

ASSA ABLOY AUSTRALIA  
235 Huntingdale Rd  
Oakleigh, VIC 3166

## **TEST REPORT (6180)**

### **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:**

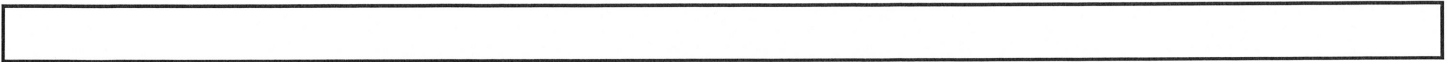
<b>Test Report Security Window Grille</b>		
<b>Test Report Number:</b>	6180	<b>PAM Number:</b>
<b>Manufactured By:</b>	Prowler Proof	<b>Date of Submission:</b>
<b>Tested By:</b>	D Gough	<b>Date:</b> 6/2/2019
<b>Certified By:</b>	C Korvin	<b>Date:</b> 6/2/2019
<b>Witnessed By:</b>	Adam How	<b>Date:</b> 6/2/2019

#### 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>	P01-000257
<b>Frame Size:</b>	1640 x 1045
<b>Framing Material:</b>	Pinus radiata
<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	102968
<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>	Aluminium sheet 1.8mm thick	
<b>Mass per m<sup>2</sup> (kg):</b>	Not given	
<b>Knife Shear Test:</b>	Yes. Azuma Report AZT0304.14 (14/10/2014) 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			
Test	Remarks	Pass	Fail
Impact One:	10mm deformation - no access	Yes	
Impact Two:	15mm deformation - no access	Yes	
Impact Three:	20mm deformation - no access	Yes	
Impact Four:	20mm deformation - no access	Yes	
Impact Five:	20mm deformation - no access	Yes	
150mm Diameter Probe	NA		
Infill Type Probe test:	Yes <3mm passes		

### Jemmy Tests – AS 5039/5041-2003

Location	Remarks	Pass	Fail
Centre Locking Point:	No preliminary access points could be created for the Jemmy fixture to be applied, therefore passes by default	Yes	
Bottom Locking Point:	As above	Yes	
Top Locking Point:	As above	Yes	
Centre Hinge:	As above	Yes	
Bottom Hinge	As above	Yes	
Top Hinge:	As above	Yes	

### 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**

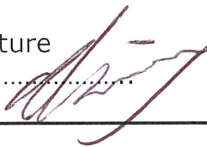
Passes the requirements of AS5039 and 5041

**Remarks:**

No access was gained from any of the impacts.

The preliminary jemmy preparation was futile to create spots in order to use the Jemmy fixture. Therefore passes by default.

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 20/2/2019

**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>	P01-000257	
<b>Manufactured By:</b>	Prowler Proof	
<b>Date of Submission:</b>	6/2/2019	
<b>Description:</b>	An aluminium hinge window security screen containing perforated aluminium mesh infill	
	DRWG P01-000257	
	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>	NA							
<b>Attached Dimensional Drawing- Number:</b>	NA	<b>Issue:</b>	NA							
<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 finished converted and powder coated to Qualicoat standards									
<b>Length and Diameter:</b>										

(Attach drawings if necessary)



**Mid Rail** (If applicable)

<b>Type:</b> NA																			
<b>Manufacturer's-</b>	<b>Name:</b> _____																		
<b>Attached Dimensional Drawing-</b>	<b>Section Number:</b> _____																		
<b>Material Type and Grade:</b>	<b>Number:</b> _____																		
<b>Mass per Meter Length (kg):</b>	<b>Issue:</b> _____																		
<b>Surface Finish:</b> _____																			
<b>Means of Securing to-</b>	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td><b>Frame:</b></td> <td>Weld</td><td><input type="checkbox"/></td> <td>Screw</td><td><input type="checkbox"/></td> <td>Rivet</td><td><input type="checkbox"/></td> <td>Other</td><td><input type="checkbox"/></td> </tr> <tr> <td><b>Infill:</b></td> <td>Weld</td><td><input type="checkbox"/></td> <td>Screw</td><td><input type="checkbox"/></td> <td>Rivet</td><td><input type="checkbox"/></td> <td>Other</td><td><input type="checkbox"/></td> </tr> </table>	<b>Frame:</b>	Weld	<input type="checkbox"/>	Screw	<input type="checkbox"/>	Rivet	<input type="checkbox"/>	Other	<input type="checkbox"/>	<b>Infill:</b>	Weld	<input type="checkbox"/>	Screw	<input type="checkbox"/>	Rivet	<input type="checkbox"/>	Other	<input type="checkbox"/>
	<b>Frame:</b>	Weld	<input type="checkbox"/>	Screw	<input type="checkbox"/>	Rivet	<input type="checkbox"/>	Other	<input type="checkbox"/>										
<b>Infill:</b>	Weld	<input type="checkbox"/>	Screw	<input type="checkbox"/>	Rivet	<input type="checkbox"/>	Other	<input type="checkbox"/>											
(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="width:100%; border-collapse: collapse;"> <tr> <td>Alum</td><td><input type="checkbox"/></td> <td>St.Steel</td><td><input type="checkbox"/></td> <td>Monel</td><td><input type="checkbox"/></td> <td>Steel</td><td><input type="checkbox"/></td> <td>OTHER</td><td><input type="checkbox"/></td> </tr> </table>	Alum	<input type="checkbox"/>	St.Steel	<input type="checkbox"/>	Monel	<input type="checkbox"/>	Steel	<input type="checkbox"/>	OTHER	<input type="checkbox"/>								
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> _____																			
(Attach drawings if necessary)																			

**Locks** (If applicable)

<b>Type:</b> (Description of mechanism including cylinder)	Internal handle, no cylinder, with Roto NT multipoint Euro locking and strikers		
<b>Manufacturer's-</b>	<b>Name:</b> Giesse/Schlegel 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 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> NA			<b>Issue:</b> NA						
<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>						
<b>Manufacturer's-</b>	<b>Name:</b> Roto			<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:</b>										
<b>Type:</b> Wurth										
<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- Attached Dimensional Drawing-</b>	<b>Name:</b> _____ <b>Number:</b> _____										
<b>Material Type and Grade:</b>	<b>Part Number:</b> _____ <b>Issue:</b> _____										
<b>Surface Finish:</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> _____											
(indicate on figure 1) _____ (Attach drawings if necessary)											

**Interlock** (If applicable)

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

**Rollers** (If applicable)

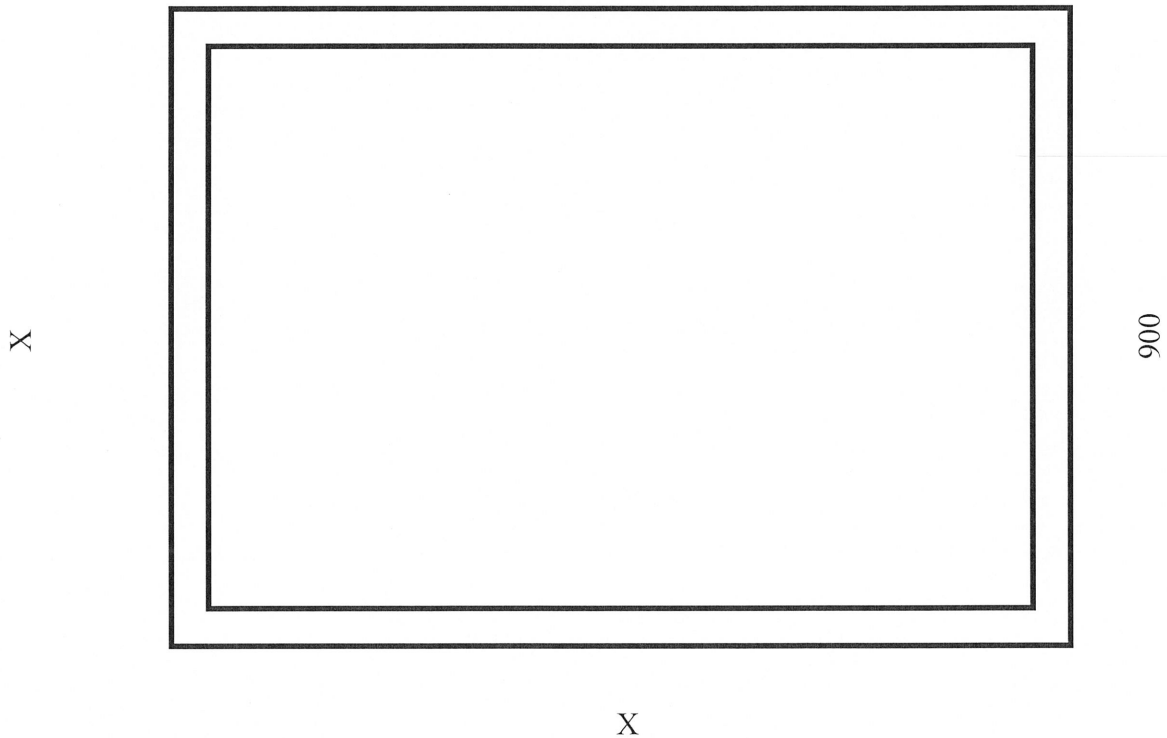
<b>Type:</b> <u>NA</u>											
<b>Manufacturer's- Attached Dimensional Drawing-</b>	<b>Name:</b> _____ <b>Number:</b> _____										
<b>Material Type and Grade:</b>	<b>Part Number:</b> _____ <b>Issue:</b> _____										
<b>Surface Finish:</b> _____											
<b>Fastener Details:</b>											
<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> _____											
(indicate on figure 1) _____ (Attach drawings if necessary)											

<b>Manufactured By:</b>	Prowler Proof
<b>Sample Number:</b>	P01-000257

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

**All Dimensions in Millimetres.**

1500  
See drawing P01-000257



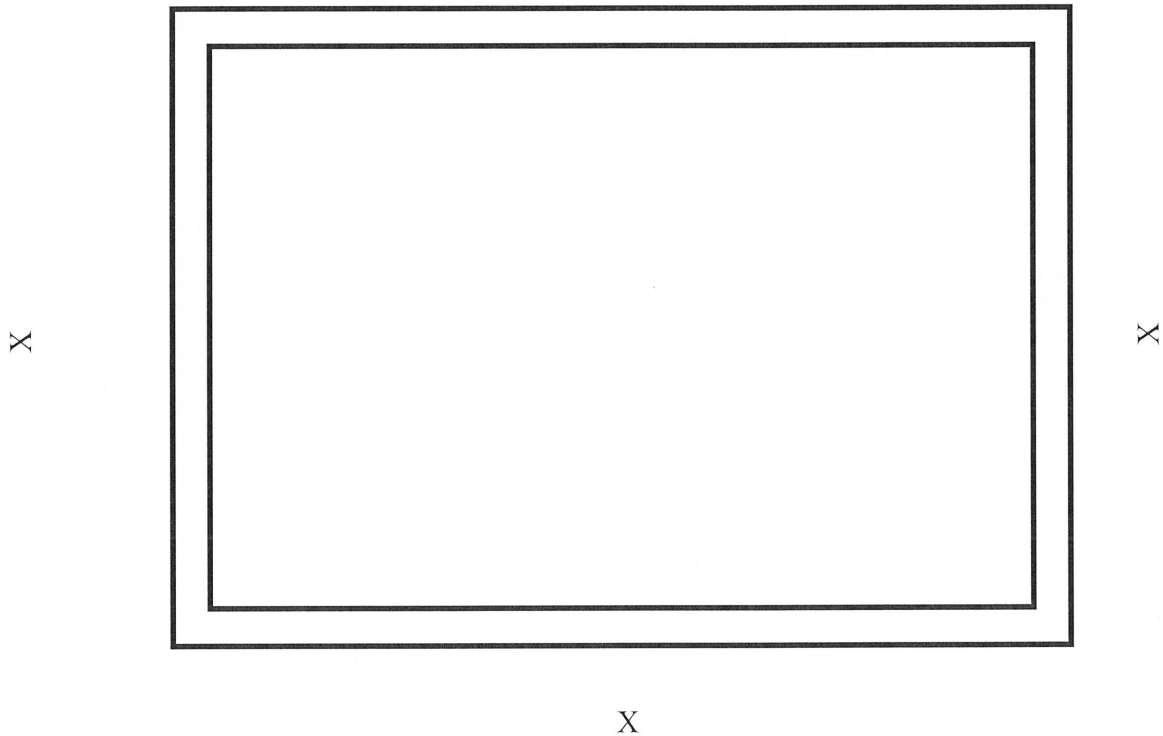
**Figure 1**

<b>Manufactured By:</b>	Prowler proof
<b>Sample Number:</b>	P01-000257

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

**All Dimensions in Millimetres.**

Secured to inner part of extrusion all the way around



**Figure 2**



# 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](mailto:info@azumadesign.com.au)

This document is issued in accordance with NATA's accreditation requirements.  
Accredited for compliance with ISO/IEC 17025.  
This document shall not be reproduced, except in full.

**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

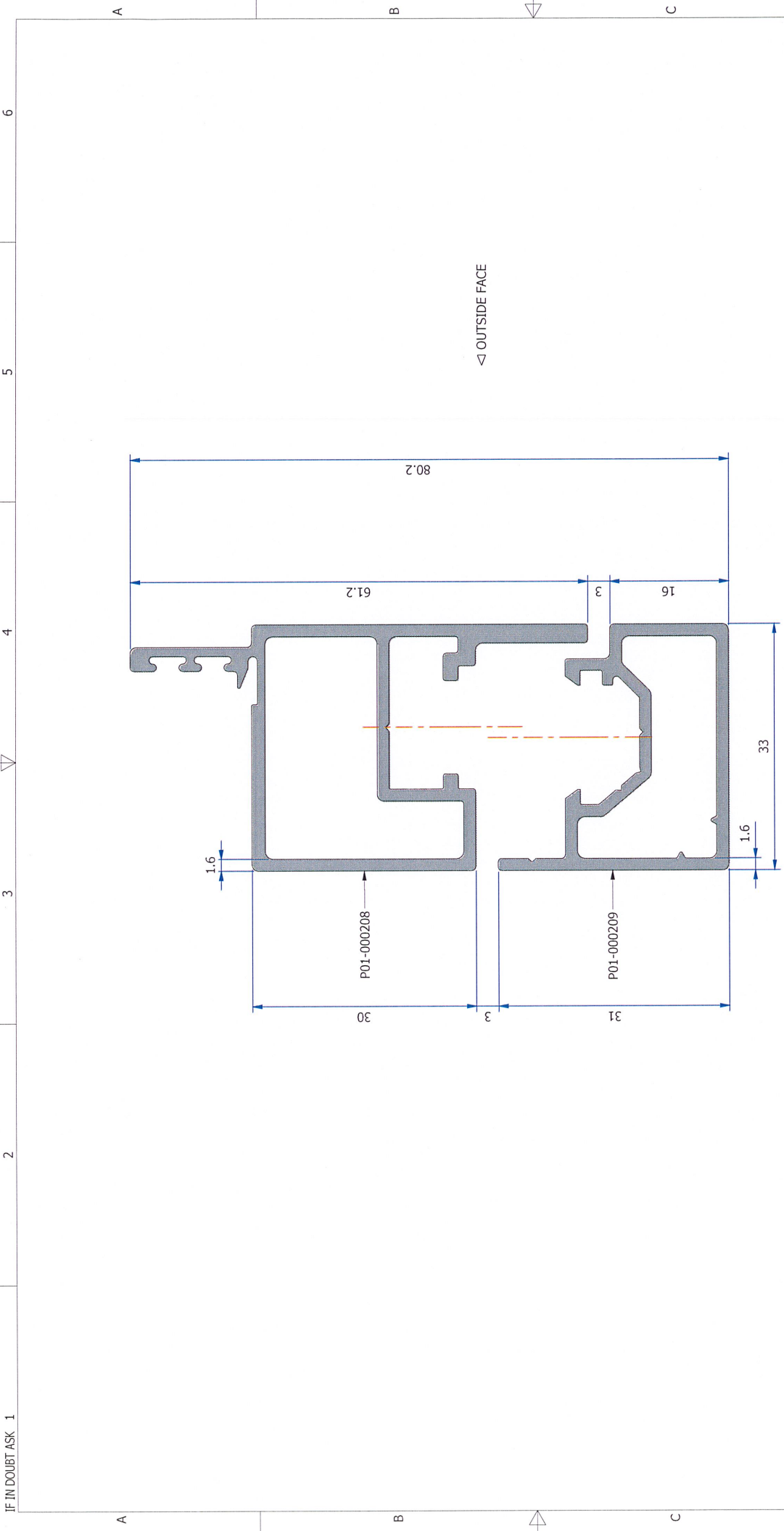
Perforated Mesh 645 x 645mm


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.



<b>Prowler Proof</b> Gershwin Pty Ltd 		DRAWN Draw CHECKED DATE 05-Feb-18	DATE 05-Feb-18	TITLE <b>HINGED WINDOW SYSTEM          (CONTROL SKETCH)</b>	SHEET 1 OF 1
122 BUCHANAN RD BANYO, QLD, 4014 PH: +61 7 3363 0666 FAX: +61 7 3267 5411		APPR. DATE P01-000207 PRAWLER PROOF PROJECT CODE:	DRAWING DOCUMENT FILE NAME: P01-000207.dwg PLOT DOCUMENT FILE NAME: P01-000207.plt	SCALE: SEE VIEW	REV: <b>C</b>
© THIS DRAWING AND ITS CONTENTS ARE CONFIDENTIAL AND ARE SUBJECT TO RETURN ON DEMAND AND MAY NOT BE REPRODUCED OR COPIED IN ANY MANNER WITHOUT THE EXPRESSLY DETERMINED IN WRITING BY Gershinwin Pty. Ltd.		UNLESS OTHERWISE SPECIFIED X = ± 1mm X.X = ± 0.5mm X.XX = ± 0.25mm		ALL DIMENSIONS IN MILLIMETERS ALL THREADS TO BE METRIC COARSE ALL WELDS TO AS1554 ALL BURRS AND SHARP EDGES TO BE REMOVED	3RD ANGLE PROJECTION
A INITIAL RELEASE - PREVIOUS REVISIONS SUPERSEDED	REVISION DESCRIPTION	DRAWN	DATE	APP. BY	DATE
REVISION HISTORY		DO NOT SCALE DRAWING		WEIGHT:	SHEET SIZE:
1		2		N/A	A3



IF IN DOUBT ASK

2

3

4

5

6

**NOTES:**

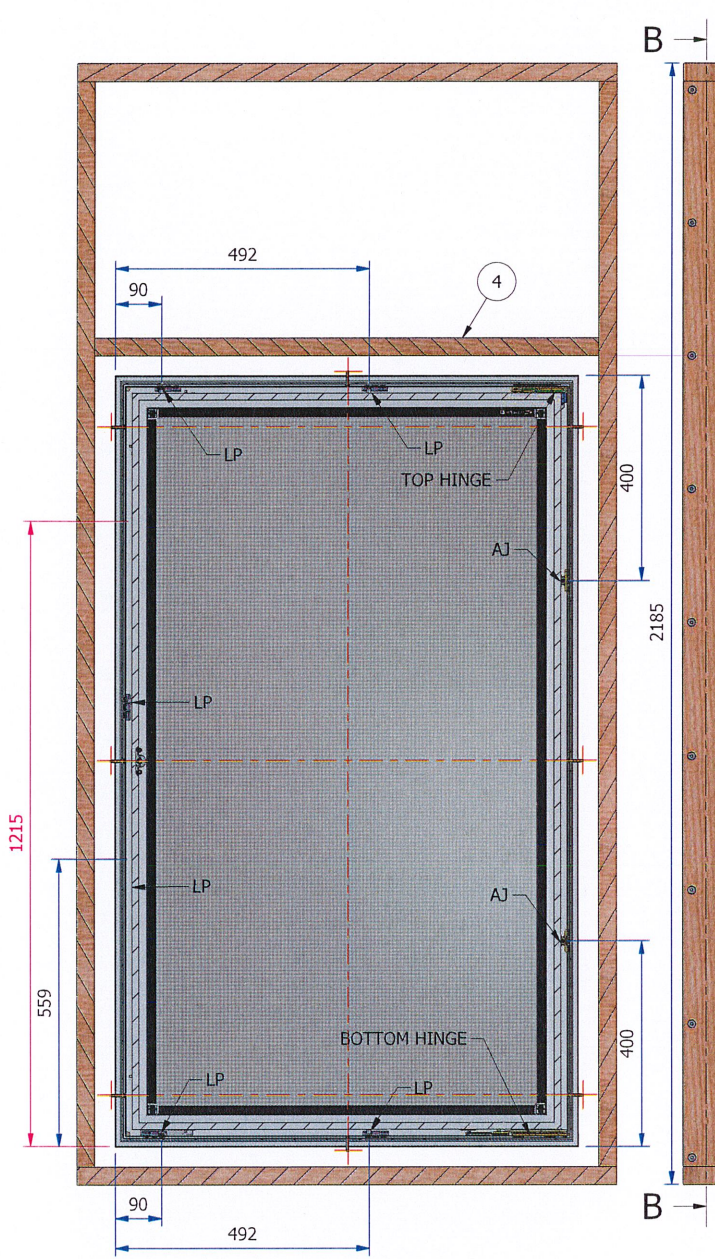
- AJ = ANTI-JEMMY
- LP = LOCKING POINT
- FRAME FIXED AT CENTRES, TOP, BOTTOM, LEFT, RIGHT AND 100mm FROM CORNERS ON LONGEST SIDES. (FIXING POINTS INDICATED BY RED CENTRELINES)

BILL OF MATERIALS			
ITEM	PART NUMBER	DESCRIPTION	QTY
1	P01-000210	HINGED WINDOW SYSTEM DESIGN	1
2	P01-000260	TEST FRAME STRUCTURAL SUPPORT TOP/BOTTOM	2
3	P01-000259	TEST FRAME STRUCTURAL SUPPORT SIDES	2
4	P01-000258	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	8

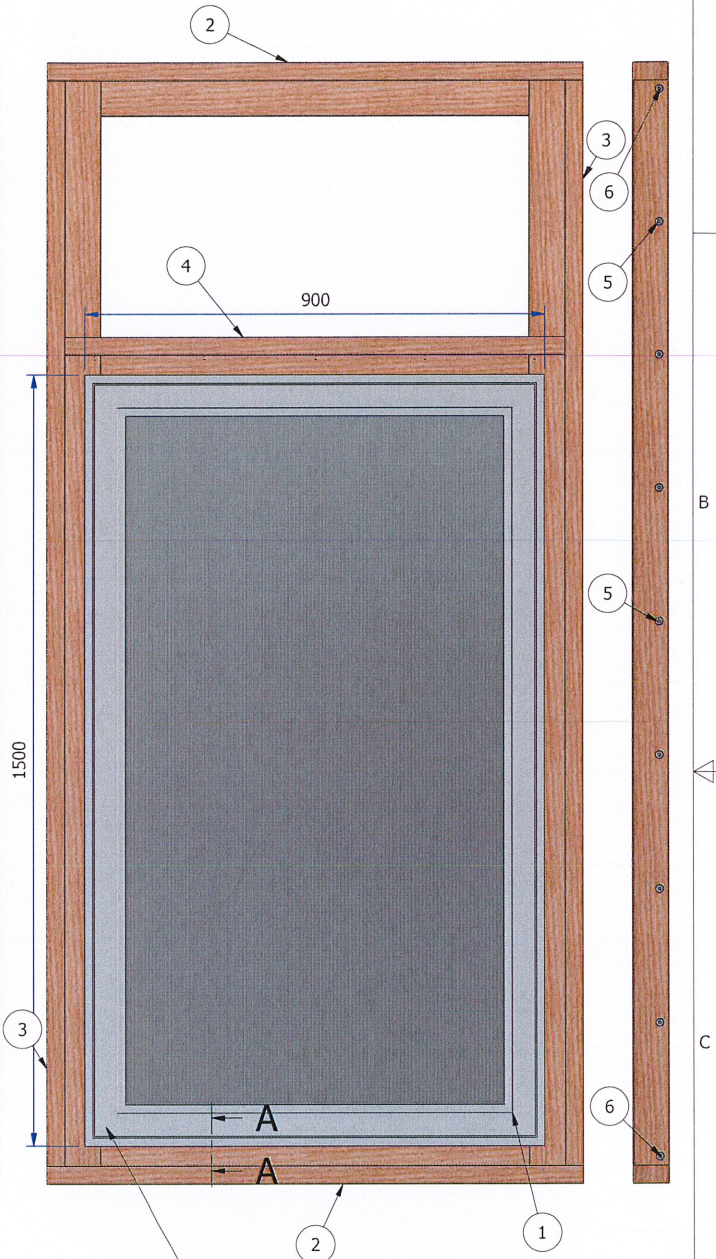
A

B

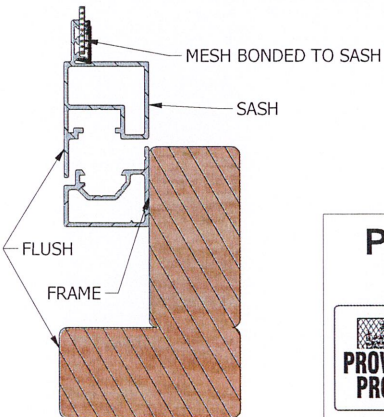
C



**SECTION B-B**



WELDED CORNERS FOR SASH AND FRAME



**SECTION A-A**

<b>Prowler Proof</b> Gershwin Pty Ltd		DRAWN A.HOW 18-Jan-19	DATE 18-Jan-19	TITLE: <b>HINGE WINDOW SYSTEM -                  PROTEC TEST FRAME</b>	SHEET 1 OF 1
122 BUCHANAN RD BANYO, QLD. 4014 PH: +61 7 3363 0666 FAX: +61 7 3267 5411		CHECKED DATE	APPR. DATE	PART NUMBER: <b>P01-000257</b>	SCALE: SEE VIEW
RAW MATERIAL		PROWLER PROOF PROJECT CODE:		DRAWING DOCUMENT FILE NAME: P01-000257.idw MODEL DOCUMENT FILE NAME: P01-000257.iam	REV:
© 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.		UNLESS OTHERWISE SPECIFIED X = ±1mm X.X = ±0.5mm X.XX = ±0.25mm		MACHINE FINISHES = 3.2 = ±1°	ALL DIMENSIONS IN MILLIMETERS ALL THREAD TO BE METRIC COARSE ALL WELDS TO AS1554 ALL BURRS AND SHARP EDGES TO BE REMOVED
DO NOT SCALE DRAWING		WEIGHT: N/A		SHEET SIZE: A3	

P01-257