
TEST REPORT



A Z U M A
Design

GLASS BARRIERS



CLIENT – SILVERSTONE HARDWARE

PRODUCT – SOF – 5030X

TESTED BY

AZUMA DESIGN PTY LTD

AZT0457.23

NATA ACCREDITED LABORATORY NO. 15147

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Test results in this report are relevant only to the sample tested.

1 Customer Requirements

To test the sample by the test methods specified in Appendix H of AS1288-2021 and requirements from Section 7.

2 Referenced Standards

- AS1288-2021 Glass in buildings Set - Section 7 Balustrades, Appendix H

3 Test Sample Description

| | |
|-------------------------|---|
| Model No./Name | SOP- 5030X |
| Customer | Silverstone Hardware |
| Address | 56-62 Bryant St, Padstow NSW 2211 |
| Azuma Testing Number | AZT0457.23 |
| Date of Test | 07/11/2023 |
| Structural Connection | Nil |
| Test Sample Description | Standoff Pins OD 50 mm (32 mm base and 12 mm cap both with washers). Pins are 250 mm from the side of the glass and 50 mm from the bottom. Pins are spaced 130 mm vertically and 950 mm Horizontally. Pins clamp a 15.04 mm (6/3.04/6 mm) toughened laminated panel 1450 mm (W) x 1280 mm (H). Pins are secured to concrete using M12 x 150 mm Threaded Rod secured in 16 mm hole with chemset. |

4 Results

4.1 Barrier Gap Test

| | |
|-------------------------------------|--------------------------------|
| Does the probe pass through any gap | No, between Concrete and Glass |
| Result | Pass |

4.2 Point Load Testing

4.2.1 Outwards

| Type of Load | Serviceability | Ultimate |
|---------------------------|----------------|------------|
| Load Applied | 600 N | 990 N |
| Time Load Held | 10 minutes | 10 minutes |
| Deflection under Load | 17.92 mm | 32.78 mm |
| Permanent Deflection | 0.28 mm | 1.10 mm |
| Damage to Glass in Sample | No | No |
| Result | Pass | Pass |

4.2.2 Downwards

| Type of Load | Serviceability | Ultimate |
|---------------------------|----------------|------------|
| Load Applied | 600 N | 990 N |
| Time Load Held | 10 minutes | 10 minutes |
| Deflection under Load | 0 mm | 2 mm |
| Permanent Deflection | 0 mm | 0 mm |
| Damage to Glass in Sample | No | No |
| Result | Pass | Pass |

4.2.3 Inwards

| Type of Load | Serviceability | Ultimate |
|---------------------------|----------------|------------|
| Load Applied | 600 N | 990 N |
| Time Load Held | 10 minutes | 10 minutes |
| Deflection under Load | 19.56 mm | 35.21 mm |
| Permanent Deflection | 0.35 mm | 1.01 mm |
| Damage to Glass in Sample | No | No |
| Result | Pass | Pass |

4.3 Uniform Line Load Testing

4.3.1 Vertical

| Type of Load | Serviceability | Ultimate |
|---------------------------|----------------|------------|
| Load Applied | 1088 N | 1795 N |
| Time Load Held | 10 minutes | 10 seconds |
| Deflection under Load | 0 mm | 0 mm |
| Permanent Deflection | 0 mm | 0 mm |
| Damage to Glass in Sample | No | No |
| Result | Pass | Pass |

4.3.2 Horizontal

| Type of Load | Serviceability | Ultimate |
|---------------------------|----------------|------------|
| Load Applied | 1088 N | 1795 N |
| Time Load Held | 10 minutes | 10 seconds |
| Deflection under Load | 25.42 mm | 41.65 mm |
| Permanent Deflection | 1.09 mm | 0.28 mm |
| Damage to Glass in Sample | No | No |
| Result | Pass | Pass |

Signature: *AHorne*

Date: 08/12/2023

5 Conclusion and Signatories

5.1 Conclusion

The tested sample has passed the requirements of AS1288 Appendix H.

5.2 Signatories

Tested By: Ash Horne

Position: National Business Manager

Qualifications: B.ENG (Hons), MEM, MIEAust

Signature: *AHorne*

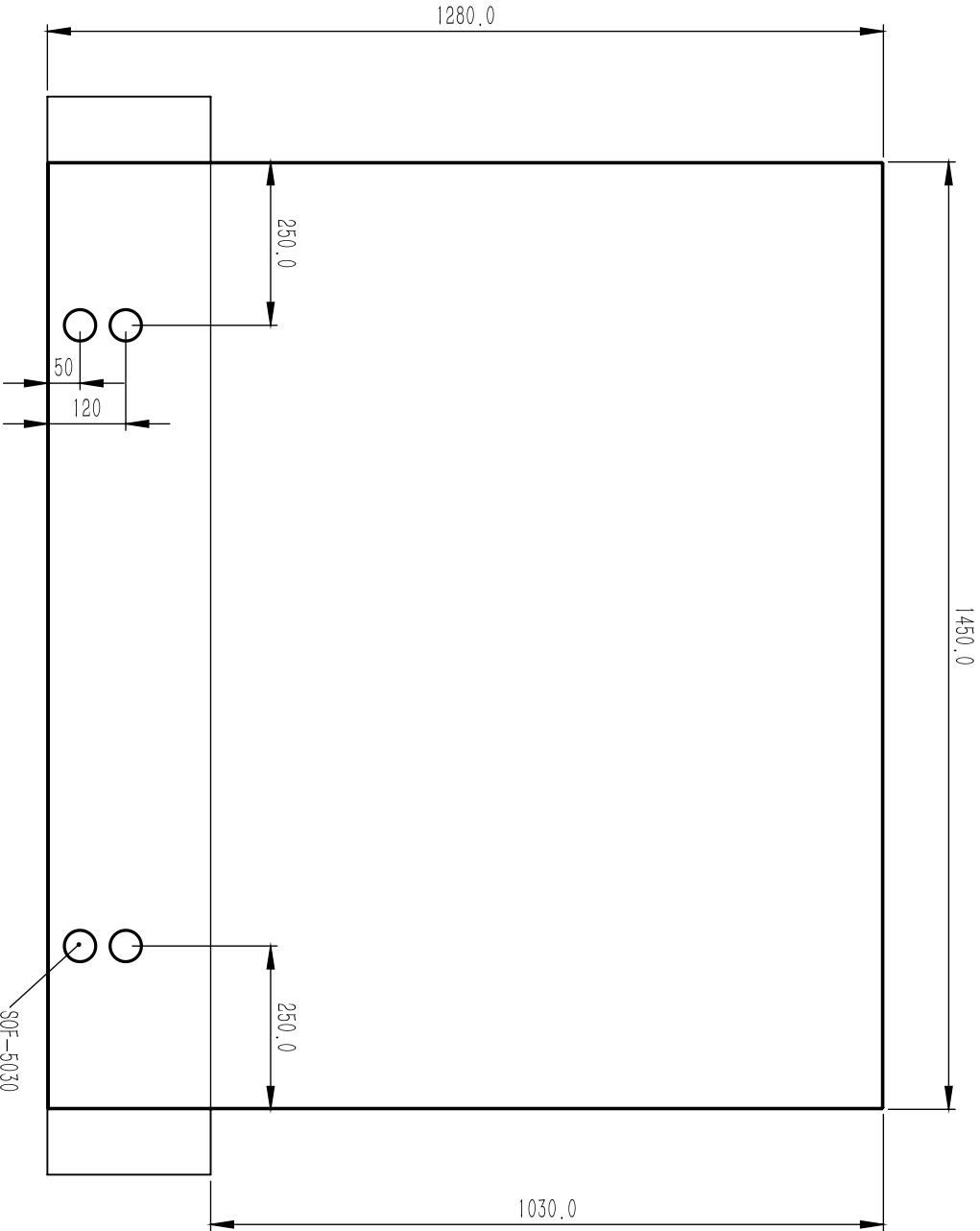
Date: 08/12/2023

END OF REPORT

08/12/2023

Home

| |
|------------|
| Drawing ID |
| SOF-5030 |



Information Supplied by Customer

AZT0457.23

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MATERIAL:

15.04mm Toughened Laminate Glass

CATALOGUE AND DESCRIPTION:

> /
> /
> /

NOTES:

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SILVER STONE HARDWARE PTY LTD

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Drawing ID
SOF-50 Series

08/12/2023

| Diameter | Spacer | Available Finished | | | | |
|----------|------------|--------------------|-----------|---------------|-------|-------------|
| | | Polish S.S | Satin S.S | Texture Black | White | Brush Brass |
| Ø50 | 5mm | ● | ● | ● | ● | ● |
| Ø50 | 10mm | ● | ● | ● | ● | ● |
| Ø50 | 20mm | ● | ● | ● | ● | ● |
| Ø50 | 25mm | ● | ● | ● | - | - |
| Ø50 | 30mm | ● | ● | ● | ● | ● |
| Ø50 | 40mm | ● | ● | ● | - | - |
| Ø50 | 50mm | ● | ● | ● | - | - |
| Ø50 | Adjustable | ● | ● | ● | - | - |

Name

MATERIAL:

316L Stainless Steel

CATALOGUE AND DESCRIPTION:

- > Glass Fixing Systems
- > Standoff Series
- > Ø50mm Range

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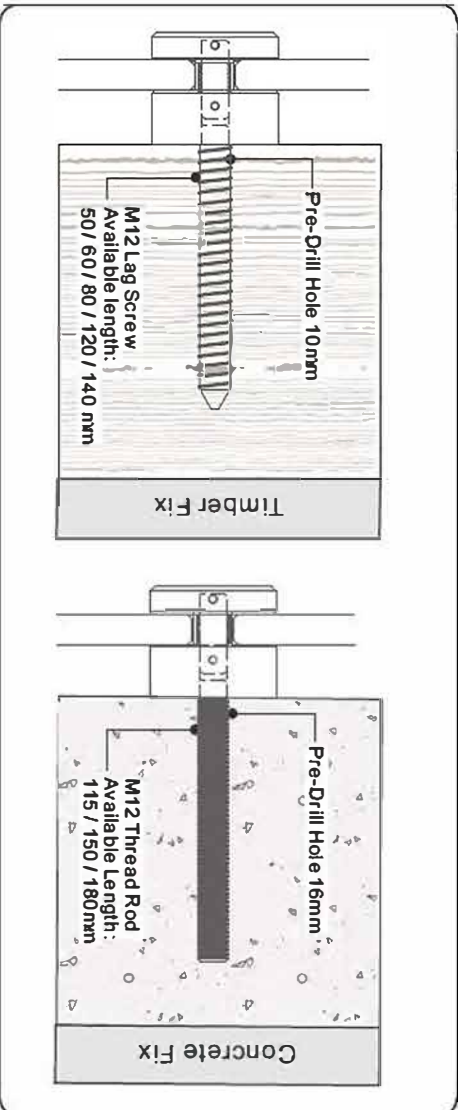
Glass Preparation



Information Supplied by Customer



Instructions



AZT0457.23