

ASSA ABLOY AUSTRALIA
235 Huntingdale Rd
Oakleigh, VIC 3166

TEST REPORT (6211)

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

ENG54 / 9

Report No.: **6211**

Accredited for compliance with **ISO/IEC**
17025-Testing

Page 1 of 12

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Date of Issue: 14/03/2019

**Test Report
Security Window Grille**

Test Report Number:	6211	PAM Number:	
Manufactured By:	Prowler Proof	Date of Submission:	
Tested By:	D Gough	Date:	6/2/2019
Certified By:	C Korvin	Date:	6/2/2019
Witnessed By:	A How	Date:	6/2/2019

Details of Test Window

Type and Class:	Movable Class B
Make or Model:	Hinge Window Security Screen with Protec aluminium security mesh
Sample Number:	P01-000263
Frame Size:	1640 x 1045 mm wide
Framing Material:	Pine
Constructional Description of Test Security Window Grille:	
An aluminium hinged security screen containing aluminium mesh infill, face fixed to frame	

Details of Test Window Infill

Type and Fabrication Method:	Protec perforated sheet mechanically bonded to aluminium frame
Manufacturer's Name / Part Number:	Protec
Type 1 Mesh Infill (if applicable)	
1) Number of Intersected Strands in a 150mm Circle:	
2) Breaking Force in Shear of One Strand (min 3kN):	
Multiplication of Above Points 1 and 2 (min 30kN):	
Type 3 Mesh Infill (if applicable)	
Material Type and Grade:	Perforated aluminium sheet
Mass per m² (kg):	Not stated
Knife Shear Test:	Azuma Report AZTO304.14 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

Security Window Grille			
<u>Dynamic Impact Test – AS 5039/5041-2003</u>			
Measurement Before Impact Test at Impact Point (datum reading): 10mm			
Test	Remarks	Pass	Fail
Impact One:	10mm deformation	Y	
Impact Two:	15mm deformation	Y	
Impact Three:	16mm deformation	Y	
Impact Four:	17mm deformation	Y	
Impact Five:	18mm deformation	Y	
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 access points could be created to apply the jemmy fixture. Passes by default	Y	
Bottom Locking Point:	As above	Y	
Top Locking Point:	As above	Y	
Centre Hinge:	As above	Y	
Bottom Hinge	As above	Y	
Top Hinge:	As above	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)

150mm Spherical Probe Test (1.5kN):	Pass		Fail	
Remarks: _____				

Overall Test

Passes the requirements of AS5039 and AS5041


Remarks:

The impact tests didn't gain any access.

Trying to attack the face fixing flanges, the preliminary jemmy points couldn't be created in order to use the jemmy fixture.

So 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.....

Date14/03/2019.....

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

General

Model Number / Name:	Hinge Security Window	This information to be clearly marked on test window.
Sample Number:	P01-000263	
Manufactured By:	Gershwin Pty Ltd trading as Prowler Proof	
Date of Submission:	06-02-2019	
Description:	An aluminium hinge window security screen containing perforated aluminium sheet.	
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

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

Corner Stake

Type:	None - Welded		
Manufacturer's- Name:	Prowler Proof	Section Number:	N/A
Attached Dimensional Drawing- Number:	N/A	Issue:	N/A
Material Type and Grade:	N/A		
Surface Finish:	N/A		
(If a corner stake is not used, describe the method of joining the frames)			

Fastener Details:

Type:	Welded									
Part Number:										
Material	Alum	<input checked="" type="checkbox"/>	St.Steel	<input type="checkbox"/>	Monel	<input type="checkbox"/>	Steel	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
Surface Finish:	Machined finish converted and coated to Qualicoat standards									
Length and Diameter:										
(Attach drawings if necessary)										

Mid Rail (If applicable)

Type: <u>N/A</u>																			
Manufacturer's-	Name: _____																		
Attached Dimensional Drawing-	Number: _____																		
Material Type and Grade:	Section Number: _____																		
Mass per Meter Length (kg):	Issue: _____																		
Surface Finish: _____																			
Means of Securing to-	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>Frame:</td> <td>Weld</td><td></td> <td>Screw</td><td></td> <td>Rivet</td><td></td> <td>Other</td><td></td> </tr> <tr> <td>Infill:</td> <td>Weld</td><td></td> <td>Screw</td><td></td> <td>Rivet</td><td></td> <td>Other</td><td></td> </tr> </table>	Frame:	Weld		Screw		Rivet		Other		Infill:	Weld		Screw		Rivet		Other	
	Frame:	Weld		Screw		Rivet		Other											
Infill:	Weld		Screw		Rivet		Other												
(If means of securing is OTHER, submit full details on a separate sheet)																			
Weld Details:																			
Type of Weld and Pattern: _____																			
Fastener Details:																			
Type: _____																			
Part Number: _____																			
Material	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>Alum</td><td></td> <td>St.Steel</td><td></td> <td>Monel</td><td></td> <td>Steel</td><td></td> <td>OTHER</td><td></td> </tr> </table>	Alum		St.Steel		Monel		Steel		OTHER									
Alum		St.Steel		Monel		Steel		OTHER											
Surface Finish: _____																			
Length and Diameter: _____																			
Number Used and Location: _____																			
(Attach drawings if necessary)																			

Locks (If applicable)

Type: (Description of mechanism including cylinder)	Internal handle only, no cylinder, with Roto NT multipoint Euro locking and strikers. (multi locking espagnolette)	
Manufacturer's-	Name: <u>Roto</u>	Part Number: <u>N/A</u>
Construction Material-	Body: <u>Various metals</u>	Striker: <u>Die Cast</u>
Number of Locking Points:	<u>Various based on length of section</u>	
Handle (furniture) Identification:	<u>Flush handle</u>	
Means of Mounting:	<u>Screw fixing</u>	
Mounting Location:	<u>See drawing P01-000263 (attached)</u>	

Infill

Type and Fabrication Method:	Protec® perforated aluminium sheet mechanically and chemically bonded			
Manufacturer's-	Name: Commandex	Part Number:	-	
Attached Dimensional Drawing-	Number: N/A	Issue:		
Material Type and Grade:	1.7mm thick perforated aluminium sheet			
Surface Finish:	Powder coat black			
Diameter of Type 3 Infill:	2.5mm diameter perforations, 1.7mm spacing			
Means of Securing:	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)				
Weld Details:				
Type of Weld and Pattern:				
Fastener Details:				
Type:	Part Number:			
Material	Alum <input type="checkbox"/>	St.Steel <input type="checkbox"/>	Monel <input type="checkbox"/>	Steel <input type="checkbox"/>
Surface Finish:	OTHER <input checked="" type="checkbox"/>			
Length and Diameter:				
Number Used and Location:	Indicate on figure 2			
(Attach drawings if necessary)				

Hinges (If applicable)

Type:	Concealed hinges		Number Fitted:	N/A	
Manufacturer's-	Name: Roto	Part Number:	Various		
Attached Dimensional Drawing-	Number: -	Issue:	-		
Material Type and Grade-	Leaves: Galvanised folded steel	Pin:	Solid		
Surface Finish:					
Means of Securing:	Weld <input type="checkbox"/>	Screw <input checked="" type="checkbox"/>	Rivet <input type="checkbox"/>	Other <input type="checkbox"/>	
Weld Details:					
Type of Weld and Pattern:					
Fastener Details:					
Type:	Würth raised CSK head drilling screw with AW		Part Number:	020542 25	
Material	Alum <input type="checkbox"/>	St.Steel <input type="checkbox"/>	Monel <input type="checkbox"/>	Steel <input checked="" type="checkbox"/>	OTHER <input type="checkbox"/>
Surface Finish:	Galvanised zinc				
Length and Diameter:	3.5mm x 25mm				
Number Used and Location:	See attached drawing				
(indicate on figure 1) (Attach drawings if necessary)					

Track or Build Outs (If applicable)

Type: <u> N/A </u>											
Manufacturer's-	Name: _____										
Attached Dimensional Drawing-	Part Number: _____										
Number: _____	Issue: _____										
Material Type and Grade: _____											
Surface Finish: _____											
Fastener Details:											
Type: _____	Part Number: _____										
Material	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 100px;">Alum</td> <td style="width: 30px;"> </td> </tr> </table> <table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 100px;">St.Steel</td> <td style="width: 30px;"> </td> </tr> </table> <table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 100px;">Monel</td> <td style="width: 30px;"> </td> </tr> </table> <table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 100px;">Steel</td> <td style="width: 30px;"> </td> </tr> </table> <table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 100px;">OTHER</td> <td style="width: 30px;"> </td> </tr> </table>	Alum		St.Steel		Monel		Steel		OTHER	
Alum											
St.Steel											
Monel											
Steel											
OTHER											
Surface Finish: _____											
Length and Diameter: _____											
Number Used and Location: _____											
(indicate on figure 1) _____ (Attach drawings if necessary)											

Interlock (If applicable)

Type: <u> N/A </u>											
Manufacturer's-	Name: _____										
Attached Dimensional Drawing-	Part Number: _____										
Number: _____	Issue: _____										
Material Type and Grade: _____											
Surface Finish: _____											
Fastener Details:											
Type: _____	Part Number: _____										
Material	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 100px;">Alum</td> <td style="width: 30px;"> </td> </tr> </table> <table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 100px;">St.Steel</td> <td style="width: 30px;"> </td> </tr> </table> <table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 100px;">Monel</td> <td style="width: 30px;"> </td> </tr> </table> <table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 100px;">Steel</td> <td style="width: 30px;"> </td> </tr> </table> <table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 100px;">OTHER</td> <td style="width: 30px;"> </td> </tr> </table>	Alum		St.Steel		Monel		Steel		OTHER	
Alum											
St.Steel											
Monel											
Steel											
OTHER											
Surface Finish: _____											
Length and Diameter: _____											
Number Used and Location: _____											
(indicate on figure 1) _____ (Attach drawings if necessary)											

Rollers (If applicable)

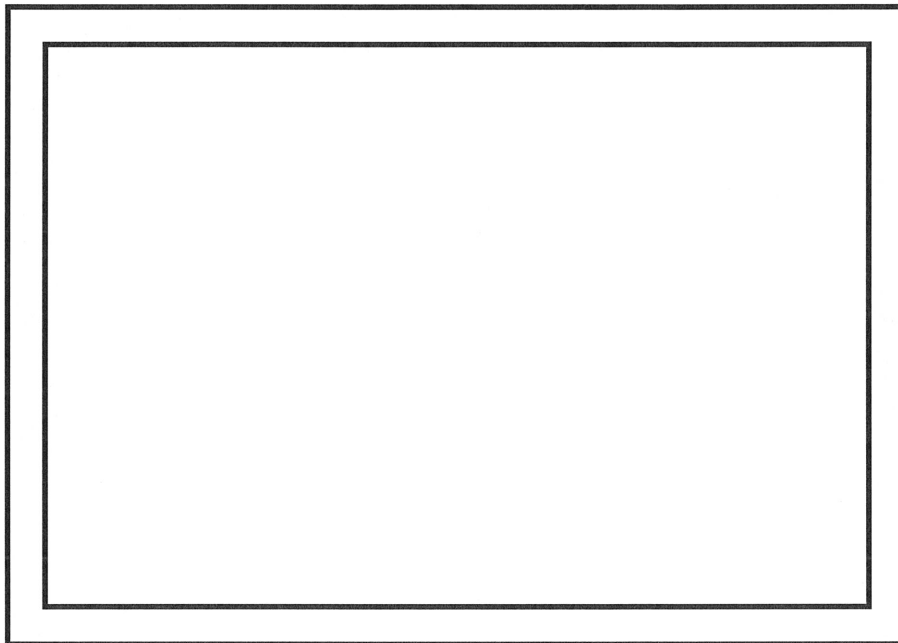
Type: <u> N/A </u>	
Manufacturer's-	Name: _____
Attached Dimensional Drawing-	Part Number: _____
Number Used and Location:	Issue: _____
(indicate on figure 1) _____ (Attach drawings if necessary)	

Manufactured By:	Prowler Proof
Sample Number:	PO1-000263

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

All Dimensions in Millimetres.

1500
See attached drawing



900

Figure 1

Manufactured By:	Prowler Proof
Sample Number:	P01-000263

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

All Dimensions in Millimetres.

Fitted all around internal perimeter of frame

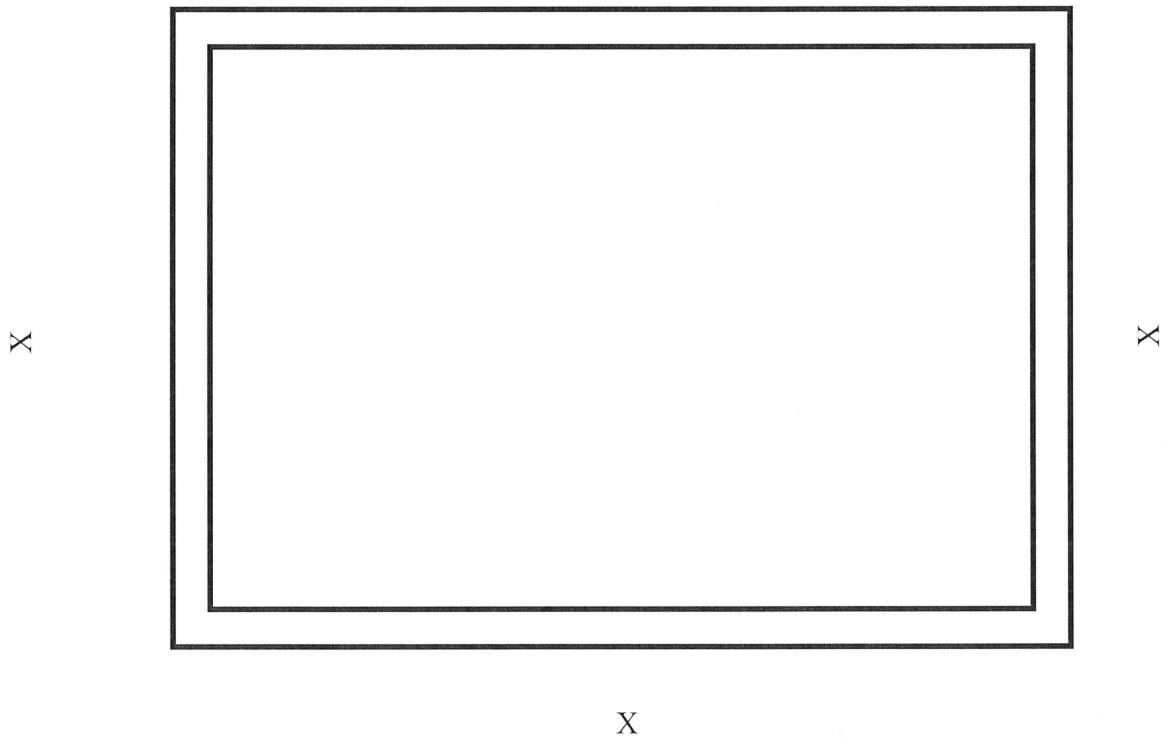
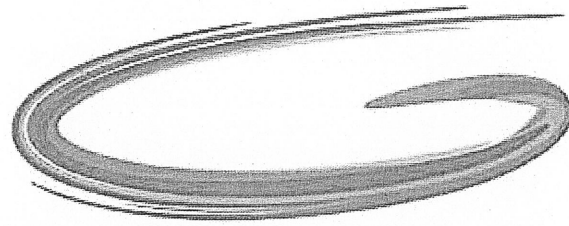


Figure 2



A Z U M A
Design

Laboratory Report

Date

14-October-2014

Customer

Prowler Proof

Test No :

AZT0304.14



WORLD RECOGNISED
ACCREDITATION

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.

AZUMA DESIGN

TESTING LABORATORY REPORT

Details of product for testing

Infill

Material type and grade :	Aluminium		
Manufacturers	Name	Prowler Proof	
	Identi / Part number	Protec Mesh	
Attached dimensional drawing No:		Issue :	
Dimensions (in mm):			
Material thickness:	1.6mm	Spacing :	1.7
		Aperture:	2.5
Surface finish / coating :	Powdercoat		

Means of securing to frame :

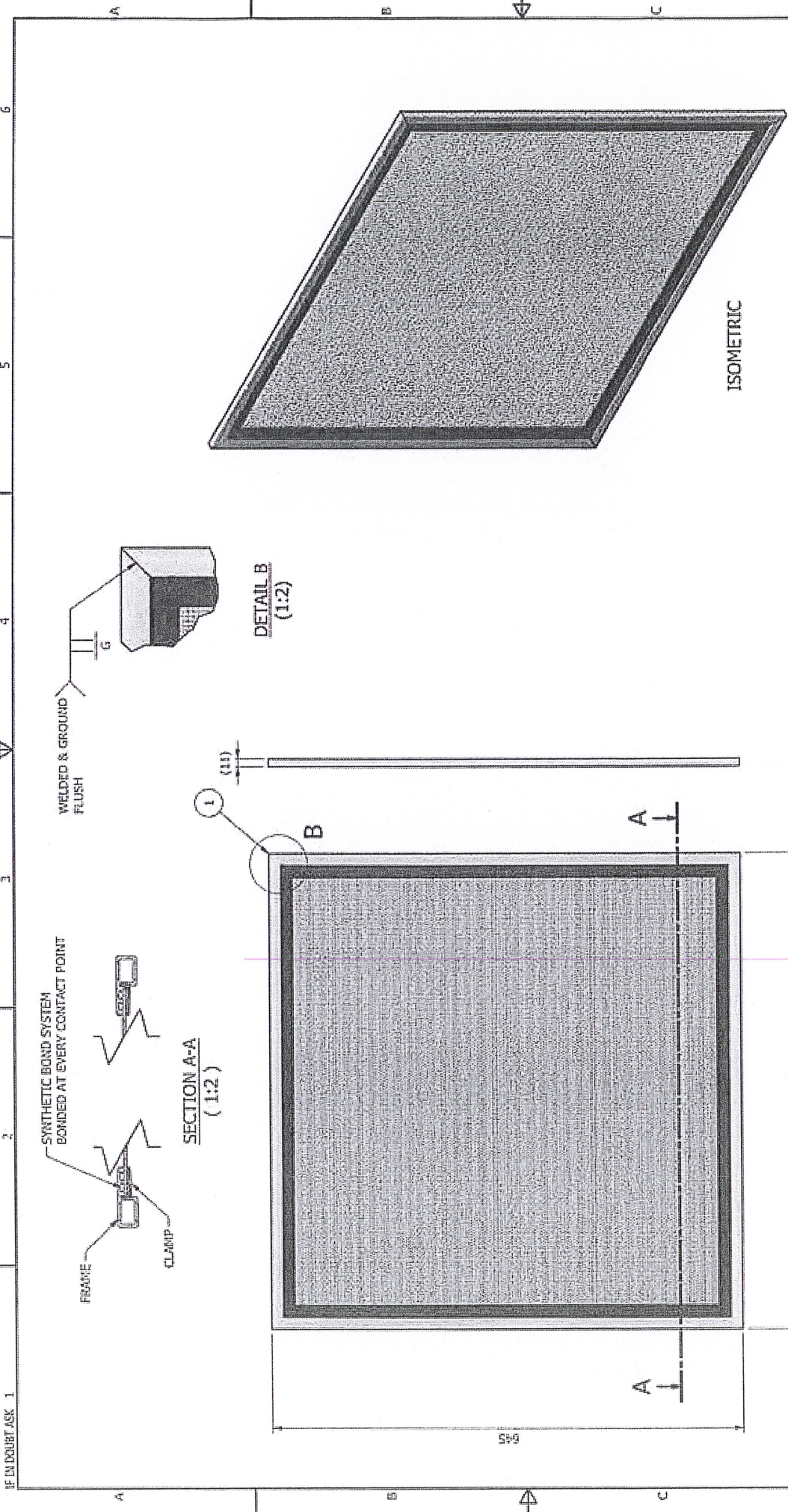
Mechanical Bolt	If means of securing is OTHER, submit full details on separate sheet attach to Final report
-----------------	---

Weld details

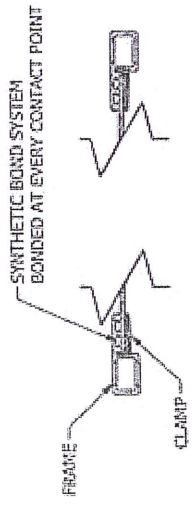
Type of weld		Weld pattern	
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Fastener details

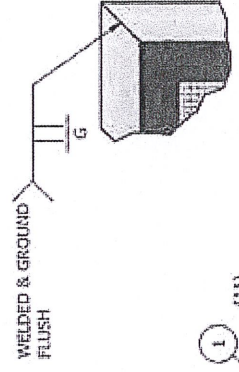
Manufacturers	Name	
	Identification / Part number	
Material		If material type is OTHER, submit full details on separate sheet and attach to final report
Surface finish		
Length & dia/Gauge		
Qty & location		
	Show details on attached sheet	



IF IN DOUBT ASK 1



SECTION A-A
(1:2)



DETAIL B
(1:2)

NATA
NATA Accredited Laboratory
Number: 15147

This laboratory is accredited by the National Association of Testing Authorities, Australia. The tests reported herein have been performed in accordance with its scope of accreditation. This document shall not be reproduced, copied or in full.

Checked by: _____

REV. No.	INITIAL RELEASE - PREVIOUS REVISIONS SUPERSEDED	DATE	APPL. BY	DATE
A	REVISION DESCRIPTION	15/10/14		

REVISION HISTORY

Prowler Proof Gershwin Pty Ltd 122 BUCHANAN RD BANYO, QLD, 4014 PH: +61 7 3363 0666 FAX: +61 7 3267 5411		DATE: 15/10/2014 CHECKED: _____ DATE: _____ DATE: _____ PART NUMBER: P10-000103 DRAWN MATERIAL: PROWLER PROOF STROOK CORE	SHEET 1 OF 1 TITLE: KNIFE SHEAR TEST-PROTEC SCALE: SEE VIEW REV: A
UNLESS OTHERWISE SPECIFIED: 1/ = 1/8" DIA. 2/ = 1/4" DIA. 3/ = 3/8" DIA. 4/ = 1/2" DIA. 5/ = 5/8" DIA. 6/ = 3/4" DIA. 7/ = 7/8" DIA. 8/ = 1" DIA. 9/ = 1 1/8" DIA. 10/ = 1 1/4" DIA. 11/ = 1 3/8" DIA. 12/ = 1 1/2" DIA. 13/ = 1 3/4" DIA. 14/ = 2" DIA. 15/ = 2 1/4" DIA. 16/ = 2 3/4" DIA. 17/ = 3" DIA. 18/ = 3 1/4" DIA. 19/ = 3 1/2" DIA. 20/ = 3 3/4" DIA. 21/ = 4" DIA. 22/ = 4 1/4" DIA. 23/ = 4 1/2" DIA. 24/ = 4 3/4" DIA. 25/ = 5" DIA. 26/ = 5 1/4" DIA. 27/ = 5 1/2" DIA. 28/ = 5 3/4" DIA. 29/ = 6" DIA. 30/ = 6 1/4" DIA. 31/ = 6 1/2" DIA. 32/ = 6 3/4" DIA. 33/ = 7" DIA. 34/ = 7 1/4" DIA. 35/ = 7 1/2" DIA. 36/ = 7 3/4" DIA. 37/ = 8" DIA. 38/ = 8 1/4" DIA. 39/ = 8 1/2" DIA. 40/ = 8 3/4" DIA. 41/ = 9" DIA. 42/ = 9 1/4" DIA. 43/ = 9 1/2" DIA. 44/ = 9 3/4" DIA. 45/ = 10" DIA. 46/ = 10 1/4" DIA. 47/ = 10 1/2" DIA. 48/ = 10 3/4" DIA. 49/ = 11" DIA. 50/ = 11 1/4" DIA. 51/ = 11 1/2" DIA. 52/ = 11 3/4" DIA. 53/ = 12" DIA. 54/ = 12 1/4" DIA. 55/ = 12 1/2" DIA. 56/ = 12 3/4" DIA. 57/ = 13" DIA. 58/ = 13 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6211 14/3/19

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

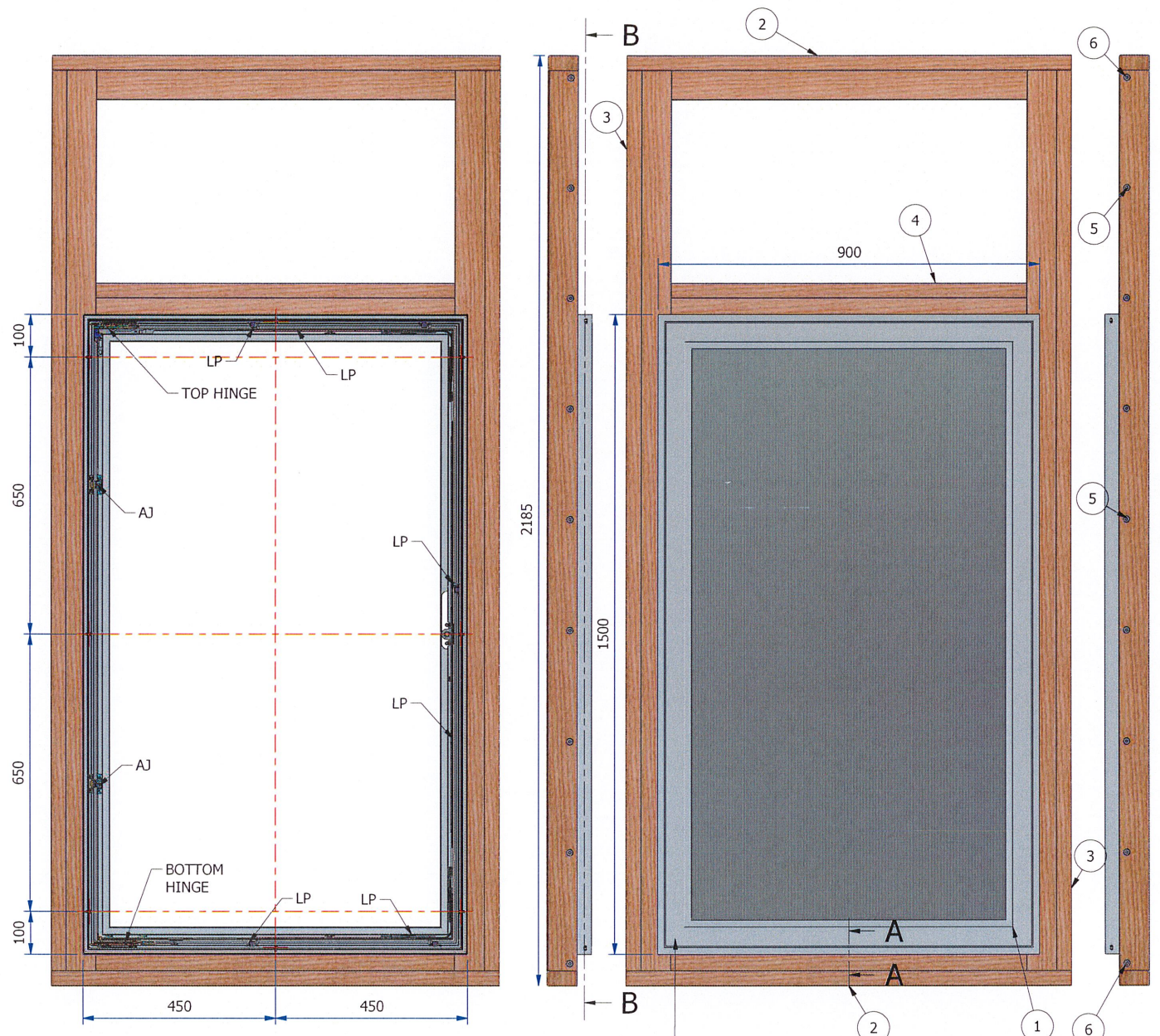
B

C

A

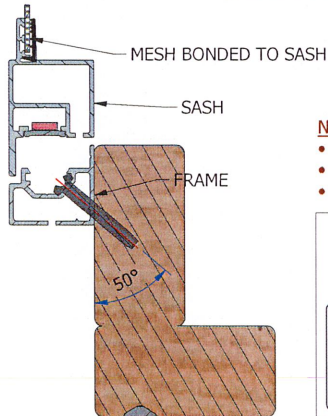
B

C



SECTION B-B

WELDED CORNERS FOR SASH AND FRAME



SECTION A-A

NOTES:

- AJ = ANTI-JEMMY
- LP = LOCKING POINT
- FIXINGS POSITIONS REPRESENTED BY RED CENTRE LINES

<p>Prowler Proof Gershwin Pty Ltd</p> <p>122 BUCHANAN RD BANYO, QLD. 4014 PH: +61 7 3363 0666 FAX: +61 7 3267 5411</p> <p>PROWLER PROOF</p>	DRAWN A.HOW	DATE 18-Jan-19	TITLE: HINGE WINDOW SYSTEM - PROTEC FACE FIX FRAME	SHEET 1 OF 1
	CHECKED	DATE	PART NUMBER: P01-000263	SCALE: SEE VIEW
APPR.	DATE	PROWLER PROOF PROJECT CODE:	DRAWING DOCUMENT FILE NAME: P01-000263.idw	REV: B
RAW MATERIAL			MODEL DOCUMENT FILE NAME: P01-000263.idw	
<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 X = ±1mm X.X = ±0.5mm X.XX = ±0.25mm</p>	<p>ALL DIMENSIONS IN MILLIMETERS ALL THREAD TO BE METRIC COARSE ALL WELDS TO AS1554 ALL BURRS AND SHARP EDGES TO BE REMOVED</p>	<p>3RD ANGLE PROJECTION</p>
DO NOT SCALE DRAWING		WEIGHT: N/A	SHEET SIZE: A3	