

ASSA ABLOY AUSTRALIA
235 Huntingdale Rd
Oakleigh, VIC 3166

TEST REPORT (6395)

Security Window Grille

FOR

(Prowler Proof 122 Buchanan Rd Banyo QLD)



NATA Accredited Laboratory
Accreditation No.: 14812

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

ENG54 / 9

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

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Report No.: **6395**

Date of Issue:

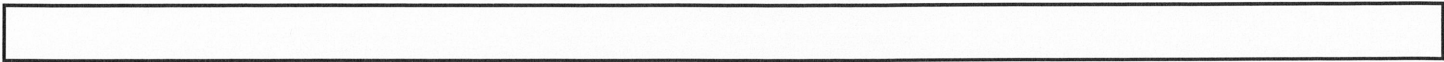
Test Report Security Window Grille		
Test Report Number:	6395	PAM Number:
Manufactured By:	Prowler Proof	Date of Submission:
Tested By:	D Gough	Date:
Certified By:	C Korvin	Date:
Witnessed By:	A How A Jahed	Date:
		18/9/2019
		18/9/2019
		18/9/2019

Details of Test Window

Type and Class:	Type 3 infill Class B
Make or Model:	Prowler Proof- Hinged Window In Swing Security Screen- Protec*
Sample Number:	PP6-4-00012
Frame Size:	1500mm x 900mm
Framing Material:	Treated Pine
Constructional Description of Test Security Window Grille:	
Aluminium extrusion frame with perforated aluminium mesh infill- mechanically bonded to the frame. Fitted with a single handle operated Roto multipoint locking system.	

Details of Test Window Infill

Type and Fabrication Method:	Perforated aluminium mesh mechanically bonded to the frame.
Manufacturer's Name / Part Number:	Protec*
<u>Type 1 Mesh Infill (if applicable)</u>	
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):	
<u>Type 3 Mesh Infill (if applicable)</u>	
Material Type and Grade:	Perforated Aluminium 5005-H34, 1.7mm thick
Mass per m² (kg):	Not stated
Knife Shear Test:	Test report RP-KS18-TP-01 by Meshtec 20/11/2018



(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): 8mm			
Test	Remarks	Pass	Fail
Impact One:	10mm deformation	Y	
Impact Two:	11mm deformation	Y	
Impact Three:	12mm deformation	Y	
Impact Four:	16mm deformation	Y	
Impact Five:	16mm deformation	Y	
150mm Diameter Probe			
Infill Type Probe test:	Less than 3mm Pass		

Jemmy Tests – AS 5039/5041-2003

Location	Remarks	Pass	Fail
Centre Locking Point:	No centre locking point		
Bottom Locking Point:	724N applied. No access created at this point	Y	
Top Locking Point:	720N applied. No access created at this point	Y	
Centre Hinge:	Preliminary prising didn't create a jemmy rig test point	Y	
Bottom Hinge	As for centre hinge	Y	
Top Hinge:	As for centre 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):	N/A						
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 applicable test clauses of AS 5039/ AS5041

Remarks:

The preliminary prising to give a foothold for the jemmy rig couldn't be achieved on the hinged side of the screen. Passed by default.

Jemmying on the locking side at 2 places didn't gain access and the frame distortion was still less than the gauge, so side pulling wasn't required.

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 Test Lab Manager.....	Date 20/09/2019.....
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Identification Details for Security Window Grille
Submitted for Type Testing in Accordance to AS 5039/5041-2003
 (Informative)

General

Model Number / Name:	Protec perforated mesh infill, bonded to an aluminium extruded frame. Locking achieved by a Roto multipoint system	This information to be clearly marked on test window.
Sample Number:	PP6-4-00012	
Manufactured By:	Prowler Proof	
Date of Submission:	18/09/2019	
Description:	Aluminium extrusion used with mechanically bonded perforated aluminium mesh infill. System opens inwards and is secured by multipoint locking controlled by an internal lever	
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:	Prowler Proof	Section Number:	P01-000267 & P01-000209
Attached Dimensional Drawing- Number:	P01-000267/ P01-000209	Issue:	1
Material Type and Grade:	6060-T5		
Surface Finish:	Powder coat		
Mass per Metre Length (kg):	0.830kg/m & 0.552kg/m		
Mounting Frame Material:	Treated pine		
(Attach drawings if necessary)			

Corner Stake

Type:	None used-Welded corners									
Manufacturer's- Name:		Section Number:								
Attached Dimensional Drawing- Number:		Issue:								
Material Type and Grade:										
Surface Finish:										
(If a corner stake is not used, describe the method of joining the frames)										
Fastener Details:										
Type:										
Part Number:										
Material	Alum	X	St.Steel		Monel		Steel		OTHER	
Surface Finish:										
Length and Diameter:										

(Attach drawings if necessary)

Mid Rail (If applicable)

Type: NA		Section Number: _____	
Manufacturer's-	Name: _____	Issue: _____	
Attached Dimensional Drawing-	Number: _____		
Material Type and Grade: _____			
Mass per Meter Length (kg): _____			
Surface Finish: _____			
Means of Securing to-	Frame:	Weld <input type="checkbox"/>	Screw <input type="checkbox"/>
	Infill:	Weld <input type="checkbox"/>	Screw <input type="checkbox"/>
		Rivet <input type="checkbox"/>	Other <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"/>	OTHER <input type="checkbox"/>	
Surface Finish: _____			
Length and Diameter: _____			
Number Used and Location: _____			
(Attach drawings if necessary)			

Locks (If applicable)

Type: (Description of mechanism including cylinder)	Roto NT multipoint euro locking and strikers. Operated by an internal handle. No cylinder.		
Manufacturer's-	Name: Giesse/Schlegel and Roto	Part Number: 141419	
Construction Material-	Body: Die cast zinc	Striker: Roto-diecast zinc	
Number of Locking Points:	6		
Handle (furniture) Identification:	141419 Flush handle-no key-black		
Means of Mounting:	Mechanical fastening (screw x 2)		
Mounting Location:	Indicate on figure 1.		

Infill

Type and Fabrication Method:	Perforated aluminium mechanically bonded to aluminium frame							
Manufacturer's-	Name: Protec*				Part Number: Protec			
Attached Dimensional Drawing-	Number: _____				Issue: _____			
Material Type and Grade:	1.7mm thick perforated aluminium 5005-H34							
Surface Finish:	Black Lo Sheen							
Diameter of Type 3 Infill:	Apertures less than 3mm							
Means of Securing:	Weld <input type="checkbox"/>		Screw <input type="checkbox"/>		Rivet <input type="checkbox"/>		Other <input checked="" 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"/>	OTHER <input type="checkbox"/>			
Surface Finish:	_____							
Length and Diameter:	_____							
Number Used and Location:	Indicate on figure 2							
(Attach drawings if necessary)								

Hinges (If applicable)

Type: Roto NT	Number Fitted: _____				
Manufacturer's-	Name: Roto			Part Number: _____	
Attached Dimensional Drawing-	Number: _____			Issue: _____	
Material Type and Grade-	Leaves: Die cast			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: 4.2 x 25mm CSK screw	Part Number: 141421				
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				
Length and Diameter:	25mm				
Number Used and Location:	See drawing attached				
(indicate on figure 1) (Attach drawings if necessary)					

Track or Build Outs (If applicable)

Type: _____

Manufacturer's- Name: _____ **Part Number:** _____

Attached Dimensional Drawing- Number: _____ **Issue:** _____

Material Type and Grade: _____

Surface Finish: _____

Fastener Details:

Type: _____ **Part Number:** _____

Material	Alum		St.Steel		Monel		Steel		OTHER	
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Surface Finish: _____

Length and Diameter: _____

Number Used and Location: _____

(indicate on figure 1) (Attach drawings if necessary)

Interlock (If applicable)

Type: N/A

Manufacturer's- Name: _____ **Part Number:** _____

Attached Dimensional Drawing- Number: _____ **Issue:** _____

Material Type and Grade: _____

Surface Finish: _____

Fastener Details:

Type: _____ **Part Number:** _____

Material	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: N/A

Manufacturer's- Name: _____ **Part Number:** _____

Attached Dimensional Drawing- Number: _____ **Issue:** _____

Number Used and Location: _____

(indicate on figure 1) (Attach drawings if necessary)

Manufactured By: Prowler Proof
Sample Number: PP6-4-00012

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

All Dimensions in Millimetres.

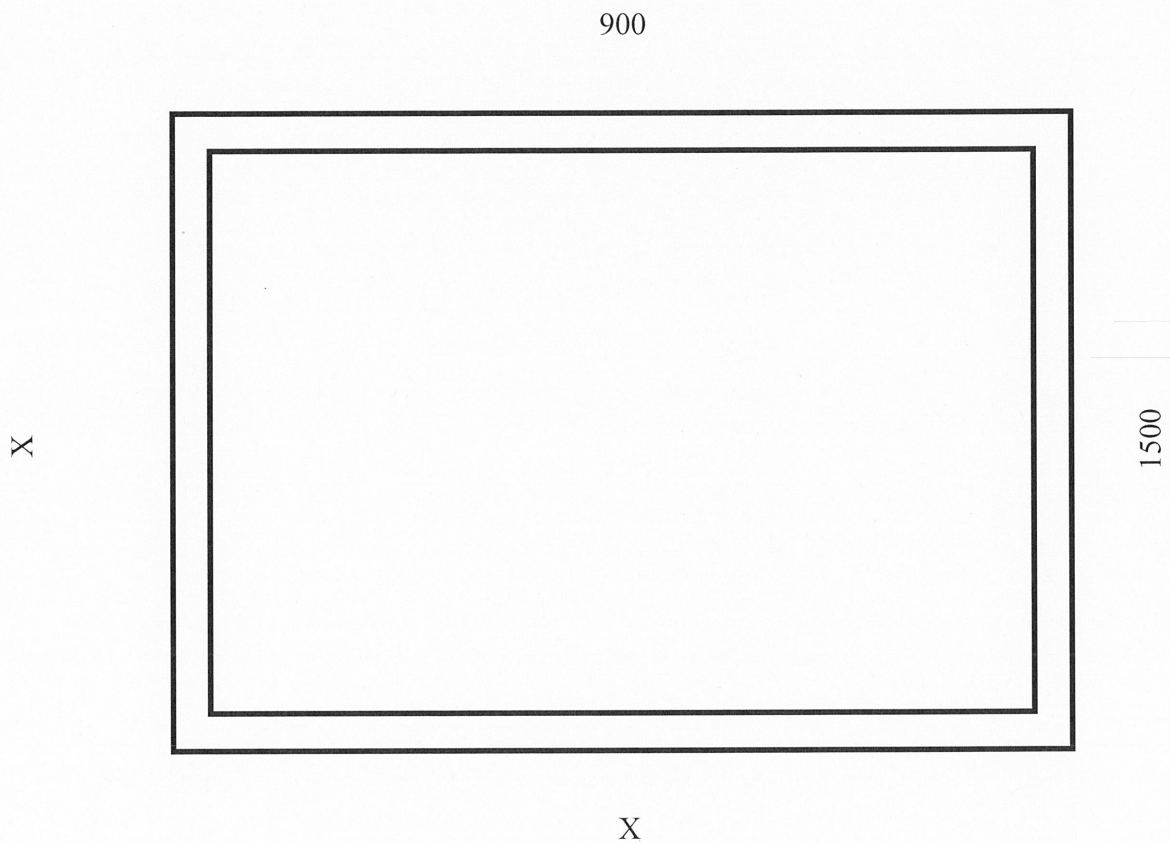


Figure 1

Manufactured By:	Prowler Proof
Sample Number:	PP6-4-00012

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

All Dimensions in Millimetres.

Mechanically bonded all around internal perimeter

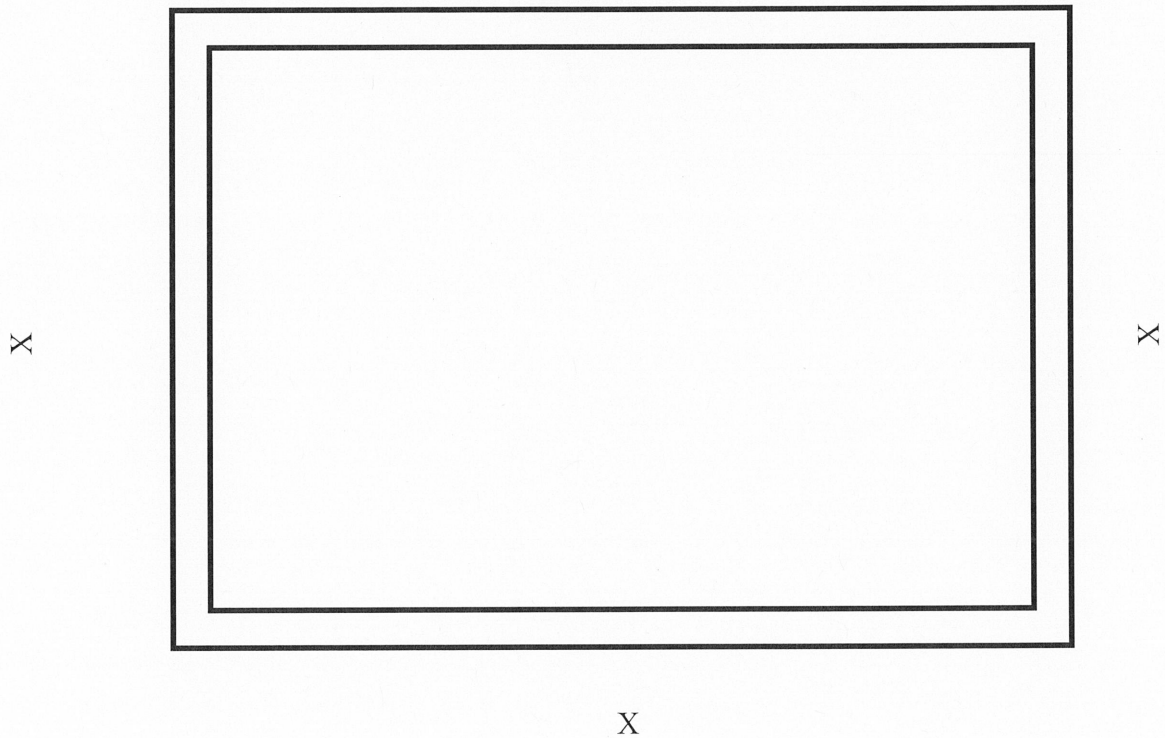


Figure 2

A

B

C

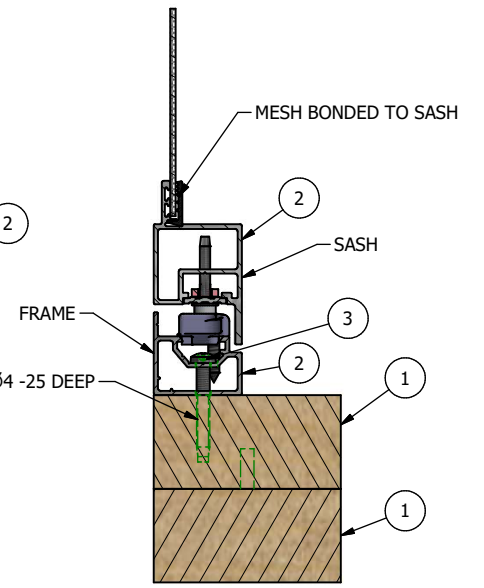
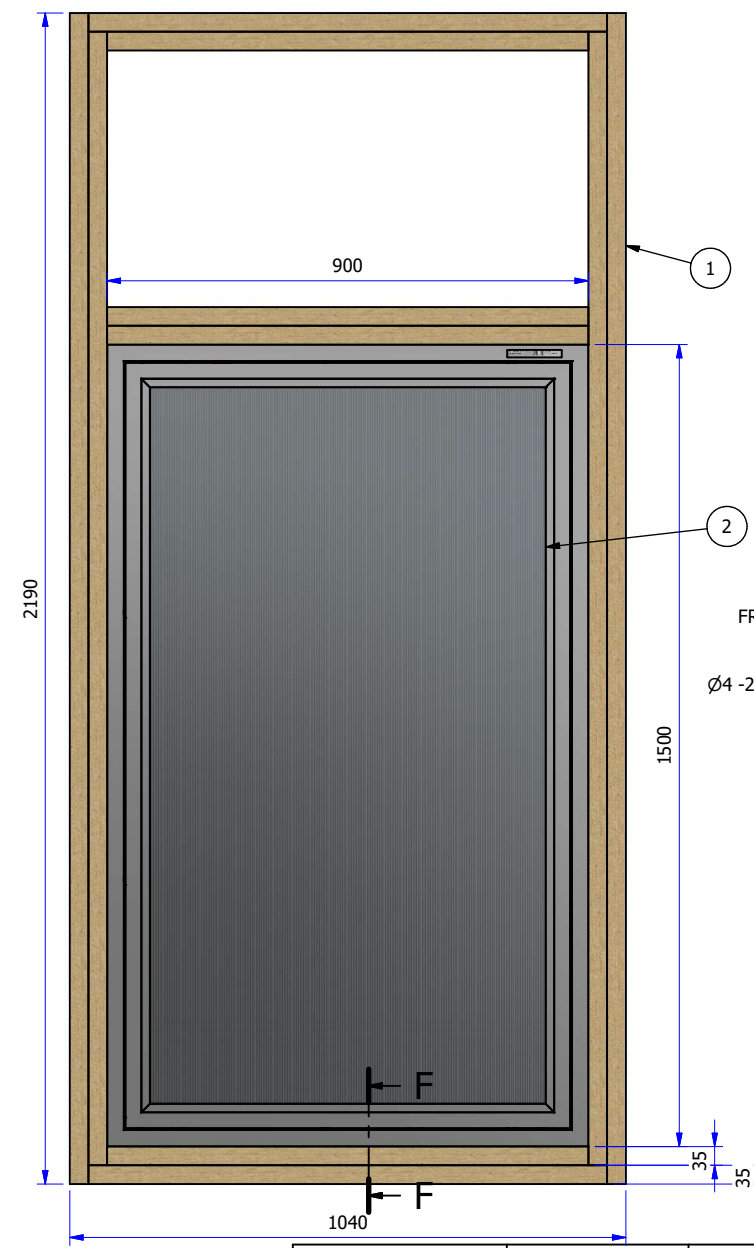
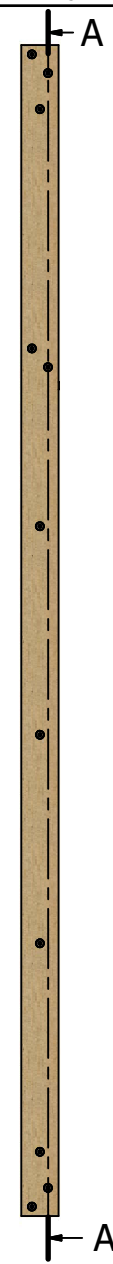
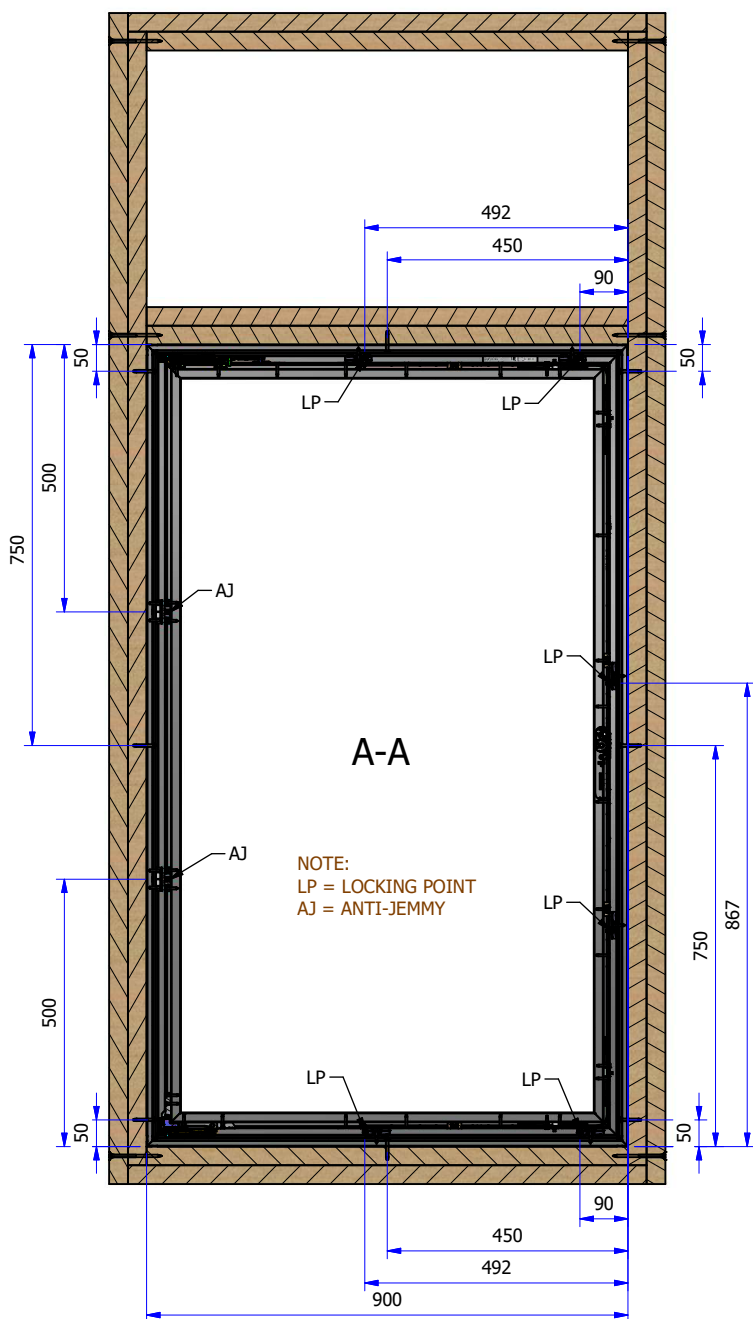
D

A

B

C

D



BILL OF MATERIALS

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	PP6-4-00016	PINE TEST FRAME - HWS (REVEAL FIXING)
2	1	P01-000296-01-01	HINGE WINDOW SYSTEM (OPEN IN)
3	8	ANSI B18.6.5M - M5x0.8 x 35 - F - I	Cross Recessed Pan Head Tapping Screw - Type F - Type I - Metric



Prowler Proof
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FAX: +61 7 3267 5411

DATE 12/08/2019	DRAWING NUMBER PP6-4-00012	NAV CODE	REV
DRAWN AliJahed	DESCRIPTION AS5039 SECURITY TEST-HINGE WINDOW IN SWING SCREEN-PROTEC MESH		
3RD ANGLE	UNLESS OTHERWISE SPECIFIED		MACHINE FINISHES = 3.2
	X = ±1mm X.X = ±0.5mm X.XX = ±0.25mm ANG = ±0.5°	ALL DIMENSIONS IN MILLIMETERS ALL THREAD TO BE METRIC COARSE ALL WELDS TO AS1554 ALL BURRS & SHARP EDGES TO BE REMOVED	PAGE 1 / 1