Product Technical Statement

Company;	Protector Aluminium and Glass Pty Ltd	
Product Name;	The Architects Choice	
Type and/ or use of product;	Certified for use as a Swimming Pool Barrier *Note: Compliant to pool & balustrade requirements for falls above 1m but below 4m when using the balustrade hand rail system from the Architects Choice balustrade system. Refer PTS 100119*	
Description of product;	Glass Pool Fencing- "Semi Frameless, Chisel Mini Post and Slimline Mini Post"	
Performance Requirements;	AS1926.1-2007/2012	Section 3 Loading Requirements
	AS1288-2021	Safety Glazing material
	AS2208-1996	Appendix E Fragmentation test
	AS/NZS-1170.1:2002	Balustrade loads
	AS/NZS-1170.2:2021	Wind Loads
	AS/NZS-1720.1:2022	Timber Substrate Fixings
	AS5216:2021	Concrete Anchor Design
BCA (2022);	Volume Two	H7D2

Limitations and Conditions

1 With regards to strength and/or rigidity of Safety Barriers for Swimming Pools, this Supplier Statement limits compliance with AS1926.1, AS1288 to the following extent**;**

AS1926.1 – 2012:	Pool Barrier Loads and geometry
AS1926.1 – 2007:	Compliance with the test for Strength and Rigidity of Barrier Openings and the Strength Test for Rigid Barrier Components Only.
AS1926.1 – 1993:	Compliance with the test for Strength and Rigidity of Barrier Openings and the Strength Test for Rigid Barrier Components Only.
AS1288-2021:	Swimming Pool Barriers/ Fences. Where glass is used in a barrier/ fence to a swimming pool area, the glass used shall be Grade A safety glass and shall comply with other relevant requirements of this Standard
	Identification of Safety Glass
	Original Panels
	Maximum Areas of Safety Glass

	Type of Glazing	Nominal Thickness (mm)	Maximum area (m2)
Grade A Safety Glass	Toughened and toughened laminated glass	3	1.0
		4	2.2
		5	3.0
		6	4.0
		8	6.0
		10	8.0
		12	10.0
		>12	Extrapolate

*Safety glazing material Grade A or Grade B to AS/NZS 2208

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AS/NZS1170.1-2002:

Requirements from AS/NZS 1170.1:2002 have been derived for barriers for Occupancy Type C3 as per Table 3.3 and also covers the requirements of types A, B and E.
The requirements are listed in Table 1 below.
Note these loads are less severe than the wind loads.

Load	Description
0.75 kN/m	Horizontal top edge load
0.35 kN/m	Vertical top edge load
0.6 kN	Point load - inwards, outwards or downwards
0.5 kPa	Horizontal
0.25 kN	Point load - any direction

Table 1. Barrier loads considered for conformance with AS/NZS 1170.1:2002

AS/NZS1170.2-2021:

Semi-Frameless

Barrier height (mm)	Glass span (mm)	Allowable wind speed, Vdes (m/s)	Applicable wind region (assuming Vdes = VSit)	Pressure (kPa)
1000	990	65	Wind Region A	3.70
1000	1250	58	Wind Region C	2.95
1000	1500	53	Wind Region B	2.46
1000	1750	49	Wind Region B	2.10
1000	2000	46	Wind Region B	1.85
1300	990	51	Wind Region B	2.28
1300	1250	45	Wind Region B	1.77
1300	1500	41	Wind Region A	1.47
1300	1750	38	Wind Region A	1.26
1300	2000	36	Wind Region A	1.14

Table 6. Required glass thickness for Semi-Frameless

Chisel Minipost

Barrier height (mm)	Glass span (mm)	No of spigots required	Allowable wind speed, Vdes (m/s)	Applicable wind zone (assuming Vdes = VSit)	Pressure (kPa)
1000	990	4	70	Wind Region D	4.29
1000	1250	5	70	Wind Region D	4.29
1000	1500	6	70	Wind Region D	4.29
1000	1750	7	70	Wind Region D	4.29
1000	2000	8	70	Wind Region D	4.29
1300	990	7	72	Wind Region D	4.54
1300	1250	9	72	Wind Region D	4.54
1300	1500	10	70	Wind Region D	4.29
1300	1750	12	71	Wind Region D	4.42
1300	2000	13	69	Wind Region D	4.17
1000	990	3	60	Wind Region C	3.15
1000	1250	4	62	Wind Region C	3.37
1000	1500	4	57	Wind Region C	2.85
1000	1750	5	59	Wind Region C	3.05
1000	2000	6	60	Wind Region C	3.15
1300	990	5	60	Wind Region C	3.15
1300	1250	6	59	Wind Region C	3.05
1300	1500	7	58	Wind Region C	2.95
1300	1750	8	58	Wind Region C	2.95
1300	2000	9	57	Wind Region C	2.85
1000	990	2	49	Wind Region B	2.10
1000	1250	3	54	Wind Region B	2.55
1000	1500	3	49	Wind Region B	2.10
1000	1750	3	45	Wind Region B	1.77
1000	2000	4	49	Wind Region B	2.10

1300	990	3	47	Wind Region B	1.94
1300	1250	4	48	Wind Region B	2.02
1300	1500	5	49	Wind Region B	2.10
1300	1750	5	45	Wind Region B	1.77
1300	2000	6	46	Wind Region B	1.85
1000	1250	2	44	Wind Region A	1.70
1000	1500	2	40	Wind Region A	1.40
1000	1750	2	37	Wind Region A	1.20
1000	2000	2	35	Wind Region A	1.07
1300	990	2	38	Wind Region A	1.26
1300	1250	2	34	Wind Region A	1.01
1300	1500	2	31	Wind Region A	0.84
1300	1750	3	35	Wind Region A	1.07
1300	2000	3	33	Wind Region A	0.95

Table 7. Required glass thickness and number of spigots for Chisel Minipost

Slimline Minipost

Barrier height (mm)	Glass span (mm)	No of spigots required	Allowable wind speed, Vdes (m/s)	Applicable wind zone (assuming Vdes = VSit)	Pressure (kPa)
1000	990	3	69	Wind Region D	4.17
1000	1250	4	72	Wind Region D	4.50
1000	1500	5	72	Wind Region D	4.54
1000	1750	6	73	Wind Region D	4.67
1000	2000	6	70	Wind Region D	4.25
1300	990	5	69	Wind Region D	4.17
1300	1250	7	73	Wind Region D	4.67
1300	1500	8	71	Wind Region D	4.42
1300	1750	9	70	Wind Region D	4.29
1300	2000	10	69	Wind Region D	4.17
1000	1250	3	61	Wind Region C	3.26
1000	1500	4	65	Wind Region C	3.70

1000	1750	4	60	Wind Region C	3.15
1000	2000	5	63	Wind Region C	3.48
1300	990	4	62	Wind Region C	3.37
1300	1250	5	61	Wind Region C	3.26
1300	1500	6	61	Wind Region C	3.26
1300	1750	6	57	Wind Region C	2.85
1300	2000	7	57	Wind Region C	2.85
1000	990	2	56	Wind Region B	2.75
1000	1250	2	50	Wind Region B	2.19
1000	1500	2	46	Wind Region B	1.85
1000	1750	3	52	Wind Region B	2.37
1000	2000	3	48	Wind Region B	2.02
1300	990	3	53	Wind Region B	2.46
1300	1250	3	47	Wind Region B	1.94
1300	1500	4	50	Wind Region B	2.19
1300	1750	4	46	Wind Region B	1.85
1300	2000	5	48	Wind Region B	2.02
1000	1750	2	42	Wind Region A	1.55
1000	2000	2	39	Wind Region A	1.33
1300	990	2	43	Wind Region A	1.62
1300	1250	2	39	Wind Region A	1.33
1300	1500	2	35	Wind Region A	1.07
1300	1750	2	33	Wind Region A	0.95
1300	2000	2	30	Wind Region A	0.79

Table 8. Required glass thickness and number of spigots for Slimline

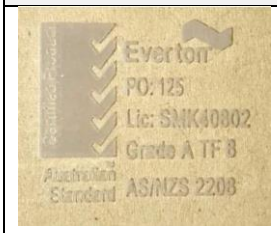
2	Where used as a Safety Barrier of Fencing for Swimming Pools; compliance of the barrier with Section 3.2 (Strength of Posts and Footings) of AS1926.1- 2007 and AS1926.1-1993 and Section 3.5 of AS1926.1-2012 (Strength and Rigidity of a Gate Unit) is to be confirmed to the satisfaction of the Appropriate Authority. *Note: Compliant to pool & balustrade requirements for falls above 1m but below 4m when using the balustrade hand rail system from the Architects Choice balustrade system. Refer PTS 100119*
3	When incorporating a Architects Choice (Branded) Side Pull Latch and Architects Choice (Branded) Glass to Glass Hinges, these meet and exceed all requirements for Durability, Strength and Rigidity, Closing and Latching and Security of Closure requirements for Gate Units of Australian Standard AS 1926.1- 2007/ 2012.
4	For the purposes of this Supplier Statement, the term Appropriate Authority has the meaning defined in the National Construction Code.
5	For Swimming Pool Barriers, the Supplier Statement only applies to the Supplier Statement holders The Architects Choice swimming pool panels as appropriately branded by the Supplier Statement holder.

Product Technical Statement

6	Information contained herein or related hereto is intended only for evaluation by technically skilled persons, with any use thereof to be at their independent discretion and risk. Nothing in this document should be construed as a warranty or guarantee by PCME Certifications, and the only applicable warranties will be those provided by the Supplier Statement Holder.
7	This Supplier Statement is issued based on the evidence of compliance as detailed herein. Any deviation from the specifications contained in this Supplier 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.

Product Technical Data	
Building Classification/s;	1, 2, 3 & 4
Type and intended use of a product;	As per Page 1 (The Architects Choice Supplier Technical Statement) Glass Pool Panels can be used independently or with Semi Frameless, Chisel Mini Post and Slimline Mini Post *Note: Compliant to pool & balustrade requirements for falls above 1m but below 4m when using the balustrade hand rail system from the Architects Choice balustrade system. Refer PTS 100119*
Description of product;	Frameless Glass Pool Fencing and Gate with Semi Frameless, Chisel Mini Post and Slimline Mini Post
Product specification;	Architects Choice 1200 x 1300 x 12mm Glass Pool Panel AC 1043 Architects Choice 1200 x 1200 x 12mm Glass Panel AC 1050 Architects Choice 1200 x 1100 x 12mm Glass Pool Panel AC 1057 Architects Choice 1200 x 1000 x 12mm Glass Pool Panel AC 1064 Architects Choice 1200 x 900 x 12mm Glass Pool Panel AC 1071 Architects Choice 1200 x 800 x 12mm Glass Pool Panel AC 1078 Architects Choice 1200 x 700 x 12mm Glass Pool Panel AC 1085 Architects Choice 1200 x 600 x 12mm Glass Pool Panel AC 1088 Architects Choice 1200 x 500 x 12mm Glass Pool Panel AC 1090 [redacted] Architects Choice 1200 x 1000 x 8mm Glass Gate Panel AC 1092 Architects Choice 1200 x 1000 x 12mm Glass Hinge Panel AC 1095

Architects Choice Glass Pool Panel Glazing Mark (Ref. 1288-2006);
5.23 Identification of Safety Glass); and
5.23.3 Minimum Marking Requirements;



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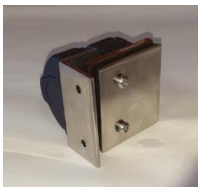
Architects Choice Stainless Steel Hinge Set (AC1015);



Architects Choice Glass to Glass Latch (AC1002);





Architects Choice Semi Frameless Post (AC1512 Joiner Post and AC1526 End Post) and Cast In Aluminium Joiner and End Posts;

Architects Choice Chisel Mini Post- (AC1127), (AC1141), (AC1134), (AC1148);

Architects Choice Slimline Mini Post- Stainless Steel (AC1155), (AC1169);

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Installation requirements;	Each State in Australia has its own regulations in regard to pool fencing and must installed in accordance to AS 1926.1-2012 and AS1926.2-2007 Location of Safety Barriers and AS 1288-2006 Glass in Buildings. It is recommended that this product be installed by a suitably qualified tradesperson or competent DIY person. The finished Pool fence must be inspected and approved by a certified pool inspector or building authority. Refer Fixings below **Semi Frameless System** 1. General information on the installation of this product can be found at: https://youtu.be/dF5UxVe9BD0 2. How to Set Out Semi Frameless Posts Video https://youtu.be/lNmHw16Rt8k 3. How to Install "Semi Frameless Post System" Video https://youtu.be/xM7lRCDaMTQ 4. How to Install The Architects Choice "Pool Gate Latch https://thearchitectschoice.com.au/wp-content/uploads/diy-installation- guides/AC_LatchInstall.pdf 5. How to Install The Architects Choice "Adjustable Tension Hinges" https://thearchitectschoice.com.au/wp-content/uploads/diy-installation-guides/AC_HingeInstall.pdf **Chisel Mini Post System** 1. General information on the installation of this product can be found at: https://thearchitectschoice.com.au/wp-content/uploads/diy-installation-guides/AC_MiniPostinstall_Landscape.pdf 2. How to Set Out Mini Posts Video https://youtu.be/87zkwwodE_U 3. How to Install "Mini Post System" Video https://youtu.be/lNmHw16Rt8k 4. How to Install The Architects Choice "Pool Gate Latch https://thearchitectschoice.com.au/wp-content/uploads/diy-installation-guides/AC_LatchInstall.pdf 5. How to Install The Architects Choice "Adjustable Tension Hinges" https://thearchitectschoice.com.au/wp-content/uploads/diy-installation-guides/AC_HingeInstall.pdf **Slimline Mini Post** 1. General information on the installation of this product can be found at: https://thearchitectschoice.com.au/wp-content/uploads/diy-installation-guides/AC_MiniPostinstall_Landscape.pdf 2. How to Set Out Mini Posts Video https://youtu.be/87zkwwodE_U 3. How to Install "Mini Post System" Video https://youtu.be/lNmHw16Rt8k 4. How to Install The Architects Choice "Pool Gate Latch https://thearchitectschoice.com.au/wp-content/uploads/diy-installation-guides/AC_LatchInstall.pdf 5. How to Install The Architects Choice "Adjustable Tension Hinges" https://thearchitectschoice.com.au/wp-content/uploads/diy-installation-guides/AC_HingeInstall.pdf

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Fixings

Semi-Frameless

Substrate Material	Fixing/per base plate	Minimum Geometric Distance
Steel	4x Stainless Steel 316 M8 Bolt	15 mm (edge distance)
Timber (suitable for joint group J1-J2, JD1-JD3 only)	4x Stainless Steel 316 M8 Bolt*	32 mm (from edge of member) 40 mm (from end of member) **Requires minimum 100x100x6mm steel backing plate on opposite fastening end of timber substrate*
	4x Stainless Steel 316 M8 Coach Screw	40 mm (from edge of member) 80 mm (from end of member) 100 mm (embedment depth)
Concrete	4x M8 Hilti HUS-4/Powers Blue Tip II Concrete Anchor or equivalent	60 mm (embedment depth) 150 mm (concrete thickness) 80 mm (edge distance) Specific design required for overall size

Table 3. Fixing Details for Semi-Frameless

Chisel Minipost

Substrate Material	Fixing/per base plate	Minimum Geometric Distance
Steel	4x Stainless Steel 316 M8 Bolt	15 mm (edge distance)
Timber (suitable for joint group J1-J2, JD1-JD3 only)	4x Stainless Steel 316 M8 Bolt*	40 mm (from edge of member) 100 mm (from end of member) **Requires minimum 100x100x6mm steel backing plate on opposite fastening end of timber substrate*
	4x Stainless Steel 316 M8 Coach Screw	40 mm (from edge of member) 80 mm (from end of member) 110 mm (embedment depth)
Concrete	4x M8 Powers Blue Tip II	70 mm (embedment depth)
	Concrete Anchor or equivalent	150 mm (concrete thickness) 80 mm (edge distance) Specific design required for overall size

Table 4. Fixing Details for Chisel Minipost

Slimline Minipost

Substrate Material	Fixing/per base plate	Minimum Geometric Distance
Steel	2x Stainless Steel 316 M10 Bolt	20 mm (edge distance)
Timber (suitable for joint group J1-J2, JD1-JD3 only)	2x Stainless Steel 316 M10 Bolt*	40 mm (from edge of member) 50 mm (from end of member) **Requires minimum 150x120x6mm steel backing plate on opposite fastening end of timber substrate*
	2x Stainless Steel 316 M10 Coach Screw	50 mm (from edge of member) 100 mm (from end of member) 170 mm (embedment depth)
Concrete	2x M10 Hilti HUS-4/Powers Blue Tip II Concrete Anchor or equivalent	105 mm (embedment depth) 150 mm (concrete thickness) 100 mm (edge distance) Specific design required for overall size

Table 5. Fixing Details for Slimline Minipost

Other relevant technical data;

State of Territory Variations;

Deemed to satisfy provisions
H7D2 Swimming Pools
NT- H7D2 (1)
Qld- H7D2(1)

(1) Performance Requirement H7P1 is satisfied for a swimming pool with a depth of water more than 300 mm and which is associated with a Class 1 building, if it has safety barriers installed in accordance with AS 1926.1 and AS 1926.2.

NSW- H7D2 Swimming Pools

(1) Performance Requirement H7P1 is satisfied for a swimming pool with a depth of water more than 300 mm and which is associated with a Class 1 building, if it has safety barriers installed in accordance with— (a) AS 1926.1 and AS 1926.2

Evaluation Statements

Evaluation methods;

PCME Certifications has followed the following procedures for compiling of Protector Premium Architects Choice (branded) Pool Fencing Supplier Statement;

- Assessment of the Architects Choice (branded) Pool Fencing and Gates products
- Assessing a quality plan for the Protector Aluminium and Glass Pty Ltd Pool Fencing and Gates that conforms to ISO1005
- 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 factory to verify compliance of the Protector Aluminium and Glass Pty Ltd Architects Choice Pool Fencing and Gates

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 Product Statement Holder directly.*

Product Technical Statement

Reports;
a) Brevity Project Number: 22083364-03-3 Glass Pool Barrier System- Semi Frameless, Chisel Mini Post and Slimline Mini Post Date of issue: 13th July 2023
b) Certificate of Compliance Regulation 126 Endorsed Engineer- Matthew Bishop Address- Victoria Park Market, Unit 72B, 31A Drake Street, Auckland 1010 RPEQ: 22712 Date of issue: 13th July 2023
c) Form 15 Endorsed Engineer- Matthew Bishop Address- Victoria Park Market, Unit 72B, 31A Drake Street, Auckland 1010 RPEQ: 22712 Date of issue: 13th July 2023
d) Standardsmark Licence SAI Global Manufactured to: AS/NZS 2208:1996- Safety Glazing Materials in Buildings Licence Number- SMK40802 Issued- 4 November 2022 Expires- 15 January 2028

Product Technical Statement

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.

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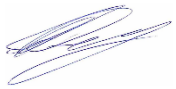
Stefan Ossenberg



PCME Certifications Representative Name **Signature**

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