms, walkways, stairways and ladders for access (see NOTE 2).
 - For a Category 'C3" Areas without obstacles for moving people and not susceptible to overcrowding-Stairs, landings, external balconies, edges of roofs etc.

Note All classifications with equal or lower load specifications may be applied to this sample. For more information as to their specific use please see Table 3.3 of AS/NZS 1170.1-2002

- 2 Limitations- Not suitable for use as a pool barrier as per AS1926.1-2012
- This Product Technical Statement is issued based on the evidence of compliance as detailed herein. Any deviation from the specifications contained in this Product Technical Statement is outside of this documents scope and the installation of the certified product/ system will not be covered by this PCME Supplier Statement. This may result in product being classified as a non-conforming building product/ system

Issue Date: 5th December 2020 Expiry Date: 6th December 2021



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Product Technical Data											
Building Classification/s;	1a, 2, 3, 4, 5,	6, 7, 8, 9, 10)								
Type and intended use of a product;		As per Page 1 (Protector Aluminium Balustrade System Product Technical Statement)									
Description of product;	Aluminium Ba	alustrade									
Product specification;	As per AS/NZS 1170.1 Table 3.3; Type A Type B & E Type C3 As per AS/NZS 1170.0 Wind Actions This barrier is suitable for wind speeds up to 51 m/s Wind Class N3 as per AS 4055 As per AS/NZS 1170.0 Wind Actions This barrier is suitable for wind speeds up to 51 m/s Wind Class N3 as per AS 4055										
	Topography Effect										
	Maximum Slopes	Location On Hill (Zone)	Mid Third	Top Third	10m <h<30m h="">30m</h<30m>	OverTop	_				
	≤ 1:20 Very Flat	то	то								
	≥ 1:20 to ≤ 1:10 Flat	TO		то		11	то				
	≥ 1:10 to ≤ 1:7.5 Small Hill	TO		11	1 12	T2	то				
	≥ 1:7.5 to ≤ 1:5 Medium Hill	T3									
	≥ 1:5 to ≤ 1:3 Big Hill	T4	12								
	≥ 1:3 Cliff	10		12	74	TS	73				
	H = height of the hill, ridge or escarpment (m)										

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Wind Classification System from AS 4055:2012 Wind Loads for Housing

Wind	Terrain Category	Topographic class												
region		то		п		T2		Т3		T4	T5			
		FS	PS	NS	FS	PS	NS	FS	PS	NS	PS	NS	NS I	NS
A	3	NI	NI	N1	NI	N2	N2	N2	N2	N2	N3	N3	N3	N4
	2.5	N1	N1	N2	N1	N2	N2	N2	N3	N3	N3	N3	N4	N4
	2	N1	N2	N2	N2	N2	N3	N2	N3	N3	N3	N3	N4	N4
	1.5	N2	N2	N2	N2	N3	N3	N3	N3	N3	N3	N4	N4	N5
	1	N2	N3	N3	N2	N3	N3	N3	N3	N4	N4	N4	N4	N5
В	3	N2	N2	N3	N2	N3	N3	N3	N3	N4	N4	N4	N4	N5
	2.5	N2	N3	N3	N3	N3	N3	N3	N4	N4	N4	N4	N5	N5
	2	N2	N3	N3	N3	N3	N4	N3	N4	N4	N4	N5	N5	N6
	1.5	N3	N3	N4	N3	N4	N4	N4	N4	N4	N5	N5	N5	N6
	1	N3	N4	N4	N4	N4	N4	N4	N5	N5	N5	N5	N6	N6
С	3	C1	C1	C2	Cl	C2	C2	C2	C2	C3	C3	C3	C3	C4
	2.5	C1	C2	C2	C2	C2	C2	C2	C3	C3	C3	C3	C4	N/A
	2	C1	C2	C2	C2	C2	C3	C2	C3	C3	C3	C4	C4	N/A
	1.5	C2	C2	C3	C2	C3	C3	C3	C3	C4	C4	C4	N/A	N/A
	1	C2	C3	C3	C3	C3	C3	C3	C4	C4	C4	N/A	N/A	N/A
D	3	C2	C3	C3	C2	C3	C3	C3	C4	C4	C4	C4	N/A	N/A
	2.5	C2	C3	C3	C3	C3	C4	C3	C4	C4	C4	N/A	N/A	N/A
	2	C3	C3	C4	C3	C4	C4	C4	C4	N/A	N/A	N/A	N/A	N/A
	1.5	C3	C4	C4	C4	C4	N/A	C4	N/A	N/A	N/A	N/A	N/A	N/A
	1	C3	C4	C4	C4	N/A	N/A							

Legend: FS = Full Shielding

PS = Partial Shielding
NS = Non-Shielding
N = Non-Cyclonic
C = Cyclonic

N/A = Not available, refer to AS1170.2:2002

Wind Regions of Australia

Design working life	e 25yrs/ Max avg he	ight of 10m				
Australian Wind	Ultimate	Importance Level	Terrain Category	Design Wind		
Region	Regional Wind			Speed (m/s)		
	Speed (m/s)					
Region A	45	1	2	41.11		
		2	2	43.06		
Region B	56.94	1	2	45.56		
		2	2	49.44		
Region C	68.89	1	2	56.11		
		2	2	60.83		
Region D	87.78	1	2	69.44		
		2	2	75.83		

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UltiM8 Balustrade Panel with Post 2000 wide (including fixed post) x 1010mm high

Spacings for Balustrade Panels with post;

- 19 pickets per panel
- Pickets 16mm x 1.6mm tube
- 98.6mm space between picket centres
- Top Rail 50mm x 25mm
- Bottom Rail 38mm x 25mm
- Post 50mm x 50mm
- Base Plate 100mm x 100mm x 8mm



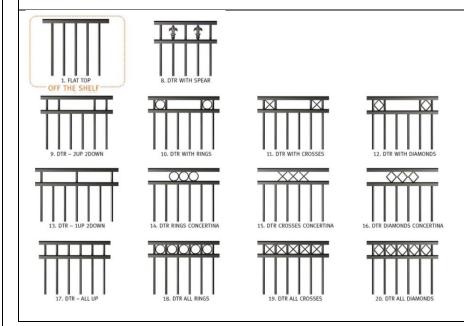
UltiM8 Balustrade Custom Panels

Note:

- Any panel that exceeds 2000mm wide must have a fixed centre post
- Panels can be manufactured as infill panels not exceeding 2000mm width (without a fixed post)

Spacings for Balustrade Panels:

- Pickets 16mm x 1.6mm tube
- 98.6mm space between picket centres
- Top Rail 50mm x 25mm
- Bottom Rail 38mm x 25mm
- Post 50mm x 50mm
- Base Plate 100mm x 100mm x 8mm



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Accessories for UltiM8 Balustrades

Posts;

50 x 50 x 1010mm End Post (Flanged) 50 x 50 x 1010mm Corner Post (Flanged)

Panel Brackets; 50 x 25mm Handrail 38 x 25mm Bottom Rail









End Post Flanged

Corner Post Flanged

50 x 25mm Panel Bracket (Top Rail)

38 x 25mm Panel Bracket (Bottom Rail)

Installation
requirements;

Installations of these products are outside the scope of this Product Technical Statement. Each State in Australia has its own regulations regarding balustrade and must installed in accordance to the relevant Structural/ Civil Engineers specifications, Building Codes, Australian/ New Zealand Standards, Regulations and Legislations.

It is recommended that this product be installed by a suitably qualified tradesperson or competent DIY Persons.

The finished balustrade must be inspected and approved by a certified Building Inspector/ Surveyor or Building Authority.

Protector Aluminium Balustrade Installation Guide

https://www.protectoraluminium.com.au/pdf/howtoinstallbalustrades105x297mmAUS-2020v1Web.pdf

Josh and Jenna "How to Install Balustrades" Installation Video https://www.youtube.com/watch?list=PL57vvNA5uoTtrKZcMZ_KZ2AKf2-MO 676&v=5li8JyR2Usq

Fixings for UltiM8 Balustrades refer BVT Engineering "Design of Balustrade Systems"

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Evaluation Statements

Evaluation methods;

PCME Certifications has followed the following procedures for compiling of Protector Balustrade Product Technical Statement:

- Assessment of the Protector Aluminium products
- Assessing a product quality plan for the Protector Group (Protector Aluminium Pty Ltd) that conforms to ISO10005; and
- Reviewing testing of samples supplied to ascertain whether the product meets the performance requirements specified on this Technical Statement; and
- Conducting site audits of the Protector Group Head Office to verify compliance of the Protector UltiM8 Balustrade system

Note; The Product Technical Statement Holder has chosen not to make the above evidence of compliance publicly available, due to the documents being considered commercial confidence. For validation of the mentioned test reports Building Authority must contact the Technical Statement Holder directly.

Reports;

a) BVT Engineering Professional Services
Design of Balustrade Systems

Project Name: 1.0m Balustrade Aluminium Balustrade System

Test samples as per loads specified in 'Clause 3.6, Table 3.3 of AS 1170.1-2002' and combination factors as specified in Clause 4.2 of AS/NZS 1170.0:2002

Certificate of Compliance
Date: 20th November 2020

Result: PASS

b) Testing Laboratory: Scope Testing Pty Ltd Nata Accreditation No. 15147

> Balustrade Glass HR520 Split Core Test Report; AZT0600.19

Test samples as per loads specified in 'Clause 3.6, Table 3.3 of AS 1170.1-2002' and combination factors as specified in Clause 4.2 of AS/NZS 1170.0:2002 by the test methods specified in specified in Appendix B + C of AS1656-2018

Date: 4th December 2019

Result: PASS

Issue Date: 5th December 2020 Expiry Date: 6th December 2021



Scope of Supplier Technical Statement:

The PCME (Product Compliance Made Easy) Product Technical Statement is to confirm that the relevant requirements of the Building Code of Australia (BCA) as claimed have been met. The responsibility for the product performance and its fitness for the intended use remain with the Supplier Technical Statement Holder. PCME Certification ensures all requirements to be classed as "Product Technical Statement", as per the National Construction Code for demonstrating compliance are fulfilled.

Disclaimer:

The scheme Owner, Scheme Administrator do not make any representations, warranties or guarantees, and accepts no legal liability whatsoever arising from or connected to, the accuracy, reliability, currency or completeness of any material contained within this certificate; the Scheme Owner, Scheme Administrator disclaim to the extent permitted by law, all liability (including negligence) for any claims of losses, expenses, damages and costs arising as a result of the use of the product(s) referred to in this Supplier Technical Statement.

Note: This Product Technical Statement is only valid when reproduced in its entirety.

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Signature

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