

Product Technical Statement



| | | |
|-------------------------------------|--|--------------------------------|
| Company; | Protector Premium | |
| Product Name; | The Architects Choice | |
| Type and/ or use of product; | Certified for use as a Swimming Pool Barrier | |
| Description of product; | Glass Pool Fencing- Semi Frameless Post System | |
| Performance Requirements; | AS1926.1-2007/2012 | Section 3 Loading Requirements |
| | AS1288-2021 | Safety Glazing Material |
| | AS2208-1996 | Appendix E Fragmentation test |
| BCA (2019); | Volume One (Amdt. 1) - N/A | Volume Two – 3.10.1(a) |

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: | 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. | | | | | | | | | | | | | | | | | | | | | | | |
| | 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 | | | | | | | | | | | | | | | | | | | | | | | |
| | | <table border="1"> <thead> <tr> <th></th> <th>Type of Glazing</th> <th>Nominal Thickness (mm)</th> <th>Maximum area (m2)</th> </tr> </thead> <tbody> <tr> <td rowspan="8">Grade A Safety Glass</td> <td rowspan="8">Toughened and toughened laminated glass</td> <td>3</td> <td>1.0</td> </tr> <tr> <td>4</td> <td>2.2</td> </tr> <tr> <td>5</td> <td>3.0</td> </tr> <tr> <td>6</td> <td>4.0</td> </tr> <tr> <td>8</td> <td>6.0</td> </tr> <tr> <td>10</td> <td>8.0</td> </tr> <tr> <td>12</td> <td>10.0</td> </tr> <tr> <td>>12</td> <td>Extrapolate</td> </tr> </tbody> </table> | | 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 | |
| | | 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 | | | | | | | | | | | | | | | | | | | | | | | | | |
| AS1170.1-2002 | 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. | | | | | | | | | | | | | | | | | | | | | | | | |

Issue Date: 11th October 2021

Expiry Date: 10th October 2022

Product Technical Statement Number: 100103 Rev 1

Product Technical Statement



| 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: | <p>ULS Wind Loadings</p> <p>The Design Wind Pressure in accordance with AS/NZS 1170.2 Wind Actions, has a pressure of 1.073 kPa. The Semi Frameless complies with AS/NZS1170.2 wind actions and is suitable for the following wind zones:</p> <ol style="list-style-type: none"> Up to 39 m/s for 1300 mm spans. The corresponding wind class according to the ultimate wind speeds in AS 4055 is N1. Up to 45 m/s for 990 mm spans. The corresponding wind class according to the ultimate wind speeds in AS 4055 is N2. |
| 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. |
| 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. |
| 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, 5, 6, 7, 8, 9, 10 |
| Type and intended use of a product; | As per Page 1 (The Architects Choice Product Technical Statement) Glass Pool Panels can be used independently or with Semi Frameless System |

Issue Date: 11th October 2021

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Product Technical Statement Number: 100103 Rev 1

Product Technical Statement



| | | | | | | | | | | | | | | |
|--|---|--|---|--|---|---|--|--|--|--|--|--|--|--|
| Description of product; | Semi Frameless Glass Pool Fencing and Gate | | | | | | | | | | | | | |
| Product specification; | <table border="1"> <tr><td>Architects Choice 1200 x 1300 x 12mm Glass Pool Panel AC 1043</td></tr> <tr><td>Architects Choice 1200 x 1200 x 12mm Glass Panel AC 1050</td></tr> <tr><td>Architects Choice 1200 x 1100 x 12mm Glass Pool Panel AC 1057</td></tr> <tr><td>Architects Choice 1200 x 1000 x 12mm Glass Pool Panel AC 1064</td></tr> <tr><td>Architects Choice 1200 x 900 x 12mm Glass Pool Panel AC 1071</td></tr> <tr><td>Architects Choice 1200 x 800 x 12mm Glass Pool Panel AC 1078</td></tr> <tr><td>Architects Choice 1200 x 700 x 12mm Glass Pool Panel AC 1085</td></tr> <tr><td>Architects Choice 1200 x 600 x 12mm Glass Pool Panel AC 1088</td></tr> <tr><td>Architects Choice 1200 x 500 x 12mm Glass Pool Panel AC 1090</td></tr> <tr><td> </td></tr> <tr><td>Architects Choice 1200 x 1000 x 8mm Glass Gate Panel AC 1092</td></tr> <tr><td>Architects Choice 1200 x 1000 x 12mm Glass Hinge Panel AC 1095</td></tr> </table> | | 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 | | Architects Choice 1200 x 1000 x 8mm Glass Gate Panel AC 1092 | Architects Choice 1200 x 1000 x 12mm Glass Hinge Panel AC 1095 |
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| | | | | | | | | | | | | | | |
| Architects Choice 1200 x 1000 x 8mm Glass Gate Panel AC 1092 | | | | | | | | | | | | | | |
| Architects Choice 1200 x 1000 x 12mm Glass Hinge Panel AC 1095 | | | | | | | | | | | | | | |

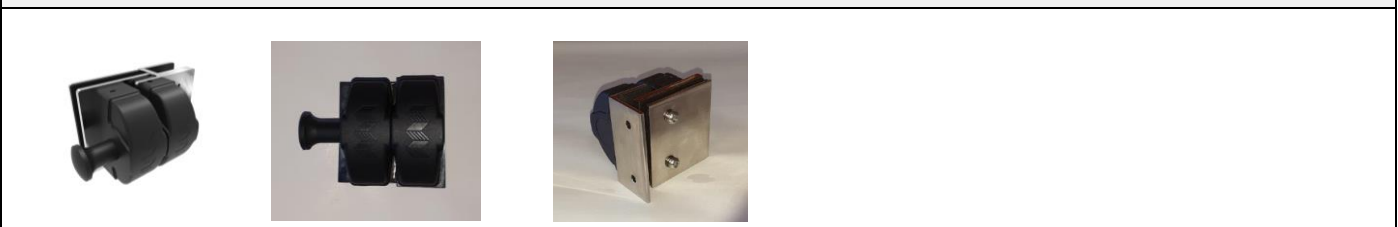
Architects Choice Glass Pool Panel Glazing Mark (Ref. 1288-2021); Identification of Safety Glass); and Minimum Marking Requirements;



Architects Choice Stainless Steel Hinge Set (AC1036);



Architects Choice Glass to Glass Latch (AC1023);



Issue Date: 11th October 2021

Expiry Date: 10th October 2022

Product Technical Statement Number: 100103 Rev 1

Product Technical Statement



Architects Choice Semi Frameless Post (AC1498, AC1505- Corner Post, AC1512, AC1519- Joiner Post, AC1526, AC1533- End Post) and Cast In Aluminium Corner, Joiner and End Posts;



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 1288-2021 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.

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/INmHw16Rt8k>

3. How to Install "Semi Frameless Post System" Video

<https://youtu.be/xM7IRCDaMTQ>

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

6. How to Install The Architects Choice "Semi Frameless Post System"

(Contact Protector Premium for a copy of the engineers Specifications;
BVT Engineering Professional Services- Engineering Report No. 21031331-04B
Semi Frameless Barrier with Foot Fixing Details
Date- 18/08/2021

Fixings.

The following fixings with 100mm edge spacing are to be used for the Semi Frameless and specified to AS5216:2018 depending on the substrate material. The maximum allowable glass span is 1300 mm.

Issue Date: 11th October 2021

Expiry Date: 10th October 2022

Product Technical Statement Number: 100103 Rev 1

Product Technical Statement



| Substrate Material | Fixing/per base plate | Minimum Geometric Distance |
|--------------------|---|--|
| Steel | 4x Stainless Steel 316 M10 Bolt | 15 mm (edge distance) |
| Timber | 4x Stainless Steel 316 M10 Bolt with minimum 46x46x4mm Washer | 40 mm (from edge of member) 100 mm (from end of member) |
| | 4x Stainless Steel 316 M10 Coach Bolt | 50 mm (from edge of member) 80 mm (from end of member) 130 mm (embedment depth) |
| Concrete | 4x Hilti HSA M10 Concrete Anchor | 80 mm (embedment depth) 120 mm (concrete thickness) 50 mm (edge distance) Specific design required for overall size |

Table 3. Fixing Details

Other relevant technical data;

NCC 2019 State of Territory Variations;

1. In New South Wales delete 3.10.1.0(a) and insert NSW 3.10.1.0(a) as follows:
 (a) Performance Requirement P2.7.1 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:
 (i) AS 1926 Parts 1 and 2; or
 (ii) If the swimming pool is a spa pool:
 (A) The requirements of (a)(i); or
 (B) Clause 9 of the Swimming Pools Regulation 2018.
 Application:
 NSW Part 3.10.1.0(a) applies in New South Wales to the technical construction requirements for barriers to restrict access to swimming pools, subject to out-of-ground pool walls and the walls of above ground pools, including inflatable pools, not being considered to be effective barriers.
 Note: The Swimming Pools Act 1992 and the Swimming Pools Regulation 2018, applicable to swimming pools with a depth of water of more than 300 mm, regulate the circumstances in which a barrier is required and prevail in the case of any inconsistency.

2. Part 3.10.1.0(a) does not apply in Queensland.
 Note: Restriction of access to swimming pools in Queensland is regulated under the Building Act 1975.

3. Part 3.10.1.0(a) does not apply in the Northern Territory.
 Note: Restriction of access to swimming pools in the Northern Territory is regulated under the Swimming Pool Safety Act.

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 Premium's 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 Premium's Architects Choice Pool Fencing and Gates

Issue Date: 11th October 2021

Expiry Date: 10th October 2022

Product Technical Statement Number: 100103 Rev 1

Product Technical Statement



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.*

Reports;

- a) Ian Bennies and Associates
Test Report No. 2018-006-S8R.
Semi-Frameless Glass Pool Fence and Gate with “Semi-Frameless Flanged Posts”. Swimming Pool Fence Tests to AS1926.1-2012
- b) Ian Bennies and Associates
Test Report No. 2018-006-S10- “Pool System Semi-Frameless Glass Pool with Cast-In Aluminium Posts”.
Swimming Pool Fence
Tests to AS1926.1-2012
- c) Ian Bennies and Associates
Test Report No. 2018-006-S4.
Glass Pool Gate Panel 1200h x 890W x 8mm
Fragmentation Test AS/NZS 2208-1996.
Tested April 2018- Passed
- d) Ian Bennies and Associates
Test Report No. 2018-006-S5.
Glass Pool Hinge Panel 1200h x 890W x 8mm
Fragmentation Test AS/NZS 2208-1996
Tested April 2018- Passed
- e) Ian Bennies and Associates
Test Report No. 2018-006-S3L.
Glass to Wall Mount, Polymer Side Pull Latch, Durability, Strength and Rigidity, Closing and Latching and Security of Closure of Gate Units Tests to AS1926.1-2012.
Tested March 2018- Passed
- f) BVT Engineering Professional Services
Engineering Report No. 21031331-04
Semi Frameless Barrier with Foot Fixings
Date- 18/08/2021

Issue Date: 11th October 2021

Expiry Date: 10th October 2022

Product Technical Statement Number: 100103 Rev 1

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 Product 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 Product Technical Statement.

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

Stefan Ossenberg

PCME Certifications Representative Name

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A handwritten signature in blue ink, appearing to read 'Stefan Ossenberg', is written over a faint, light blue circular stamp or watermark.

Signature

Issue Date: 11th October 2021

Expiry Date: 10th October 2022

Product Technical Statement Number: 100103 Rev 1