

ASSA ABLOY AUSTRALIA  
235 Huntingdale Rd  
Oakleigh, VIC 3166

## **TEST REPORT (6179)**

### **Security Window Grille**

### **FOR**

**(Prowler Proof –Gershwin  
122 Buchanan Rd  
Banyo  
QLD)**



NATA Accredited Laboratory  
Accreditation No.: 14812

This document is issued in accordance with  
NATA's accreditation requirements

Accredited for compliance with ISO/IEC  
17025-Testing

Date of Issue: 20/02/2019

**Test Report  
Security Window Grille**

<b>Test Report Number:</b>	6179	<b>PAM Number:</b>	
<b>Manufactured By:</b>	Prowler Proof - Gershwin	<b>Date of Submission:</b>	
<b>Tested By:</b>	D Gough	<b>Date:</b>	6/02/2019
<b>Certified By:</b>	C Korvin	<b>Date:</b>	6/02/2019
<b>Witnessed By:</b>	Adam How	<b>Date:</b>	6/02/2019

**Details of Test Window**

<b>Type and Class:</b>	Movable Class B
<b>Make or Model:</b>	Hinge Window Security Screen with Protec aluminium security mesh
<b>Sample Number:</b>	P01-000256
<b>Frame Size:</b>	1640 x 1045mm wide
<b>Framing Material:</b>	Pine
<b>Constructional Description of Test Security Window Grille:</b>	
An Aluminium hinge window security screen containing perforated aluminium mesh infill.	

**Details of Test Window Infill**

<b>Type and Fabrication Method:</b>	Protec perforated sheet mechanically bonded to aluminium frame
<b>Manufacturer's Name / Part Number:</b>	Protec
<b><u>Type 1 Mesh Infill (if applicable)</u></b>	
<b>1) Number of Intersected Strands in a 150mm Circle:</b>	
<b>2) Breaking Force in Shear of One Strand (min 3kN):</b>	
<b>Multiplication of Above Points 1 and 2 (min 30kN):</b>	
<b><u>Type 3 Mesh Infill (if applicable)</u></b>	
<b>Material Type and Grade:</b>	Perforated aluminium sheet
<b>Mass per m<sup>2</sup> (kg):</b>	Not stated
<b>Knife Shear Test:</b>	Yes -Passed -Azuma report AZT0304.14. NATA Lab No 15147

*(Above details supplied by customer not by testing authority)*

**Test Report  
Security Window Grille**

**Dynamic Impact Test – AS 5039/5041-2003**

Measurement Before Impact Test at Impact Point (datum reading): 10mm		Pass	Fail
Test	Remarks		
Impact One:	10mm deformation	Yes	
Impact Two:	15mm deformation	Yes	
Impact Three:	16mm deformation	Yes	
Impact Four:	17mm deformation	Yes	
Impact Five:	18mm deformation	Yes	
150mm Diameter Probe			
Infill Type Probe test:	Yes Passes <3mm holes		

**Jemmy Tests – AS 5039/5041-2003**

Location	Remarks	Pass	Fail
Centre Locking Point:	No access points could be created to apply the jemmy test fixture. Passes by default	Yes	
Bottom Locking Point:		y	
Top Locking Point:		y	
Centre Hinge:		y	
Bottom Hinge		y	
Top Hinge:		y	

**Infill Pull Tests – AS 5039/5041-2003**

Location	A 450mm Maximum	B 150mm Maximum	C 100x100 mm Maximum	D	E	Pass	Fail
Centre Grille (1.5kN):							
Horizontal, Locking Point (2.0kN) (Class B,C+D only):							
Top Corner, Lock Side (1.5kN @ 18°):							
Bottom Corner, Lock Side (1.5kN):							
Bottom Non-Locking Corner (1.5kN @ 45° + 18°):							

A - Maximum size of any gap between grille and grill frame or grille frame and door frame under load (dynamic).

B - Maximum size of any gap between grille and grill frame or grille frame and door frame after load (static).

C - The size of any gap caused by the infill breaking away from the security grille framing.

D - Whether the grille remained in a fixed position.

E - Whether the locking device maintained the door in a locked position.

**Force Probe Test** (type 2 infill material only)

<b>150mm Spherical Probe Test (1.5kN):</b>	Pass		Fail	
<b>Remarks:</b> _____ _____				

**Overall Test**

Passes the requirements of AS5039 and AS5041

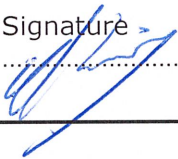
**Remarks:**

The Impact tests didn't gain any access.

No preliminary points could be created to apply the jemmy test fixture, so

This sample passed the Jemmy Test by default.

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This signature indicates that testing has been conducted in accordance to the current AS 5039-2003, and test results reflect the test findings.		
Authorised Signature ..... 	Print Name/Title C.Korvin/Lab Manager..... .....	Date .....20/02/2019.....

**Identification Details for Security Window Grille**  
**Submitted for Type Testing in Accordance to AS 5039/5041-2003**  
(Informative)

**General**

<b>Model Number / Name:</b>	Hinge Window Security Screen with Protec Aluminium security mesh	This information to be clearly marked on test window.
<b>Sample Number:</b>	P01-000256	
<b>Manufactured By:</b>	Prowler Proof	
<b>Date of Submission:</b>	6/02/2019	
<b>Description:</b>	An Aluminium hinge window security screen containing perforated aluminium mesh infill	
DRAWINGS: COMPLETE ATTACHED SHEETS (Figure 1 and 2) (To show additional specific details of door construction such as internal stiffening, hinging, etc., attach further sheets as necessary)		

**Framing Section**

<b>Type:</b>	Extruded Aluminium		
<b>Manufacturer's- Name:</b>	Capral	<b>Section Number:</b>	P01-000208&P01-000209
<b>Attached Dimensional Drawing- Number:</b>	P01-000208/P01-000208	<b>Issue:</b>	1/1
<b>Material Type and Grade:</b>	6060-T5		
<b>Surface Finish:</b>	Powder coat		
<b>Mass per Metre Length (kg):</b>	0.798kg/m		
<b>Mounting Frame Material:</b>	Pinus radiata		
(Attach drawings if necessary)			

**Corner Stake**

<b>Type:</b>	None - welded		
<b>Manufacturer's- Name:</b>	Prowler Proof	<b>Section Number:</b>	
<b>Attached Dimensional Drawing- Number:</b>		<b>Issue:</b>	
<b>Material Type and Grade:</b>			
<b>Surface Finish:</b>			
(If a corner stake is not used, describe the method of joining the frames)			
<b>Fastener Details:</b>			
<b>Type:</b>	Welded		
<b>Part Number:</b>			
<b>Material</b>	Alum	x	St.Steel
			Monel
			Steel
			OTHER
<b>Surface Finish:</b>	Machine finish converted and powder coated to Qualicoat standards		
<b>Length and Diameter:</b>	NA		

(Attach drawings if necessary)

**Mid Rail** (If applicable)

<b>Type:</b> _____																	
<b>Manufacturer's-</b>	<b>Name:</b> _____																
<b>Attached Dimensional Drawing-</b>	<b>Section Number:</b> _____																
	<b>Issue:</b> _____																
<b>Material Type and Grade:</b> _____																	
<b>Mass per Meter Length (kg):</b> _____																	
<b>Surface Finish:</b> _____																	
<b>Means of Securing to-</b>	<b>Frame:</b> <table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 50px;">Weld</td> <td style="width: 30px;"> </td> <td style="width: 50px;">Screw</td> <td style="width: 30px;"> </td> <td style="width: 50px;">Rivet</td> <td style="width: 30px;"> </td> <td style="width: 50px;">Other</td> <td style="width: 30px;"> </td> </tr> <tr> <td>Weld</td> <td> </td> <td>Screw</td> <td> </td> <td>Rivet</td> <td> </td> <td>Other</td> <td> </td> </tr> </table>	Weld		Screw		Rivet		Other		Weld		Screw		Rivet		Other	
	Weld		Screw		Rivet		Other										
Weld		Screw		Rivet		Other											
<b>Infill:</b>	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 50px;">Weld</td> <td style="width: 30px;"> </td> <td style="width: 50px;">Screw</td> <td style="width: 30px;"> </td> <td style="width: 50px;">Rivet</td> <td style="width: 30px;"> </td> <td style="width: 50px;">Other</td> <td style="width: 30px;"> </td> </tr> <tr> <td>Weld</td> <td> </td> <td>Screw</td> <td> </td> <td>Rivet</td> <td> </td> <td>Other</td> <td> </td> </tr> </table>	Weld		Screw		Rivet		Other		Weld		Screw		Rivet		Other	
Weld		Screw		Rivet		Other											
Weld		Screw		Rivet		Other											
(If means of securing is OTHER, submit full details on a separate sheet)																	
<b>Weld Details:</b>																	
<b>Type of Weld and Pattern:</b> _____																	
_____																	
<b>Fastener Details:</b>																	
<b>Type:</b> _____																	
<b>Part Number:</b> _____																	
<b>Material</b>	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 50px;">Alum</td> <td style="width: 30px;"> </td> <td style="width: 50px;">St.Steel</td> <td style="width: 30px;"> </td> <td style="width: 50px;">Monel</td> <td style="width: 30px;"> </td> <td style="width: 50px;">Steel</td> <td style="width: 30px;"> </td> <td style="width: 50px;">OTHER</td> <td style="width: 30px;"> </td> </tr> </table>	Alum		St.Steel		Monel		Steel		OTHER							
Alum		St.Steel		Monel		Steel		OTHER									
<b>Surface Finish:</b> _____																	
<b>Length and Diameter:</b> _____																	
<b>Number Used and Location:</b> _____																	
_____																	
(Attach drawings if necessary)																	

**Locks** (If applicable)

<b>Type:</b> (Description of mechanism including cylinder)	Internal handle only. No cylinder. Roto NT multipoint Euro locking and strikers		
<b>Manufacturer's-</b>	<b>Name:</b> Giesse/Schleger and Roto	<b>Part Number:</b> 141419	
<b>Construction Material-</b>	<b>Body:</b> Diecast zinc	<b>Striker:</b> Roto diecast zinc	
<b>Number of Locking Points:</b>	6		
<b>Handle (furniture) Identification:</b>	141419 Flush handle, no key-black		
<b>Means of Mounting:</b>	Mechanical fastening (screw x 2)		
<b>Mounting Location:</b>	Centred on left or right hand vertical, depending on handing		



**Infill**

<b>Type and Fabrication Method:</b>	Protec perforated sheet mechanically bonded to aluminium frame									
<b>Manufacturer's-</b>	<b>Name:</b> Protec				<b>Part Number:</b> 102968					
<b>Attached Dimensional Drawing-</b>	<b>Number:</b>				<b>Issue:</b>					
<b>Material Type and Grade:</b>	Aluminium									
<b>Surface Finish:</b>	Black low sheen									
<b>Diameter of Type 3 Infill:</b>	1.8mm thick sheet									
<b>Means of Securing:</b>	Weld		Screw		Rivet		Other	X		
(If means of securing is OTHER, submit full details on a separate sheet)										
<b>Weld Details:</b>										
<b>Type of Weld and Pattern:</b>										
<b>Fastener Details:</b>										
<b>Type:</b>	<b>Part Number:</b>									
<b>Material</b>	Alum		St.Steel		Monel		Steel		OTHER	
<b>Surface Finish:</b>										
<b>Length and Diameter:</b>										
<b>Number Used and Location:</b>	Indicate on figure 2									
(Attach drawings if necessary)										

**Hinges** (If applicable)

<b>Type:</b>	Roto NT				<b>Number Fitted:</b> NA					
<b>Manufacturer's-</b>	<b>Name:</b>				<b>Part Number:</b>					
<b>Attached Dimensional Drawing-</b>	<b>Number:</b>				<b>Issue:</b>					
<b>Material Type and Grade-</b>	<b>Leaves:</b> Galvanised folded steel sheet				<b>Pin:</b> Solid					
<b>Surface Finish:</b>										
<b>Means of Securing:</b>	Weld		Screw	x	Rivet		Other			
<b>Weld Details:</b>										
<b>Type of Weld and Pattern:</b>										
<b>Fastener Details: Wurth</b>										
<b>Type:</b>	<b>Part Number:</b> 020542 25									
<b>Material</b>	Alum		St.Steel		Monel		Steel	x	OTHER	
<b>Surface Finish:</b>	Galvanised zinc									
<b>Length and Diameter:</b>	3.5 x 25mm									
<b>Number Used and Location:</b>	See attached drawing									
(indicate on figure 1) (Attach drawings if necessary)										

**Track or Build Outs** (If applicable)

<b>Type:</b> <u>NA</u>										
<b>Manufacturer's-</b>			<b>Name:</b> _____				<b>Part Number:</b> _____			
<b>Attached Dimensional Drawing-</b>			<b>Number:</b> _____				<b>Issue:</b> _____			
<b>Material Type and Grade:</b> _____										
<b>Surface Finish:</b> _____										
<b>Fastener Details:</b>										
<b>Type:</b> _____					<b>Part Number:</b> _____					
<b>Material</b>	Alum	<input type="checkbox"/>	St.Steel	<input type="checkbox"/>	Monel	<input type="checkbox"/>	Steel	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
<b>Surface Finish:</b> _____										
<b>Length and Diameter:</b> _____										
<b>Number Used and Location:</b> _____										
(indicate on figure 1)					(Attach drawings if necessary)					

**Interlock** (If applicable)

<b>Type:</b> <u>NA</u>										
<b>Manufacturer's-</b>			<b>Name:</b> _____				<b>Part Number:</b> _____			
<b>Attached Dimensional Drawing-</b>			<b>Number:</b> _____				<b>Issue:</b> _____			
<b>Material Type and Grade:</b> _____										
<b>Surface Finish:</b> _____										
<b>Fastener Details:</b>										
<b>Type:</b> _____					<b>Part Number:</b> _____					
<b>Material</b>	Alum	<input type="checkbox"/>	St.Steel	<input type="checkbox"/>	Monel	<input type="checkbox"/>	Steel	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
<b>Surface Finish:</b> _____										
<b>Length and Diameter:</b> _____										
<b>Number Used and Location:</b> _____										
(indicate on figure 1)					(Attach drawings if necessary)					

**Rollers** (If applicable)

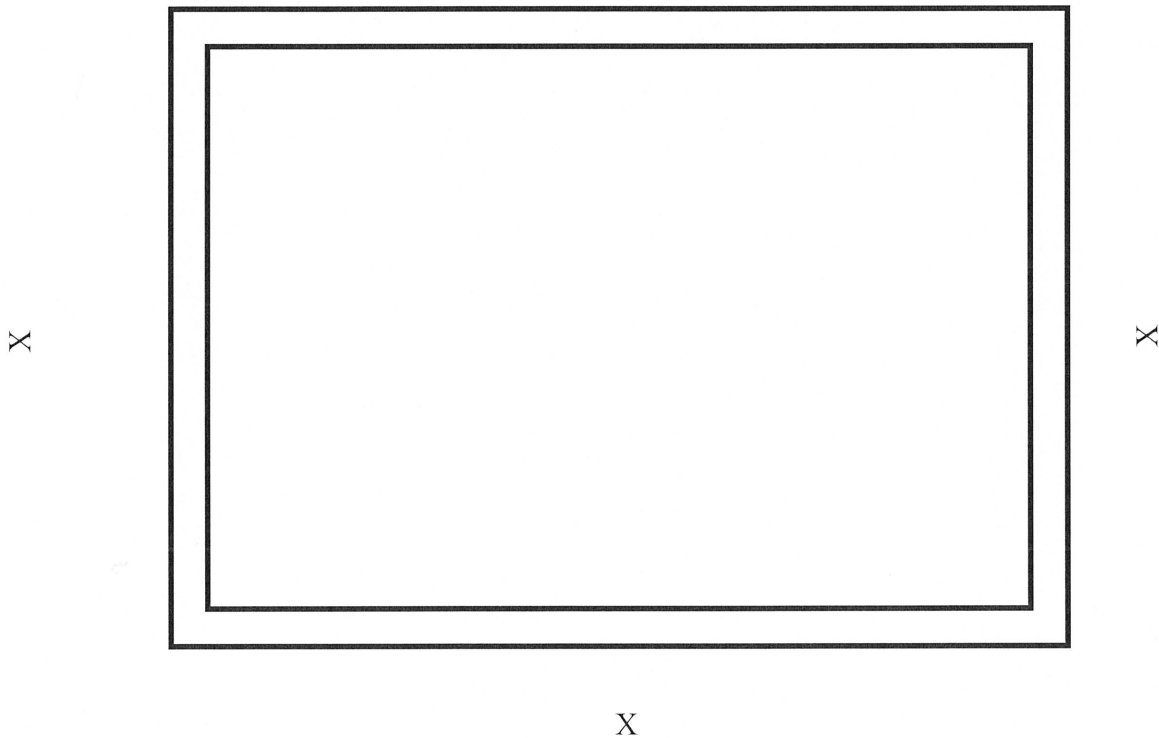
<b>Type:</b> <u>NA</u>									
<b>Manufacturer's-</b>			<b>Name:</b> _____				<b>Part Number:</b> _____		
<b>Attached Dimensional Drawing-</b>			<b>Number:</b> _____				<b>Issue:</b> _____		
<b>Number Used and Location:</b> _____									
(indicate on figure 1)					(Attach drawings if necessary)				

**Manufactured By:** Prowler Proof  
**Sample Number:** P01-000256

**Location of Fixing Points, Locking Points, Hinges and Mid-Rail.**

**All Dimensions in Millimetres.**

Concealed- see drawing P01-000256



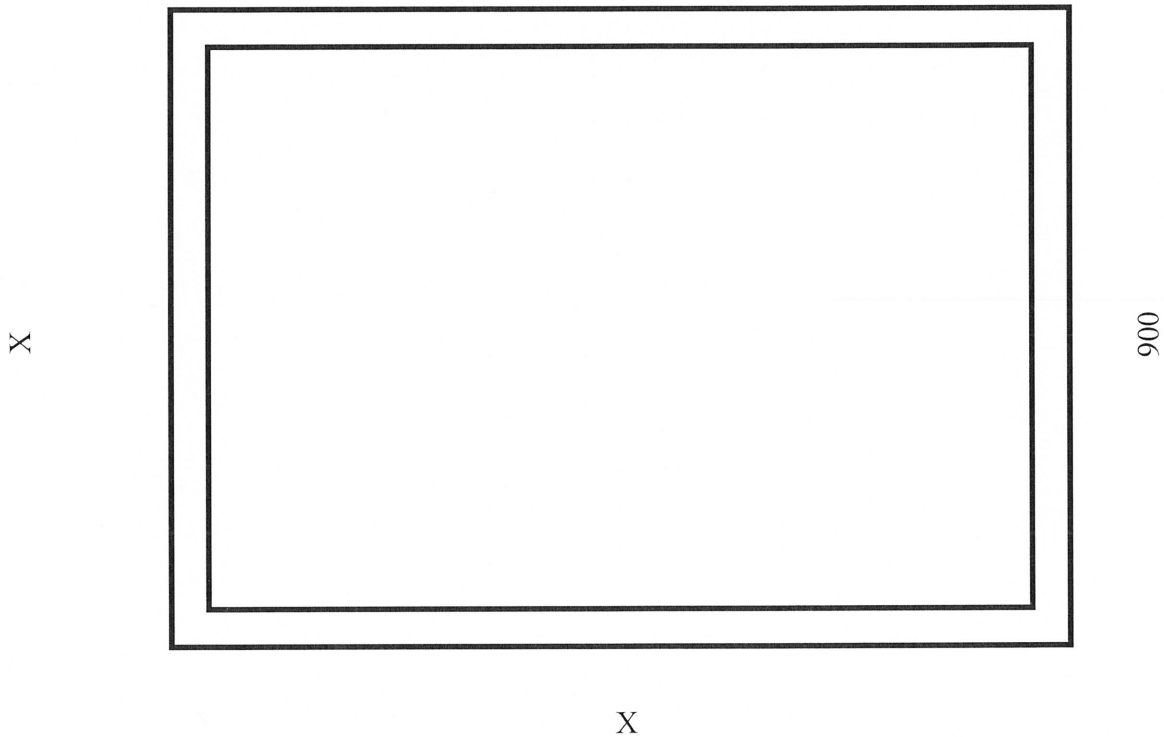
**Figure 1**

**Manufactured By:** Prowler Proof  
**Sample Number:** P01-000256

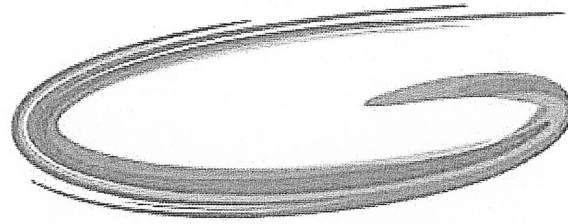
**Means of Securing Infill to Framing, Location of Welds / Fasteners**

**All Dimensions in Millimetres.**

1500  
All around inner section part



**Figure 2**



**A Z U M A**  
Design

# Laboratory Report

Date

14-October-2014

Customer

Prowler Proof

Test No :

AZT0304.14



NATA Accredited Laboratory No.: 15147

Azuma Design Pty Limited  
52 Justin street Smithfield. NSW 2164 Ph 02 9604 0255 E-Mail info@azumadesign.com.au

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# AZUMA DESIGN

## TESTING LABORATORY REPORT



SIGNATORIES

Reported by: Robert Irwin <i>[Signature]</i>
Checked by: Ashley Horne <i>[Signature]</i>

Date: 14-Oct-14
Test No: AZT0304.14

NATA Accredited Laboratory No.: 15147

Pass/ Fail requirements to AS 5041

Test data and results as shown.

**Passed**

Reason for test  
AS 5041 Conformance.

Knife shear testing

Manufacturer

Customer

Prowler Proof

Description of product

Perforated Mesh 645 x 645mm

Results

	Length of complete penetration (in mm)	New Blade used (Yes / No)
Test number 1	0	Yes
Test number 2	0	Yes
Test number 3	12.5	Yes

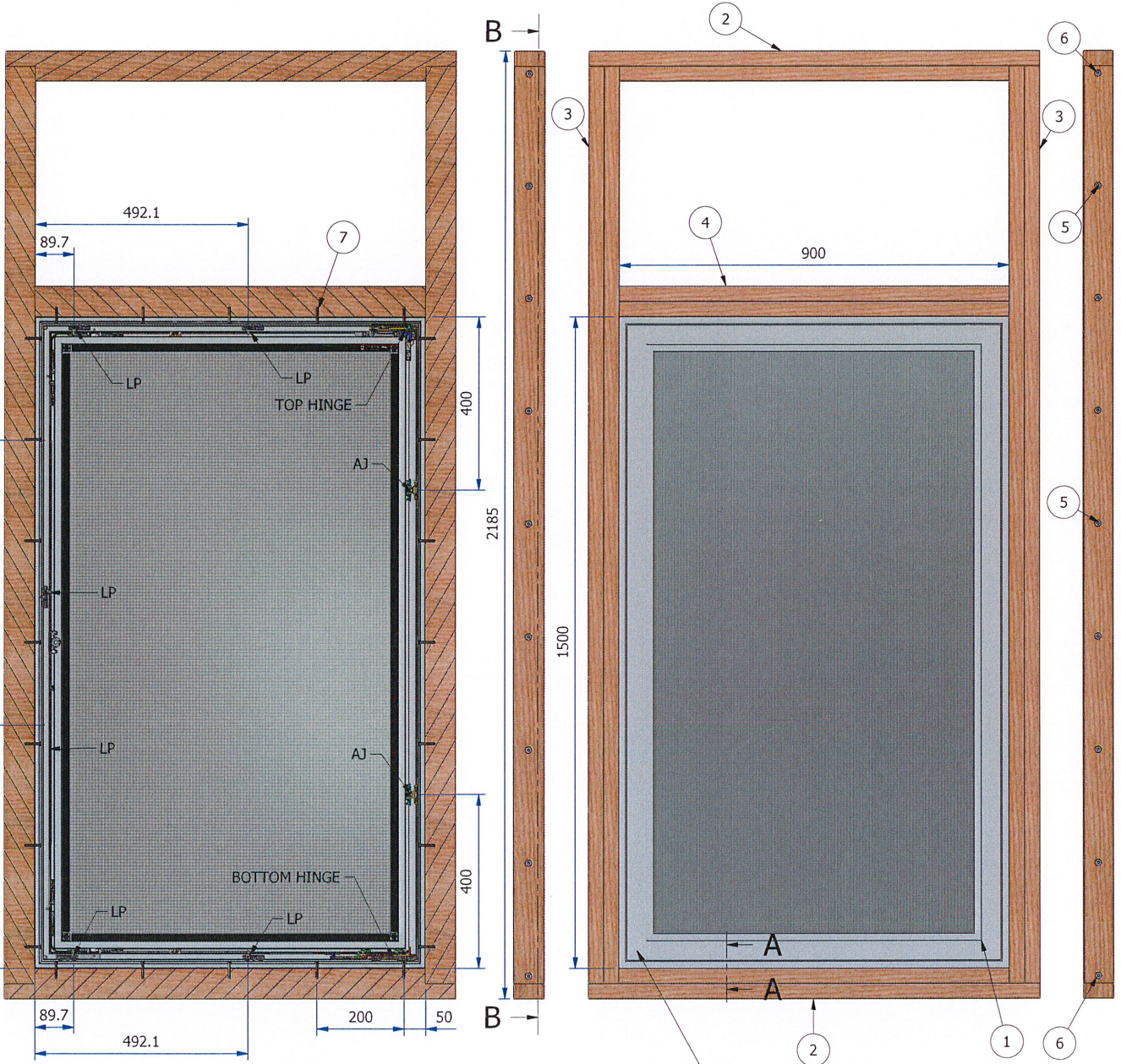
Observations

1. Knife snagged and held for 20 seconds.
2. On the second pass the knife snagged and the blade tip snapped. The snag was held for 20 seconds.
3. On the third pass the blade penetrated the mesh for 12.5mm then snag held for 20 seconds.

BILL OF MATERIALS			
ITEM	PART NUMBER	DESCRIPTION	QTY
1	P01-000210	HINGED WINDOW SYSTEM DESIGN	1
2	P01-000252	TEST FRAME STRUCTURAL SUPPORT TOP/BOTTOM	2
3	P01-000253	TEST FRAME STRUCTURAL SUPPORT SIDES	2
4	P01-000254	TEST FRAME STRUCTURAL SUPPORT CENTRE	1
5		Bugle Head Batten Screw 14gx50mm	25
6		Bugle Head Batten Screw 14gx100mm	10
7	ANSI B18.6.5M - M5x0.8 x 35 - F - I	Cross Recessed Pan Head Tapping Screw - Type F - Type I - Metric	24

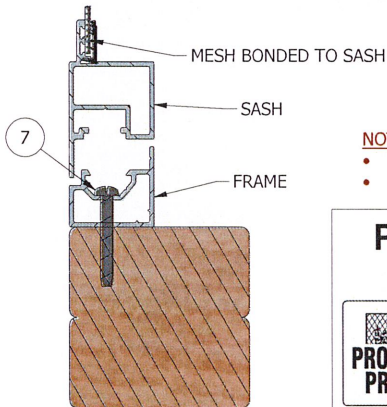
A

A



SECTION B-B

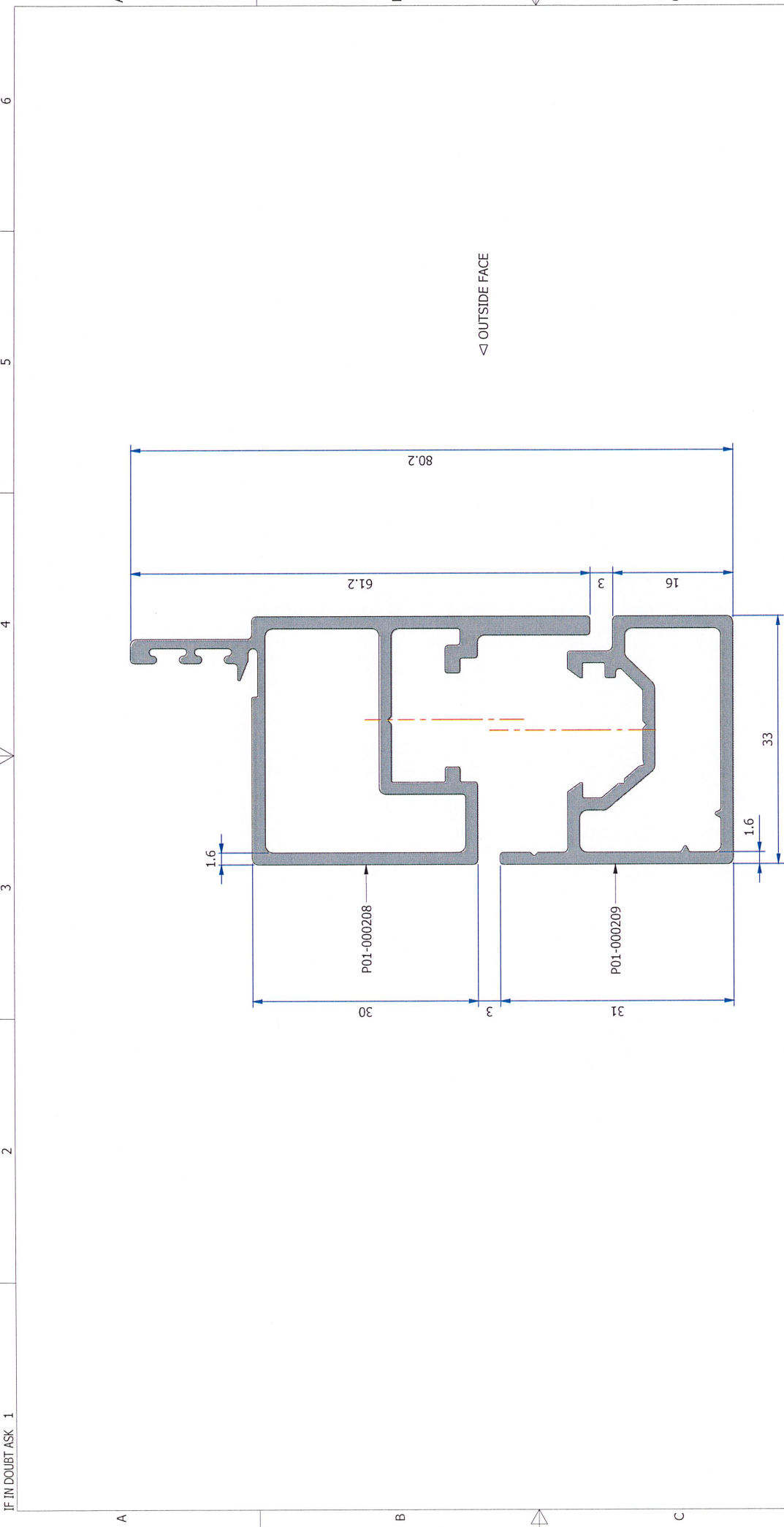
WELDED CORNERS FOR SASH AND FRAME



SECTION A-A

- NOTES:**
- AJ = ANTI-JEMMY
  - LP = LOCKING POINT

<p><b>Prowler Proof</b> Gershwin Pty Ltd</p> <p>122 BUCHANAN RD BANYO, QLD. 4014 PH: +61 7 3363 0666 FAX: +61 7 3267 5411</p>		<p>DRAWN: A.HOW DATE: 18-Jan-19</p> <p>CHECKED: DATE</p> <p>APPR. DATE</p> <p>RAW MATERIAL</p>	<p>TITLE: <b>HINGE WINDOW SYSTEM - PROTEC TEST FRAME</b></p> <p>PART NUMBER: P01-000256</p> <p>PROWLER PROOF PROJECT CODE:</p>	<p>DRAWING DOCUMENT FILE NAME: P01-000256.idw</p> <p>MODEL DOCUMENT FILE NAME: P01-000256.iam</p> <p>SHEET 1 OF 1</p> <p>SCALE:</p> <p>SEE VIEW</p> <p>REV:</p>
<p>© THIS DRAWING AND ITS CONTENTS ARE CONFIDENTIAL AND ARE SUBJECT TO RETURN ON DEMAND AND MAY NOT BE COPIED OR DISCLOSED TO ANY THIRD PARTY OR USED DIRECTLY OR INDIRECTLY FOR ANY OTHER PURPOSE THAN AS EXPRESSLY DETERMINED IN WRITING BY Gershwin Pty. Ltd.</p>		<p>UNLESS OTHERWISE SPECIFIED</p> <p>X = ±1mm X.X = ±0.5mm X.XX = ±0.25mm</p>	<p>MACHINE FINISHES = 3.2</p> <p>± 1°</p>	<p>ALL DIMENSIONS IN MILLIMETERS</p> <p>ALL THREAD TO BE METRIC COARSE</p> <p>ALL WELDS TO AS1554</p> <p>ALL BURRS AND SHARP EDGES TO BE REMOVED</p>
<p>DO NOT SCALE DRAWING</p>		<p>WEIGHT: N/A</p>	<p>SHEET SIZE: A3</p>	<p>3RD ANGLE PROJECTION</p>



DRAWN		DATE	TITLE:		SHEET	
Draw	05-Feb-18	HINGED WINDOW SYSTEM		1	OF	
CHECKED			(CONTROL SKETCH)	1	1	
APPR.	DATE	PART NUMBER:	SCALE:	SEE VIEW		
		P01-000207	P01-000207.dwg	SEE VIEW		
RAW MATERIAL	PROWLER PROJECT CODE:		P01-000207.dwg	REV:		
Generic				C		
<p>© THIS DRAWING AND ITS CONTENTS ARE CONFIDENTIAL AND ARE SUBJECT TO OUR PATENT RIGHTS. ANY REPRODUCTION, DIRECTLY OR INDIRECTLY FOR ANY OTHER PURPOSE THAN AS EXPRESSLY DETERMINED IN WRITING BY Gershwin Pty. Ltd.</p>		<p>UNLESS OTHERWISE SPECIFIED</p> <p>X = ±1mm</p> <p>X.X = ±0.5mm</p> <p>X.XX = ±0.25mm</p>		<p>ALL DIMENSIONS IN MILLIMETERS</p> <p>ALL THREADS TO BE METRIC COARSE</p> <p>ALL WELDS TO AS1554</p> <p>ALL BURRS AND SHARP EDGES TO BE REMOVED</p>		
<p><b>Prowler Proof</b> Gershwin Pty Ltd</p> <p>122 BUCHANAN RD BANYO, QLD, 4014 PH: +61 7 3363 0666 FAX: +61 7 3267 5411</p>		<p>DO NOT SCALE DRAWING</p>		<p>WEIGHT: N/A</p> <p>SHEET SIZE: A3</p>		
<p>122 BUCHANAN RD BANYO, QLD, 4014 PH: +61 7 3363 0666 FAX: +61 7 3267 5411</p>		<p>DO NOT SCALE DRAWING</p>		<p>WEIGHT: N/A</p> <p>SHEET SIZE: A3</p>		
REV. No.	REVISION DESCRIPTION	DRAWN	DATE	APP. BY	DATE	
A	INITIAL RELEASE - PREVIOUS REVISIONS SUPERSEDED					
	REVISION HISTORY					
1						