FLO GLASS POOL FENCE TEST REPORT

Customer[1]	**FLO GLASS Pty Ltd**
Customer Address[1]	Suite 3, Level 1/200 Creek Street, Spring Hill, QLD, 4000
Requested By[1]	Nathan Grima
Test Date	10 & 14 July 2025
Issuing Laboratory	MechTest – Brisbane Laboratory
Report Number	RB25-14347-01
Job Description[1]	Testing of Flo Glass pool fence.
Identification	SB25-14347-01 & 02
Test Specification[1]	AS 1926.1:2024: - Appendix A, strength and rigidity of barrier openings. - Appendix B, strength test for posts and footings. - Appendix C, strength test.
Acceptance Specification[1]	AS 1926.1:2024: - Clause 3.1, when tested to Appendix A the test cone shall not pass through the openings under the application of 150 N force. - Clause 3.2, when tested to Appendix B the post and footing shall withstand a horizontal force of 330 N at 1 200 mm above finished ground level. After loading there shall be no permanent damage to any post, and the footings shall not loosen to impair the effectiveness of the barrier. - Clause 3.3, when tested to Appendix C, test specimen must sustain peak load without breakage, loosening of components or becoming permanently deformed by more than 1/200 its length.
Test Results	See Tables 3, 4, and 5

Note 1: Information supplied by Client. This information may affect the validity of the result.

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2) The test results included in this document relate only to the items tested, in the condition that they were supplied to MechTest by the client.
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   b. The results detailed in this report shall not be taken to suggest that all products in all state of repair would perform in the same manner.
3) The test items were supplied by the client, MechTest takes no responsibility for the authenticity of the product described in this report.
4) The assembly instructions and installation procedure are the responsibility of the client, MechTest takes no responsibility.
5) This report is based in part on information which was provided to us by the client and/or others. MechTest does not warrant or guarantee the accuracy of this information.
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Form ID: AMTS-06-06-01 (R1)

All samples will be discarded after 4 weeks, unless requested otherwise
The test results included in this document relate only to the items tested
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Authorised Signatory

Thomas Wilkie

16 July 2025

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TEST SPECIMEN DETAILS

Note: All information supplied by client.

Table 1: Specimen details for item 01

Type of Component	Pool Fencing Assembly
Dimensions [mm]	Overall system: 3 000 (l) x 1 270 (h) Glass Panes: 80 (w) x 1 170 (h) x 8 (t) Rail: 2 900 long, 100 mm slot spacing Posts: 170 (w) x 47 (t) x 1 250 (h)
Item Material	Panes – Glass - Not further specified Posts, rail, and spigot – Aluminium - Not further specified
Other Details	Spigots mounted to concrete using 4 x 65 mm M10 anchor screws

Table 2: Specimen details for item 02

Type of Component	Pool Fencing Assembly
Dimensions [mm]	Overall system: 1120 (l) x 1 270 (h) Glass Panes: 80 (w) x 1 170 (h) x 8 (t) Rail: 1 020 long, 85 mm slot spacing Posts: 170 (w) x 47 (t) x 1 250 (h)
Item Material	Panes – Glass - Not further specified Posts, rail, and spigot – Aluminium - Not further specified
Other Details	Spigots mounted to concrete using 4 x 65 mm M10 anchor screws

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TEST RESULTS – STRENGTH AND RIGIDITY TESTS FOR BARRIER OPENINGS

Test Method	AMTS-04-06-05 & AS 1926.1:2024 Appendix A, strength and rigidity of barrier openings - Position loading device (conical test head) into the opening being tested. - Steadily apply a force up to 150 N to force the object through the opening. - Record the force at which the test object pulled through the panel or that it failed to pull through the panel. - The steps above must be repeated in three locations, across the width of the panel at the middle of each third of the panel.
Acceptance Specification	AS 1926.1:2024 Clause 3.1: - The test object shall not pass through the openings under the application of a force of 150 N.
Test Date	10 & 14 July 2025
Test Technician	Luis Siasoco
Job Location	Building 2, 627 Boundary Road, Archerfield
Loading Device	T00181 – Conical test head
Measuring Device	T00172 – 500 N Spring Balance
Notes	–

Table 3: Test results – AS 1926.1:2024 Appendix A, strength and rigidity test for barrier openings

Item	Pull-through Force [N]			Comments
	Left Third	Centre	Right Third	
01	118	98	108	Fail – Cone pulled through below 150 N.
02	160	156	170	Pass

Notes: Sample 01 **did not comply** with the acceptance specification.
Sample 02 **complied** with the acceptance specification.

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TEST RESULTS – STRENGTH TEST FOR POST

Test Method	AMTS-04-06-05 & AS 1926.1:2024 Appendix B, strength test for posts and footings. - Position the flat end of the test object against the post under test at a height of 1200mm above the ground level at 90° to the barrier. - Apply a horizontal force of 300 N to the test component for a minimum of 30 seconds. - Remove the force and inspect the post for damage or loosening of the footings
Acceptance Specification	AS 1926.1:2024 Clause 3.2: - Post and footing shall withstand a horizontal force of 330 N at 1 200 mm above the finished ground level. After loading there shall be no permanent damage to any post, and loose footings
Test Date	10 July 2025
Test Technician	Luis Siasoco
Job Location	Building 2, 627 Boundary Road, Archerfield
Loading Device	Hydraulic ram connected to T00106 – Flat test head
Measuring Device	T00097 – Dewesoft DAQ system T00144 – 20 kN load cell (Connected in series with loading device)
Notes	–

Table 4: Test results – AS 1926.1:2024 Appendix B, strength test for posts and footings.

Item	Test Force [N]	Comments
01	330	Pass – no damage to post and loosening of footings

Notes: Sample 01 **complied** with the acceptance specification.

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TEST RESULTS – STRENGTH TEST FOR RIGID COMPONENTS

Test Method	AMTS-04-06-05 & AS 1926.1:2024 Appendix C, strength test for barrier components - Position the flat end of the test object at the weakest point (vertical glass pane) in the system - Apply a preload of 50 N for a minimum of 30 s then remove the force. - Zero the displacement sensor - Apply a 300 N force for a minimum of 30 s. Remove the test force and measure and record the amount of permanent deformation of the component.
Acceptance Specification	AS 1926.1:2024 Clause 3.3 - The test specimen must be capable of sustaining a force of 330 N without any component breaking, showing signs of failure, loosening and becoming permanently deformed by more than 1/200 over its length (15.5mm).
Test Date	10 July 2025
Test Technician	Luis Siasoco
Job Location	Building 2, 627 Boundary Road, Archerfield
Loading Device	Hydraulic ram connected to T00106 – Flat test head
Measuring Device	T00099 – 100 mm displacement gauge T00097 – Dewesoft DAQ system T00144 – 20 kN load cell (Connected in series with loading device)
Notes	–

Table 5: Test results – AS 1926.1:2024 Appendix C, strength test for rigid barrier components.

Item	Test Force [N]	Permanent Deformation [mm]	Comments
01	330	0.18	No signs of components breaking, showing signs of failure, or loosening

Notes: Sample 01 **complied** with the acceptance specification.

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FIGURES



Figure 1: Test sample 01-01.



Figure 2: Test sample 01-02.

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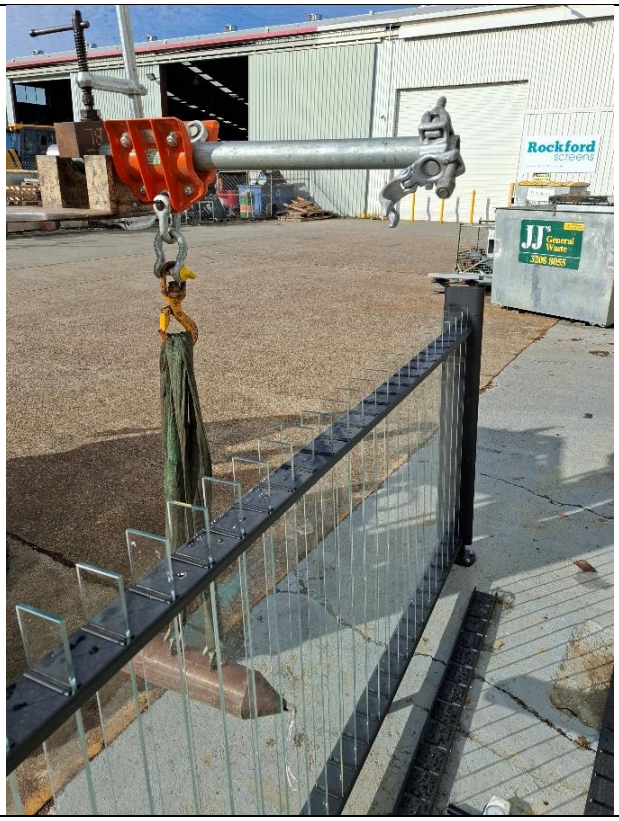


Figure 3: Typical test arrangement for AS 1926.1:2024, Appendix A.



Figure 4: Typical test arrangement for AS 1926.1:2024, Appendix B

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Figure 5: Typical test arrangement for AS 1926.1:2024, Appendix C

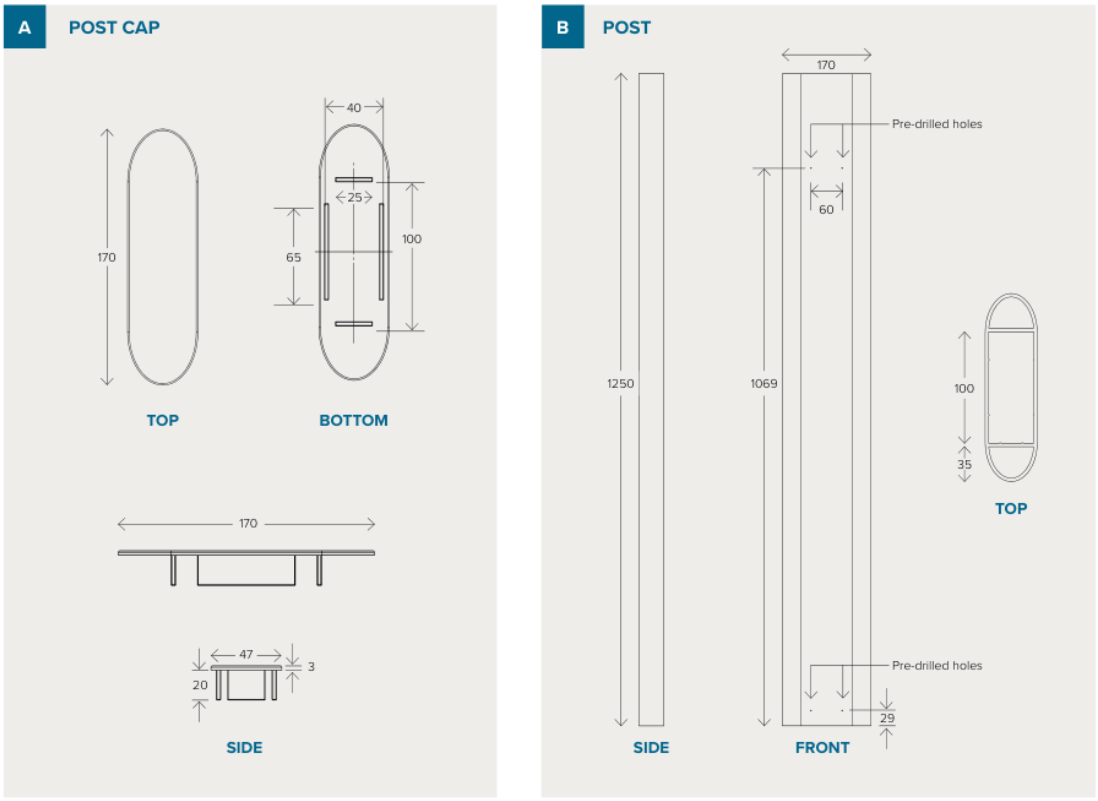


Figure 6: Drawings of fence post and cap. Supplied by client.

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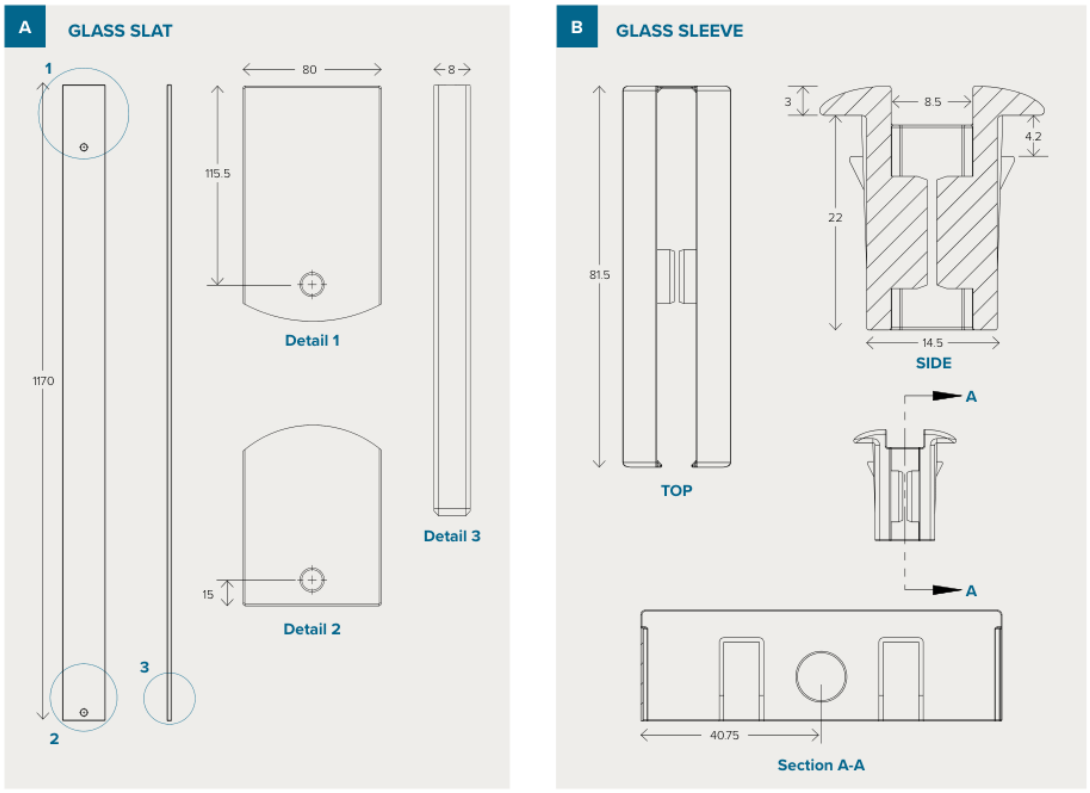


Figure 7: Drawings of glass slat and sleeve. Supplied by client.

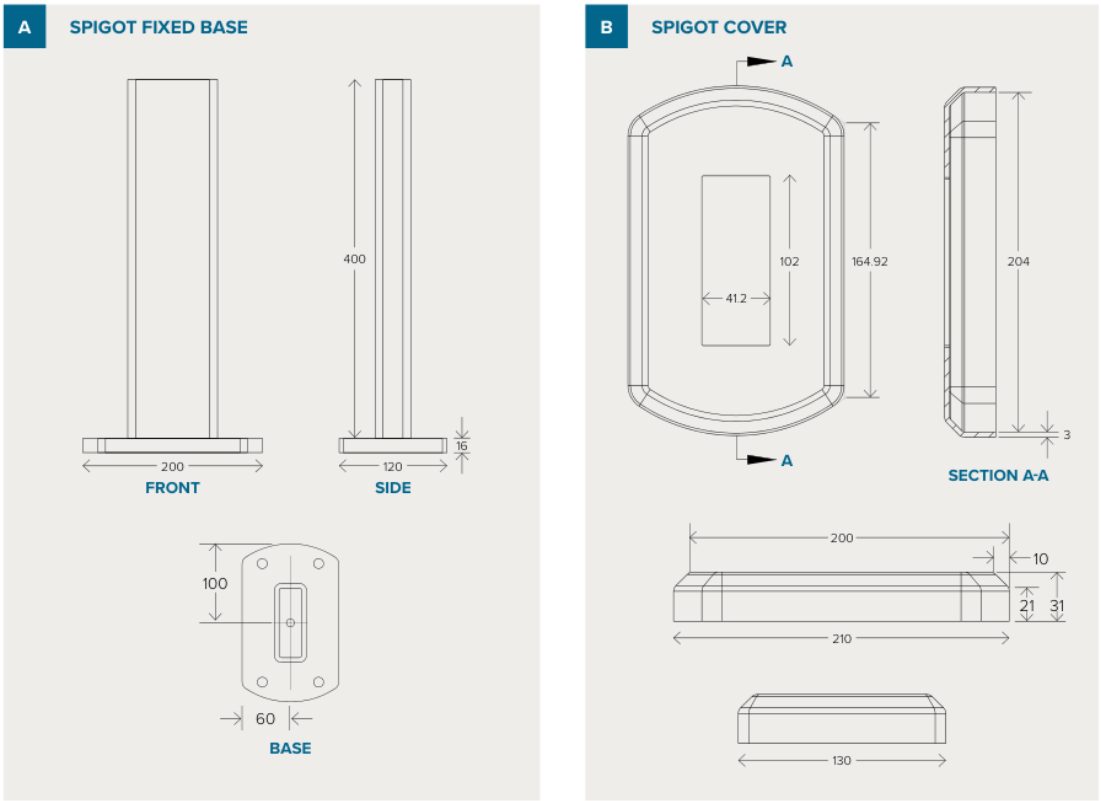


Figure 8: Drawings of spigot and spigot cover. Supplied by client.

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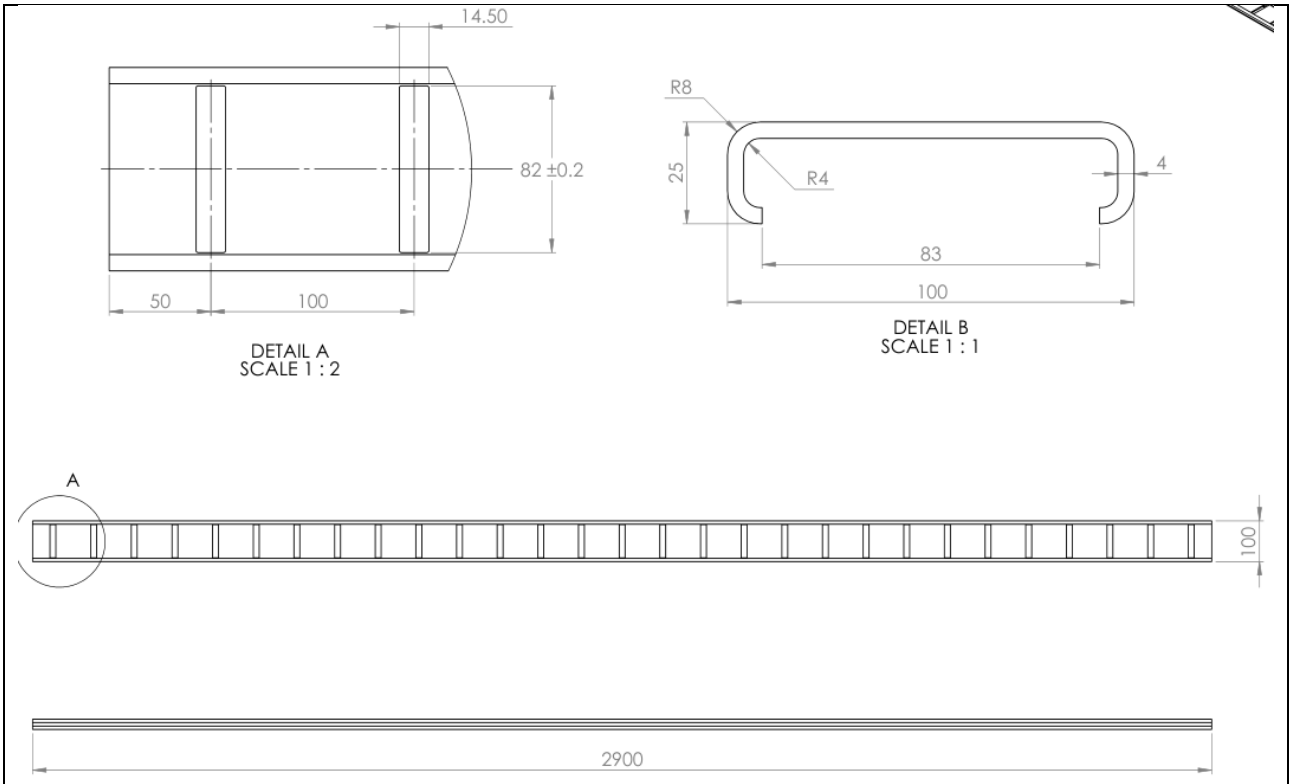


Figure 9: Drawing of rail type used for item 01. Supplied by client.

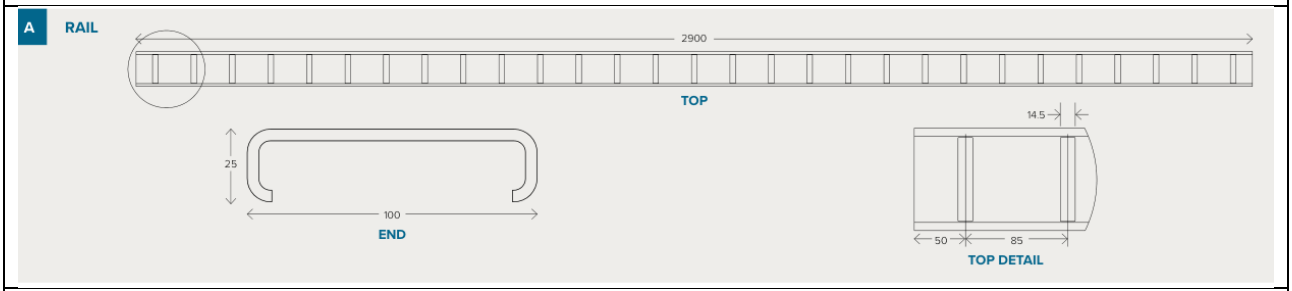


Figure 10: Drawing of rail type used for item 02. Supplied by client.

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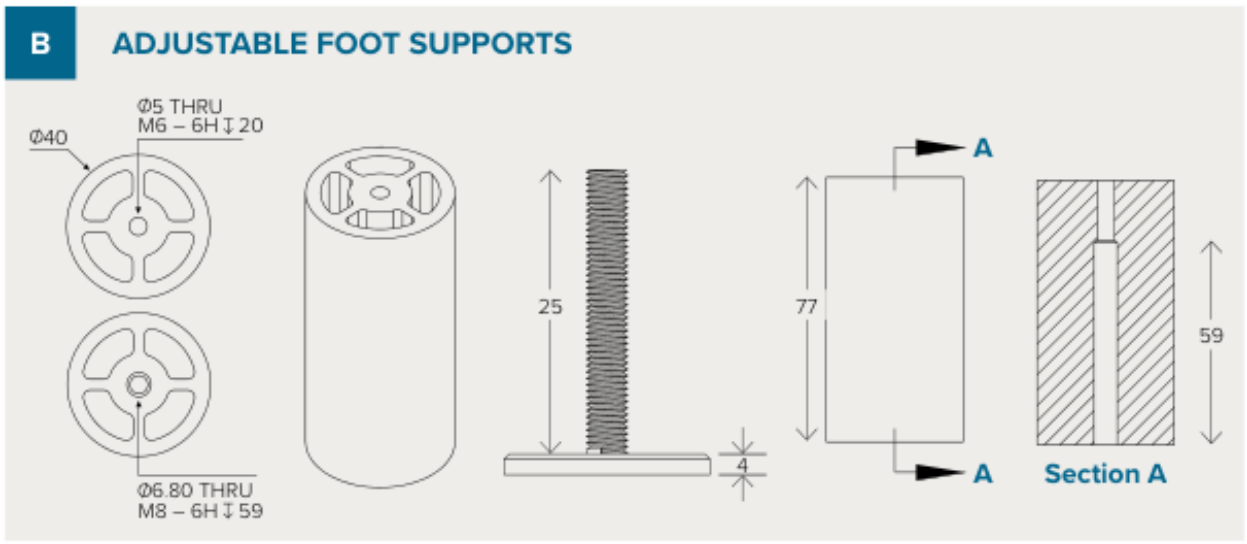


Figure 11: Drawing of adjustable foot. Supplied by client.

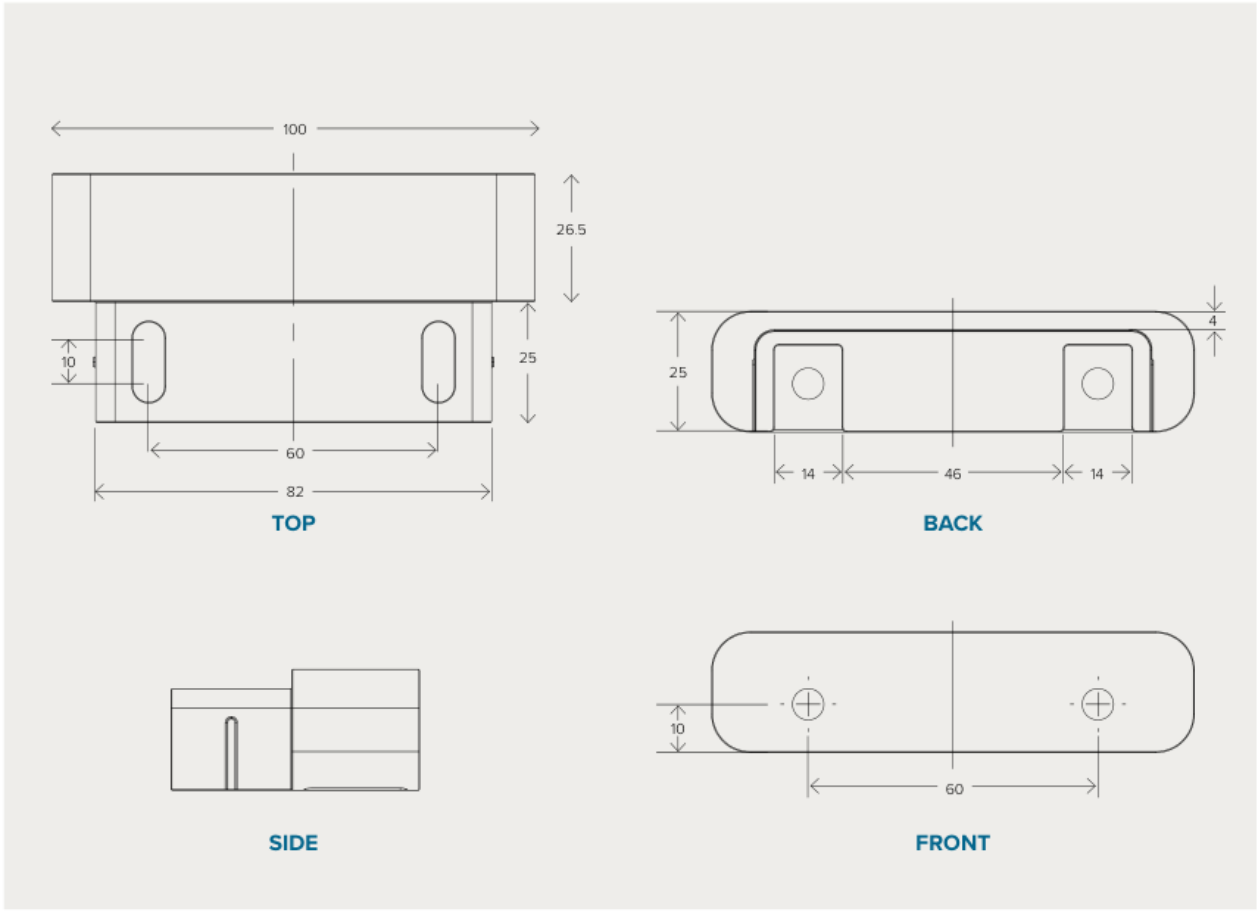


Figure 12: Drawing of rail brackets. Supplied by client.

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