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	11 July 2025
Issuing Laboratory	MechTest – Brisbane Laboratory
Report Number	RB25-14347-02
Job Description[1]	Testing of Flo Glass pool fence.
Identification	SB25-14347-01
Test Specification[1]	AS 1170.1:2002: - Table 3.3, minimum imposed actions for barriers, class C3.
Acceptance Specification[1]	AS/NZS 1170.1:2002, Clause 3.6 - Loads must be held without breakage or loosening of components. AS/NZS 1170.1 Supplement 1: 2002, C3.6 – Horizontal Deflection of handrails must not exceed Height/60 + Length/240 (<35mm)
Test Results	The tested item **complied** with the acceptance specification.

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

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1) Advanced Materials Testing Services Pty Ltd (MechTest) shall not be liable for loss, cost, damages, or expenses incurred by the client or any other person or company resulting from the use of any information or interpretation given in this report. In no case shall MechTest be liable for consequential damages including, but not limited to, lost profit, damages for failure to meet deadlines, and lost production arising from this report.
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.
   a. It is the responsibility of the client to ensure that the samples tested are representative of the entire product batch.
   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.
6) This report must be read in its entirety.
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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

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

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TEST RESULTS – LOAD TESTS

Test Method	Horizontal Loading (Top Edge): - Place a rigid timber beam across the top edge of the panel - Apply a horizontal uniformly distributed line load of 0.75kN/m (Target test load = 2.25 kN) and hold the load for 5 minutes - Remove the test load and inspect for any signs of failure. Vertical Loading (Top Edge): - Place a rigid timber beam across the top edge of the panel - Apply a downward uniformly distributed line load of 0.75kN/m (Target test load = 2.25 kN) and hold the load for 5 minutes - Remove the test load and inspect for any signs of failure. Outwards & Downwards Loading (Rail): - Apply as outward point load of 0.6 kN and hold the load for 5 minutes - Remove the test load and inspect for any signs of failure. - Measure and record the deflection. - Repeat the test using the same load applied in a downward direction Horizontal Loading (Infill): - Place a rigid timbre sheet with foam underlay in front of the test panel - Apply a load of 1 kPa (Area of Infill = 3.51 mm^2, Target test load = 3.51 kN) at the centre of the sheet and hold the load for 5 minutes - Remove the test load and inspect for any signs of failure. Any Direction (Point Loading): - Apply a concentrated point load of 0.5 kN to the centre glass pane at mid-height and hold the load for 5 minutes - Remove the test load and inspect for any signs of failure.
Acceptance Requirements	AS/NZS 1170.1:2002, Clause 3.6 - Loads must be held without breakage or loosening of components. AS/NZS 1170.1 Supplement 1: 2002, C3.6 – Horizontal Deflection of handrails must not exceed Height/60 + Length/240 (<35mm)
Test Technician	Luis Siasoco
Job Location	Building 2, 627 Boundary Road, Archerfield, 4125
Test Date	11 July 2025
Loading Device	Hydraulic ram connected to T00106 – Flat test head Timbre sheet with foam underlay (for uniformly distributed infill loads) Timbre beam (for uniformly distributed line loads)
Measuring Device	T00097 – Dewesoft DAQ system T00144 – 20 kN load cell (Connected in series with loading device)

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Table 2: Test results – AS 1170.1:2002, Table 3.3.

Test		Target Test Load (kN)	Deflection [mm]	Comments
Top Edge	Horizontal Loading	2.25	N/A	Load sustained without damage or loosening of components
	Vertical Loading	2.25	N/A	Load sustained without damage or loosening of components
Rail	Outwards	0.6	11.95	Load sustained without damage or loosening of components
	Downwards	0.6	N/A	Load sustained without damage or loosening of components
Infill	Horizontal Loading	3.5	N/A	Load sustained without damage or loosening of components
Point Load	Any Direction	0.5	N/A	Load sustained without damage or loosening of components

Notes: The tested item **complied** with the test in accordance with the acceptance specification.

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FIGURES



Figure 1: Test sample



Figure 2: Test setup for top edge horizontal loading

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Figure 3: Test setup for top edge vertical loading

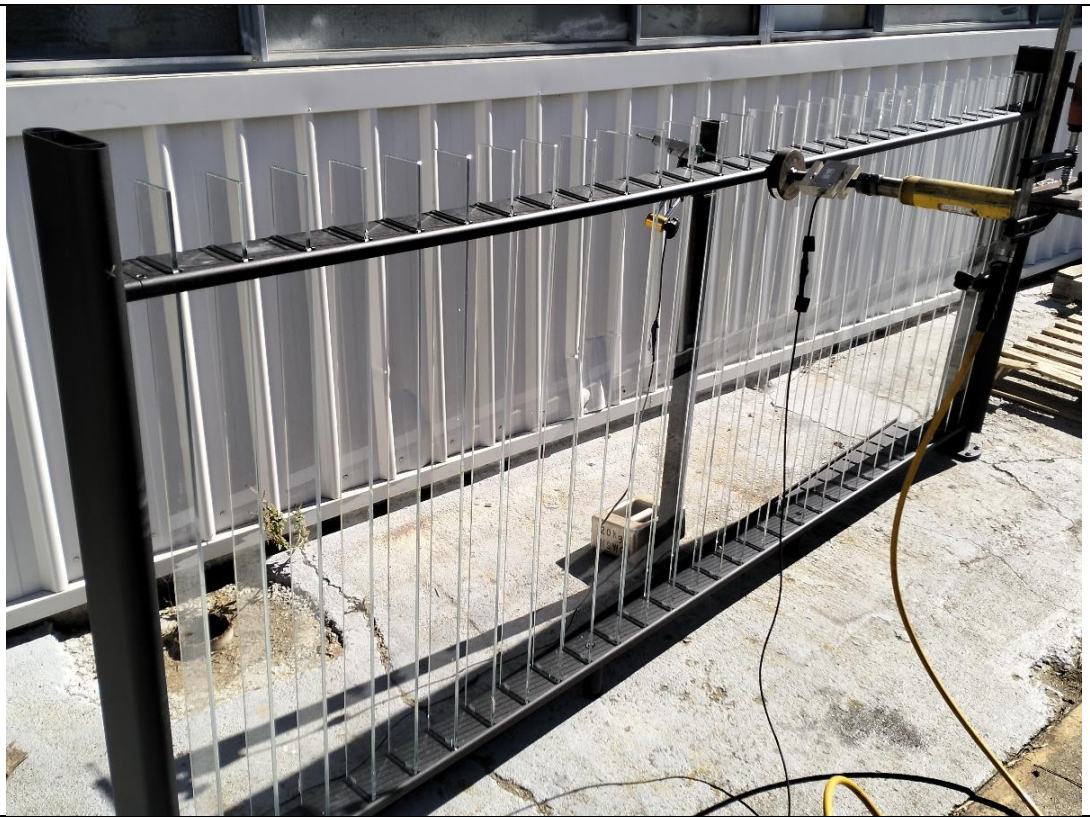


Figure 4: Test setup for rail loading (outward)

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Figure 5: Test setup for rail loading (downward)



Figure 6: Test setup for horizontal infill loading

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Figure 7: Test setup for point load (any direction)

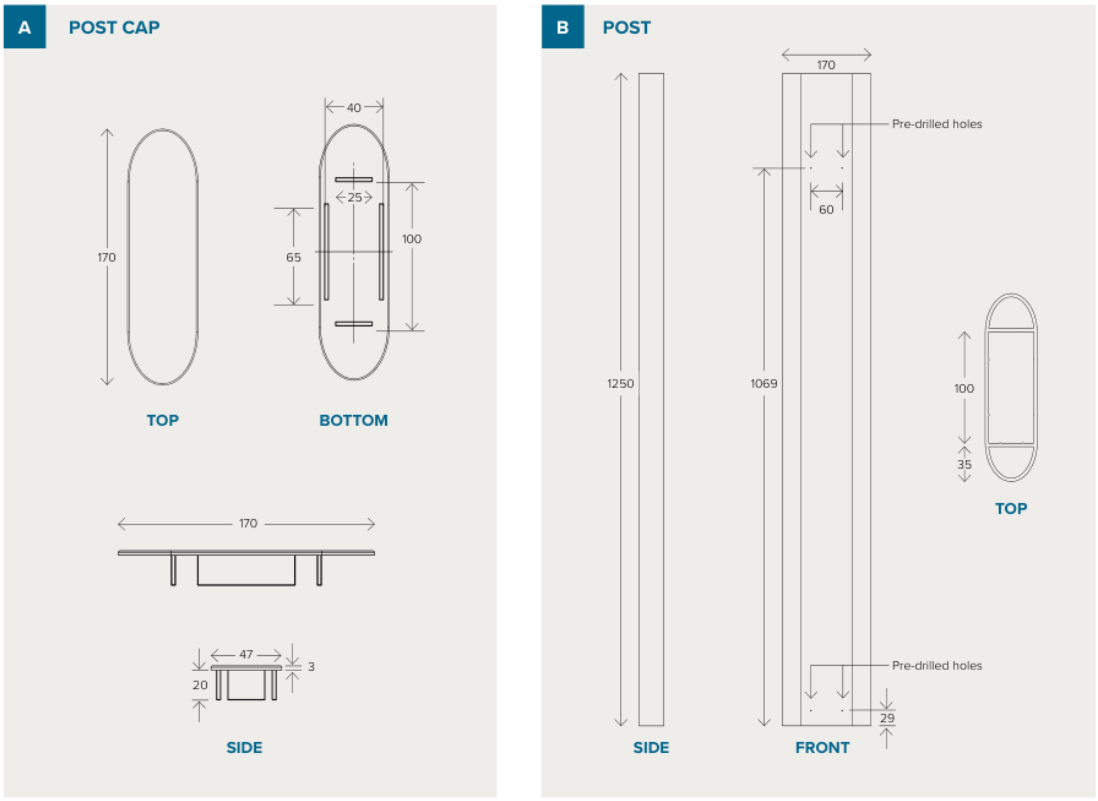


Figure 8: Drawings of fence post and cap. Supplied by client.

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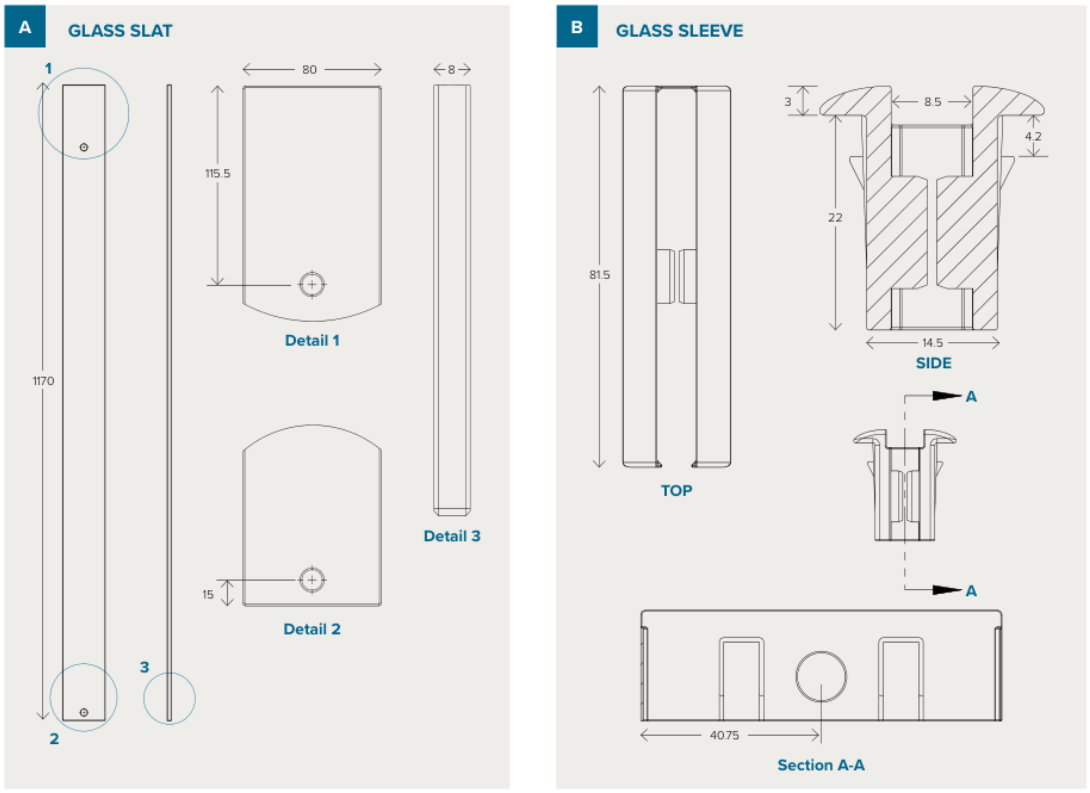


Figure 9: Drawings of glass slat and sleeve. Supplied by client.

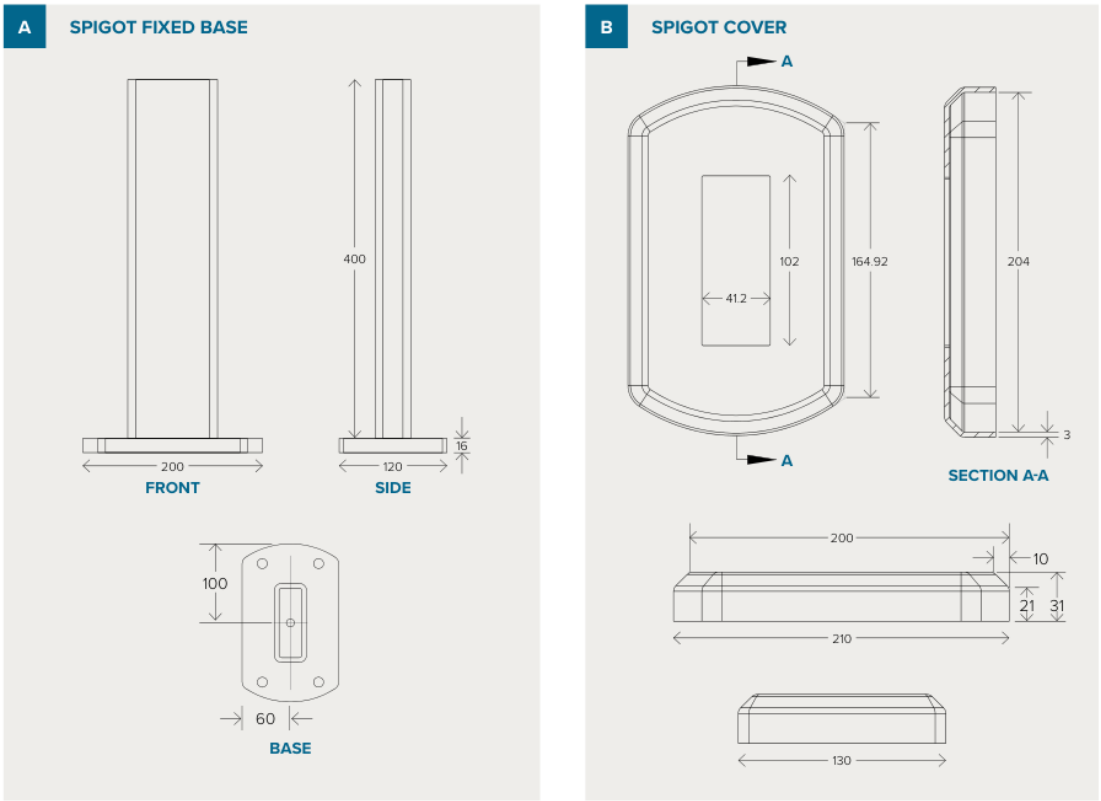


Figure 10: Drawings of spigot and spigot cover. Supplied by client.

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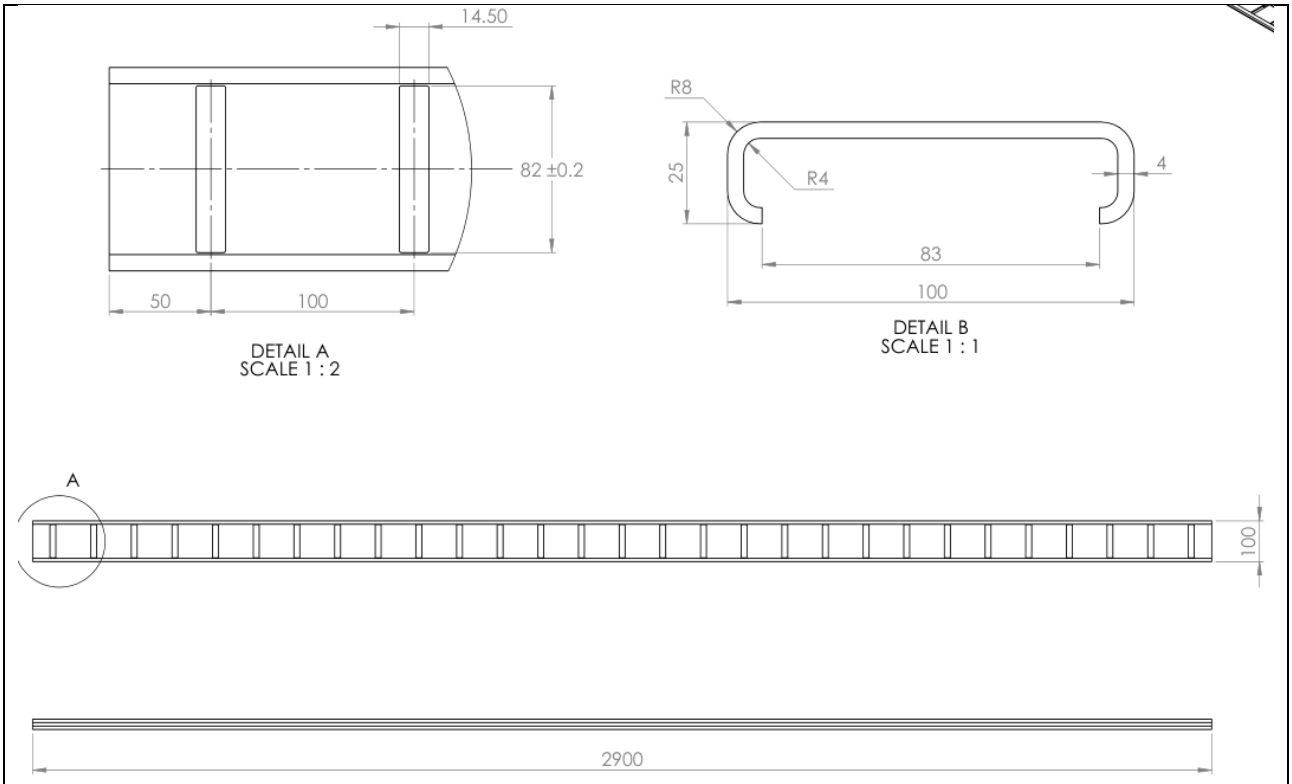


Figure 11: Drawing of rail type used for item 01. Supplied by client.

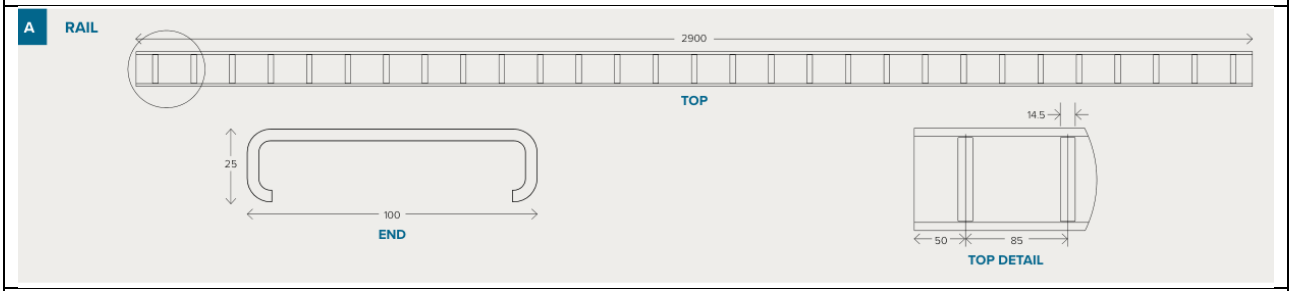


Figure 12: Drawing of rail type used for item 02. Supplied by client.

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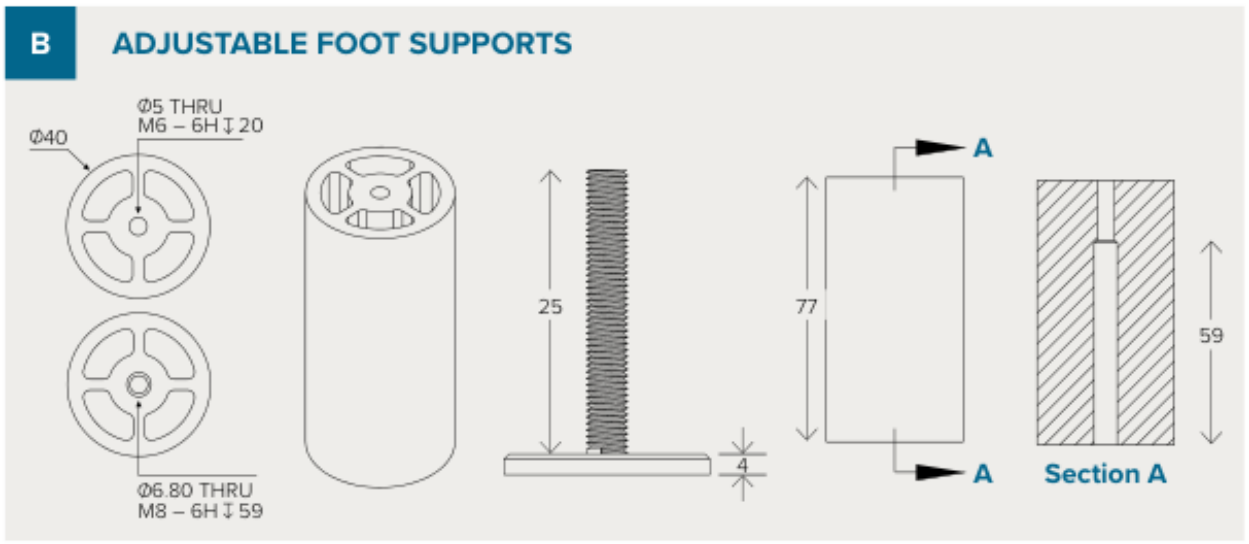


Figure 13: Drawing of adjustable foot. Supplied by client.

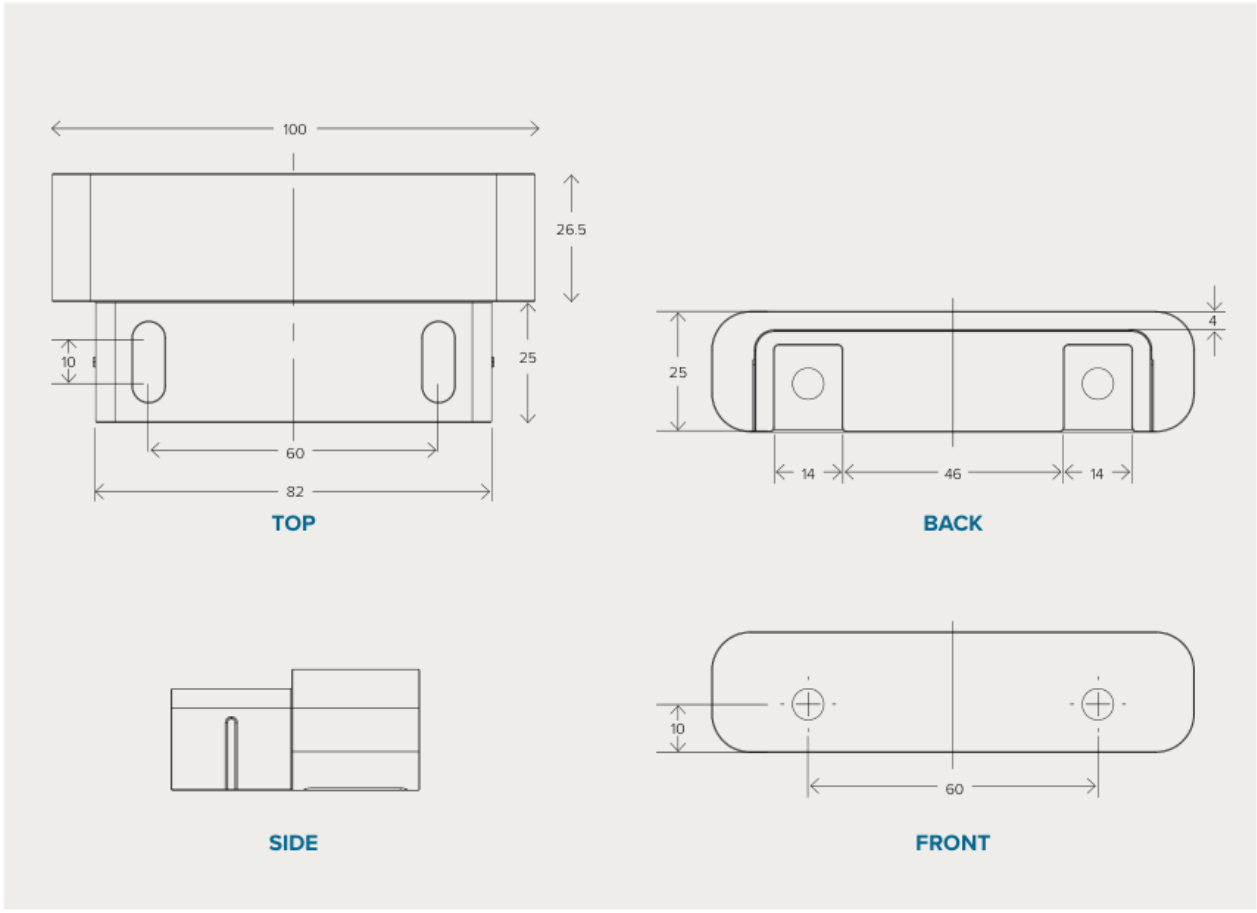


Figure 14: Drawing of rail brackets. Supplied by client.

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