

Product Technical Statement



Company;	Protector Aluminium and Glass Pty Ltd	
Product Name;	UltiM8 Pool Fencing with G8 Safe/ SafeTech Hardware	
Type and/ or use of product;	Certified for use as a Swimming Pool Barriers and Swimming Pool Barrier with falls more than 1m in height	
Description of product;	Flat Top, Loop Top, Square Picket, Batten, Radiator, Picket Top Pool Fencing, Gates and Gate Hardware	
Performance Requirements;	AS1926.1-2007/2012	Section 3 Loading Requirements
BCA (2022);	Volume One G1P2 (1)	Volume Two - H5P2 Volume Two - H7D2 (1) Housing Provisions – Part 11.3

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 to the following extent;	
	AS1926.1 – 2012:	Compliance with the test for Strength and Rigidity of Barrier Openings and the Strength Test for Rigid Barrier Components Only.
	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.
	AS/NZS1170.1 – 2002	Safety Barriers for Swimming Pools where the height exceeds one meter must comply with the referenced engineering for installation
	AS/NZS1720.1-2022	Design Methods for Timber Structures
	AS/NZS1664.1-1997	Aluminium Structures Part 1 Limit state design (Reconfirmed 2020)
	AS5216-2021	Design of post-installed and cast-in fasteners in concrete
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. <i>Note: UltiM8 Pool Barriers are not designed to withstand the strength, rigidity and loading requirements for balustrade use</i>	
3	When incorporating a G8 Safe (Branded) Top Pull Latch Models; Tri Latch, Pool Safe Latch, Simple Safe Latch this meets and exceeds all requirements 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 Product Technical Statement only applies to the Product Statement holders Ulti-M8 swimming pool panels as appropriately stamped by the Product Statement holder.	

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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 Product Technical Statement Holder.
7	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.

Product Technical Data	
Building Classification/s;	H7D2
Type and intended use of a product;	As per Page 1 (Protector Aluminium Supplier Technical Statement)
Description of product;	Aluminium pool fencing and Gate Hardware
Product specification;	Fence Panel (Up to) 2450mm x 1200mm Custom Manufactured Pool Fence Panel (Up to) 2450mm x 1200mm (1201mm – 1800mm high panels must have a centre rail located at 1200mm height) Gates 975mm x 1200mm Custom manufactured gates (up to 1200mm wide x 1800mm high must have a centre rail located at 1200mm height). <i>Note: Pool fence panels are suitable for use where falls exceed one meter refer to engineering for "How to Install"</i>

UltiM8 Pool Fencing Flat Top Spacing's (Panels and Gates), Post's and Panel Brackets;

Flat Top Spacings for Panels and Gates; <ul style="list-style-type: none"> - Powder Coated Aluminium- Aluminium grade/ temper – 6063/T6 - 6-point welds - 88mm centres - 72mm picket spaces - Pickets – 16mm (internally ribbed tube) - Rails – 38mm x 25mm (internally ribbed tube)
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UltiM8 Pool Panel Loop Top Spacings;

- Powder Coated Aluminium- Aluminium grade/ temper – 6063/T6
- 6-point welds
- 98mm centres
- 82mm picket spaces
- Pickets – 16mm (internally ribbed tube)
- Rails – 38mm x 25mm (internally ribbed tube)



Ulti-M8 Pool Panel Square Picket Spacing's;

- Powder Coated Aluminium- Aluminium grade/ temper – 6063/T6
- 6-point welds
- 100mm centres
- 84mm picket spaces
- Pickets – 16mm
- Rails – 38mm x 25mm (internally ribbed tube)



Ulti-M8 Pool Panel Batten Spacing's;

- Powder Coated Aluminium- Aluminium grade/ temper – 6063/T6
- 6-point welds
- 120mm centres
- 96mm picket spaces
- Pickets – 38x25mm
- Rails – 38mm x 25mm (internally ribbed tube)



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Ulti-M8 Pool Panel Radiator Picket Spacing's;

- Powder Coated Aluminium- Aluminium grade/ temper – 6063/T6
- 6-point welds
- 102mm centres
- 95mm picket spaces
- Pickets – 16mm (internally ribbed tube)
- Rails – 38mm x 25mm (internally ribbed tube)



Ulti-M8 Pool Fencing Accessories;



Fence Panel Brackets



Any Angle Fence Brackets

G8 Safe Pool Compliant Hinges



G8 Safe Fixed Tension
Pool Gate Hinges

SafeTech- SHF-90L



G8 Safe Fixed Tension
Pool Gate Hinges with
Legs

SafeTech- SHF-90L1



Safeklik Pool Gate
Hinges

SafeTech- SHG-90



Safeklik Pool Gate
Hinges with Legs

SafeTech- SHG-90L

Installation requirements;

Installations of these products are outside the scope of this Supplier Technical Statement. Each State in Australia has its own regulations in regard to pool fencing and must be installed in accordance to AS1926.2-2012. It is recommended that this product be installed by a suitably qualified tradesperson. The finished Pool fence must be inspected and approved by a certified pool inspector or building authority.

1. General information on the installation of this product can be found at:
https://www.protectoraluminium.com.au/pdf/HowtoinstallFencing105x297mm_AUS.pdf
2. How to Install around bends
<https://www.protectoraluminium.com.au/wp-content/uploads/2021/07/AroundtheBend.pdf>
3. How to Install G8 Safe "Pool Gate Latch"
<https://www.g8safe.com.au/wp-content/uploads/g8safeLatchgenericinstallA4.pdf>
4. How to Install G8 Safe Adjustable hinges
<https://www.g8safe.com.au/wp-content/uploads/g8safeHingegenericInstallA4.pdf>
5. How to Install G8 Safe Fixed Tension Hinges

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<https://www.g8safe.com.au/wp-content/uploads/g8safe-Hinge-Fixed-tension-Install-A4.pdf>

6. How to Install SafeTech Hardware Pool Gate Latch

<https://www.safetechhardware.com/files/manuals/Magnetic-Pool-Gate-Latches.pdf>

7. How to Install SafeTech Hardware Adjustable Hinges

<https://www.safetechhardware.com/files/manuals/Revolutionary-Adjustable-Tension-Gate-Hinges.pdf>

Fixings

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-J4)	4x Stainless Steel 316 M8 Bolt*	40 mm (from edge of member) 80 mm (from end of member) *Requires minimum 40x40x2.5mm Washer
	4x Stainless Steel 316 M8 Coach Screw	40 mm (from edge of member) 80 mm (from end of member) 60 mm (embedment depth)
Concrete	4x M8 Hilti HUS-4/Powers Blue Tip II Concrete Anchor or equivalent	60 mm (embedment depth) 100 mm (concrete thickness) 40 mm (edge distance) Specific design required for overall size
Soil	800 mm embedment depth into concrete pile	Ø180x900 mm concrete pile Requires full submersion into the ground (clay or sandy soils)

Table 3. Fixing Details for pool fence configuration

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-J3)	4x Stainless Steel 316 M8 Bolt*	40 mm (from edge of member) 80 mm (from end of member) *Requires minimum 40x40x2.5mm Washer
	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) 100 mm (concrete thickness) 40 mm (edge distance) Specific design required for overall size
Soil (2100 mm cast in post or concrete anchor for areas with fall of > 1m)	800 mm embedment depth into concrete pile	Ø200x1050 mm concrete pile Requires full submersion into the ground (clay or sandy soils)

Table 4. Fixing Details for deck barrier configuration

(to be used with Base Plate type: 50x50x3 SHS with welded and threaded screw connection, except cast-in post)

Note: Maximum panel span allowed up to 2450mm.

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Other relevant technical data;	State of Territory Variations; <p>1. NSW H7P1 A barrier must be provided to a swimming pool and must— (a) be continuous for the full extent of the hazard; and (b) be of a strength and rigidity to withstand the foreseeable impact of people; and (c) restrict the access of young children to the pool and the immediate pool surrounds; and (d) have any gates and doors fitted with latching devices not readily operated by young children, and constructed to automatically close and latch.</p> <p>Applications H7P1 only applies to a swimming pool with a depth of water more than 300 mm, in conjunction with the Swimming Pools Act 1992 and the Swimming Pools Regulation 2018.</p> <p>(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; or (b) if the swimming pool is a spa pool— (i) the requirements of (1)(a); or (ii) clause 9 of the Swimming Pools Regulation 2018</p> <p>2. 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.</p> <p>3. NT H7D2 does not apply in the Northern Territory.</p> <p>Note: Restriction of access to swimming pools in the Northern Territory is regulated under the Swimming Pool Safety Act.</p>
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Evaluation Statements

Evaluation methods;	PCME Certifications has followed the following procedures for compiling of the UltiM8 Pool Fencing and Gate Hardware Supplier Statement; <ul style="list-style-type: none">- Assessment of the Protector Aluminium UltiM8 Pool Fencing and Gates products- Assessing a quality plan for Protector Aluminium that conforms to ISO1005; 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 factory to verify compliance of the Safetech Hardware Pool Fencing and Gates
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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.*

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Reports;

a) Azuma Design Pty Ltd (Accreditation Number: 15147);
Report AZT0310.22;
Product – Flat Top Pool Fencing.
Testing to AS 1926.1:2012;
Dated 28/06/2022
Result: PASS

b) Azuma Design Pty Ltd (Accreditation Number: 15147);
Report AZT0311.22
Product – Loop Top Pool Fencing.
Testing to AS 1926.1:2012;
Dated 28/06/2022
Result: PASS

c) Azuma Design Pty Ltd (Accreditation Number: 15147);
Report AZT0312.22
Product – Square Picket Pool Fencing.
Testing to AS 1926.1:2012;
Dated 28/06/2022
Result: PASS

d) Azuma Design Pty Ltd (Accreditation Number: 15147);
Report AZT0313.22
Product – Batten Pool Fencing.
Testing to AS 1926.1:2012;
Dated 28/06/2022
Result: PASS

e) Azuma Design Pty Ltd (Accreditation Number: 15147);
Report AZT0314.22
Product – Radiator Pool Fencing.
Testing to AS 1926.1:2012;
Dated 28/06/2022
Result: PASS

f) Azuma Design Pty Ltd (Accreditation Number: 15147);
Report AZT0315.22
Product – Any Angle Bracket
Testing to AS 1926.1:2012;
Dated 28/06/2022
Result: PASS

g) Azuma Design Pty Ltd (Accreditation Number: 15147);
Report AZT0316.22
Product – 1300 flange Post.
Testing to AS 1926.1:2012;
Dated 28/06/2022
Result: PASS

Azuma Design Pty Ltd (Accreditation Number: 15147);
Report AZT0317.22
Product – 2100 In Ground Post.
Testing to AS 1926.1:2012;

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Dated 28/06/2022
Result: PASS

h) Ian Bennies & Associates NATA Accreditation No. 2371;
Report: 2021-074-S1
Product – Safetech Hardware Magnetic Top-Pull Pool Gate Latch- Keyless (SL-50K, SL-50K-G8, AG8LATCHNL).
Testing to Durability, Strength and Rigidity, Closing and Latching and Security of Closure of Gate Units
Tests to AS1926.1:2012;
Dated November 2021
Result: PASS

i) Ian Bennies & Associates NATA Accreditation No. 2371;
Report #2019-062-S3BL:
Product – Safetech Hardware Magnetic Top-Pull Pool Gate Latch (MTPL).
Testing to Durability, Strength and Rigidity, Closing and Latching and Security of Closure of Gate Units
Tests to AS1926.1:2012;
Dated May 2020
Result: PASS

j) Ian Bennies & Associates NATA Accreditation No. 2371;
Report: 2021-074-S4
Product – Safetech Hardware Tri Latch (TTPL).
Testing to Durability, Strength and Rigidity, Closing and Latching and Security of Closure of Gate Units
Tests to AS1926.1:2012;
Dated November 2021
Result: PASS

k) Ian Bennies & Associates NATA Accreditation No. 2371;
Report: 2021-074-S2
Product – Safetech Hardware Fixed Tension Hinge (SFTH-L and SHF-90L1). Testing to Durability, Strength and Rigidity, Closing and Latching and Security of Closure of Gate Units Tests to AS1926.1:2012;
Dated November 2021
Result: PASS

l) Ian Bennies & Associates NATA Accreditation No. 2371;
Report #: 2021-074-S3
Product – Safetech Hardware Fixed Tension Hinge (SHG-90).
Testing to Durability, Strength and Rigidity, Closing and Latching and Security of Closure of Gate Units
Tests to AS1926.1:2012;
Dated November 2021
Result: PASS

m) Ian Bennies & Associates NATA Accreditation No. 2371; Report #2017-025-S1H: Product – Safetech Hardware Adjustable Tension Hinge (SATH-L). Testing to Durability, Strength and Rigidity, Closing and Latching and Security of Closure of Gate Units Tests to AS1926.1:2012; Dated May 2018
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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.

Stefan Ossenberg

A handwritten signature in blue ink, appearing to read 'Stefan Ossenberg', is positioned above the printed name.

PCME Certifications Representative Name

Signature

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