

ASSA ABLOY AUSTRALIA
235 Huntingdale Rd
Oakleigh, VIC 3166

TEST REPORT (6391)

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

Page 1 of 12

This report is to be reproduced in full

Report No.: **6391**

Date of Issue:

Test Report Security Window Grille			
Test Report Number:	6391	PAM Number:	
Manufactured By:	Prowler Proof	Date of Submission:	18/9/2019
Tested By:	D Gough	Date:	18/9/2019
Certified By:	C Korvin	Date:	18/9/2019
Witnessed By:	A How A Jahed	Date:	18/9/2019

Details of Test Window

Type and Class:	Type 3, Class B
Make or Model:	Prowler Proof-Hinged Window In Swing Security Screen-Forcefield*
Sample Number:	PP6-4-00024
Frame Size:	1500mm x 900mm
Framing Material:	Treated pine
Constructional Description of Test Security Window Grille:	
Extruded aluminium frame with woven stainless steel mesh infill bonded to the window. Fitted with Roto multipoint locking system with internal handle only.	

Details of Test Window Infill

Type and Fabrication Method:	Stainless steel woven mesh mechanically bonded to the frame
Manufacturer's Name / Part Number:	Forcefield* 141412
<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:	Stainless steel 316
Mass per m² (kg):	Not stated
Knife Shear Test:	Test report CER-KS19-001 21/01/2019 by Meshtec



(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	Y	
Impact Two:	13mm deformation	Y	
Impact Three:	13mm deformation	Y	
Impact Four:	30mm deformation and popped out 2 lock bolts	Y	
Impact Five:	30mm deformation no further change. Still secure	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:	N/A		
Bottom Locking Point:	628N was applied with no opening occurring	Y	
Top Locking Point:	575N applied with no opening occurring	Y	
Centre Hinge:	No access could be created for jemmying to occur	Y	
Bottom Hinge	No access could be created for jemmying to occur	Y	
Top Hinge:	No access could be created for jemmying to occur	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

Passed the applicable test clauses of AS5039 and AS5041

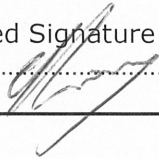
Remarks:

During the impact testing the 2 side latches were exposed. The others remained secure. These exposed side latches were the attack point using the jemmy fixture.

No access was gained and the gap created when checked by gauge, was less than what would trigger a side pull test.

Therefore considered a pass.

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 ...20/9/2019.....
---	--	---------------------------

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

General

Model Number / Name:	Security window grille with type 3 infill and multipoint locking to allow the screen to open inwards. Inner lever controlled.	This information to be clearly marked on test window.
Sample Number:	PP6-4-00024	
Manufactured By:	Prowler Proof	
Date of Submission:	18/09/2019	
Description:	Aluminium extrusions used to house the Roto multipoint locking system. The security SS woven mesh infill was mechanically bonded to the frame. An internal handle locked the 6 points.	
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: P01-000267& P01-000209
Attached Dimensional Drawing- Number:	P01-000267/P01-000209	Issue: 1
Material Type and Grade:	6060-T5	
Surface Finish:	Machine finish converted and powder coated to Qualicoat standards	
Mass per Metre Length (kg):	0.830kg/m 0.552kg/m	
Mounting Frame Material:	Treated pine	
(Attach drawings if necessary)		

Corner Stake

Type:	None- corners welded											
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:	None											
Part Number:												
Material	<table border="1"> <tr> <td>Alum</td> <td>X</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	X	St.Steel		Monel		Steel		OTHER		
Alum	X	St.Steel		Monel		Steel		OTHER				
Surface Finish:												
Length and Diameter:												

(Attach drawings if necessary)

Mid Rail (If applicable)

Type: N/A																			
Manufacturer's-	Name: _____																		
Attached Dimensional Drawing-	Section Number: _____																		
Material Type and Grade:	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><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>Infill:</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>	Frame:	Weld	<input type="checkbox"/>	Screw	<input type="checkbox"/>	Rivet	<input type="checkbox"/>	Other	<input type="checkbox"/>	Infill:	Weld	<input type="checkbox"/>	Screw	<input type="checkbox"/>	Rivet	<input type="checkbox"/>	Other	<input type="checkbox"/>
	Frame:	Weld	<input type="checkbox"/>	Screw	<input type="checkbox"/>	Rivet	<input type="checkbox"/>	Other	<input type="checkbox"/>										
Infill:	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	<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"/>										
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, Roto NT multipoint euro locking and strikers		
Manufacturer's-	Name: Geisse/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:	Screw fastening x 2		
Mounting Location:	Indicate on figure 1.		

Infill

Type and Fabrication Method:	Stainless steel woven mesh mechanically bonded to the aluminium frame									
Manufacturer's-	Name: Forcefield *			Part Number: 141412						
Attached Dimensional Drawing-	Number:			Issue:						
Material Type and Grade:	Stainless steel 316									
Surface Finish:	Black low sheen									
Diameter of Type 3 Infill:	0.80mm wire apertures <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:	4.25 x 25mm CSK screws				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									
(indicate on figure 1) (Attach drawings if necessary)										

Track or Build Outs (If applicable)

Type: <u> N/A </u>										
Manufacturer's-			Name: _____			Part Number: _____				
Attached Dimensional Drawing-			Number: _____			Issue: _____				
Material Type and Grade: _____										
Surface Finish: _____										
<u>Fastener Details:</u>										
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)							

Interlock (If applicable)

Type: <u> N/A </u>										
Manufacturer's-			Name: _____			Part Number: _____				
Attached Dimensional Drawing-			Number: _____			Issue: _____				
Material Type and Grade: _____										
Surface Finish: _____										
<u>Fastener Details:</u>										
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: <u> N/A </u>								
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:	PP6-4-00024

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

All Dimensions in Millimetres.

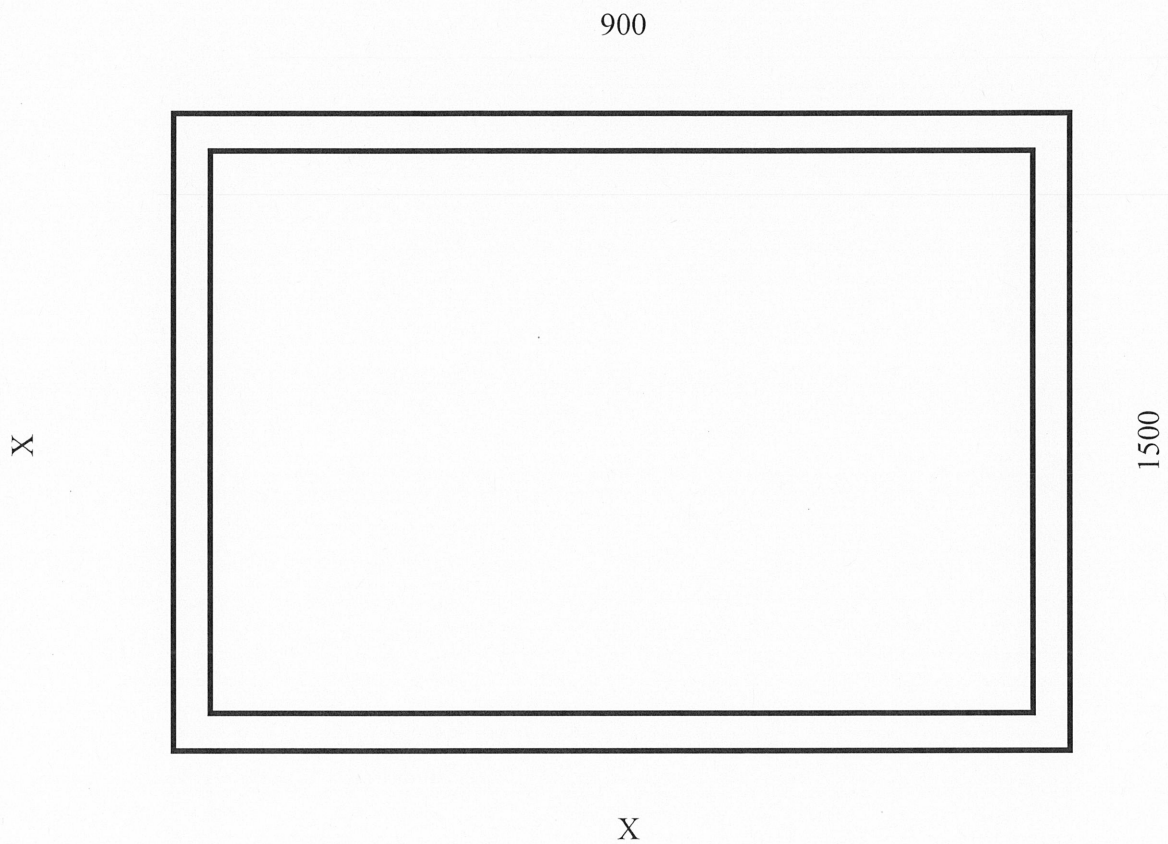


Figure 1

Manufactured By: Prowler Proof
Sample Number: PP6-4-00024

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

All Dimensions in Millimetres.

Mechanically bonded all around internal perimeter

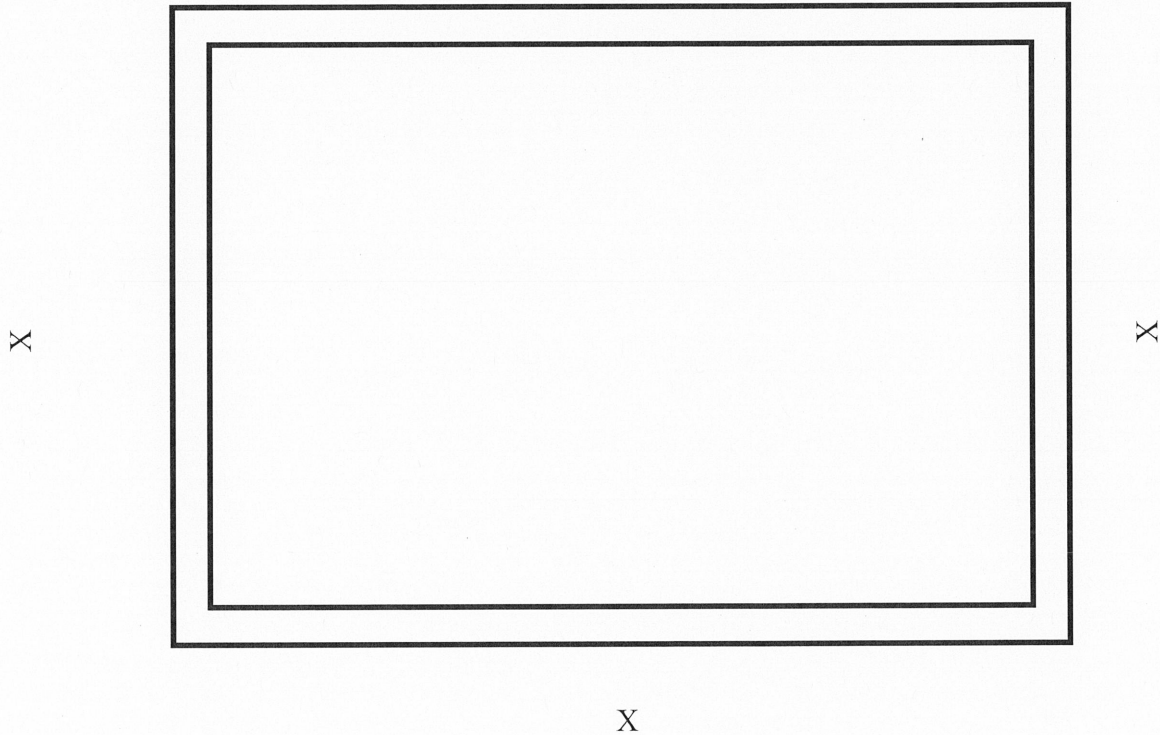


Figure 2

Test Certificate

Knife Shear Test

Certificate No.: CER-KS19-001

 Date of Received: 21 / January / 2019

 Date of Test: 21 / January / 2019

 Sample Name: Premium Fixed Window

 Sample Number: KS19-001 (0.8mm./316 Routine 2019)

 Customer name/ address: MFG: Meshtec International

 Test method: AS 5041 : 2003
 Pre-Test visual check (Tick box if ok)

- to make sure regulator seals are not broken/ PM check before test
- machine force/ pressure apparatus ready for test

 Calibrated by: NIMT

 %Humidity = 69 % (Less than 80%)

 Certificated No.: MFT-0138-18

 Temp.= 23 °C At time= 09.00 A.M.

 Expiry dates: 24 / May / 2020

(23± 5°C for force gauge)

RESULTS



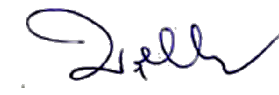
	Length of completed Penetration (mm)	New Blade used (Yes/ No)
Test No 1	<u>7.64 mm. (4 lines)</u>	<u>YES</u>
Test No 2	<u>4.01 mm. (2 lines)</u>	<u>YES</u>
Test No 3	<u>5.17 mm. (3 lines)</u>	<u>YES</u>

 Observations: Test stroke 1 wire penetration 7.64 mm. (4 lines), Stroke 2 wire penetration 4.01 mm. (2 lines)
Stroke 3 wire penetration 5.17 mm. (3 lines); Total wire penetration = 16.82 mm. (9 lines).

- AS 5041 requires continuous penetration to be less than 150 mm after the third test.
- Uncertainty of test method = ± 0.110mm

PASS / ~~FAIL~~

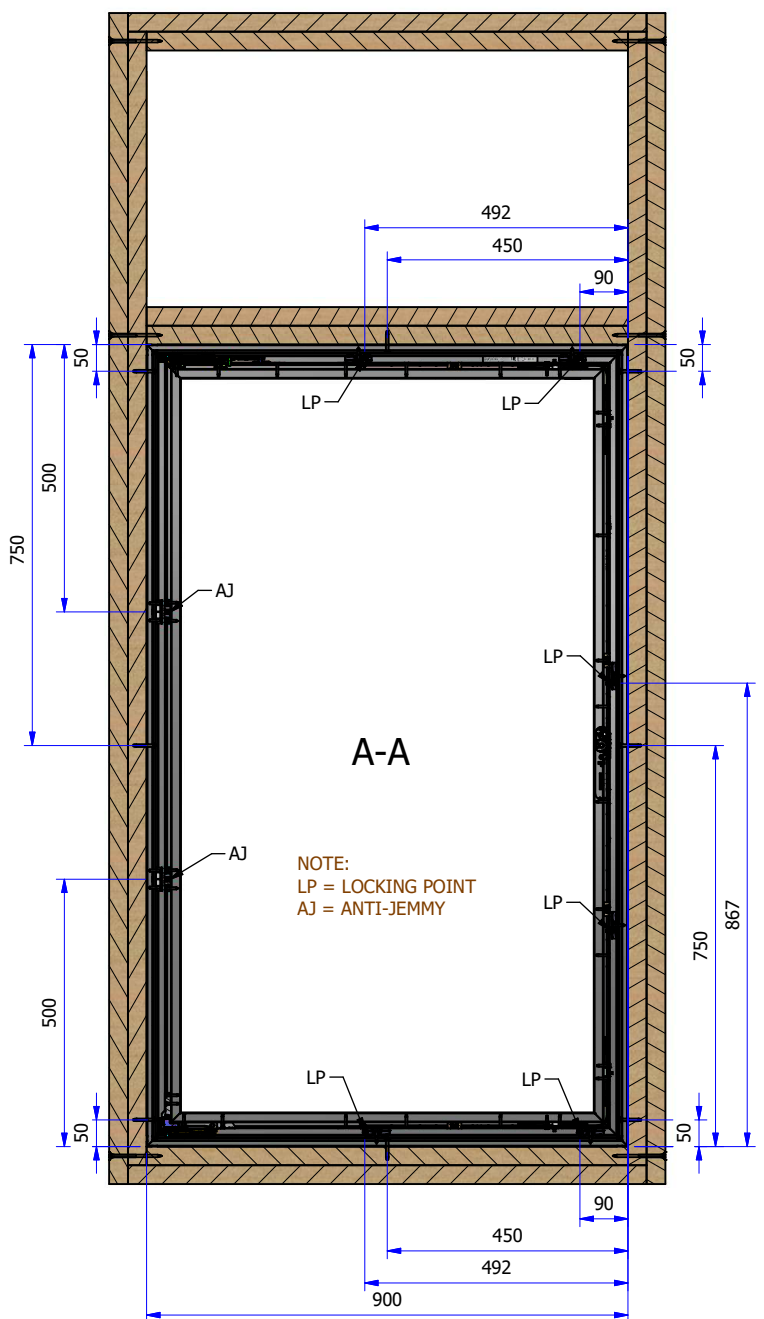
NOTE: Cross out whichever does not apply.

Tested by	Reviewed by	Approved by
 Name: <u>Jakkrit Udom</u> Date: <u>21 / January / 2019</u>	 Name: <u>Kritsada Wongwan</u> Date: <u>21 / January / 2019</u>	 Name: <u>Wichian Kaewnagri</u> Date: <u>21 / January / 2019</u>

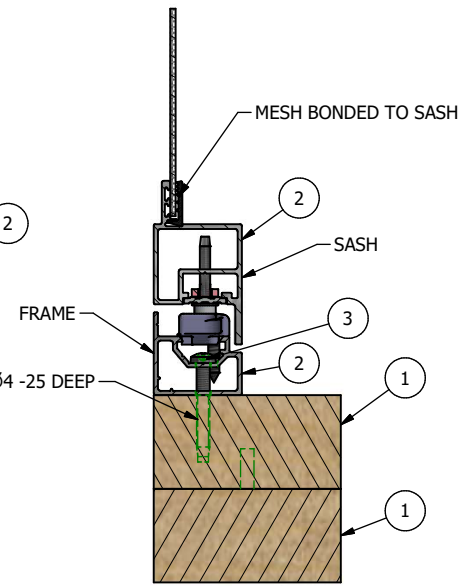
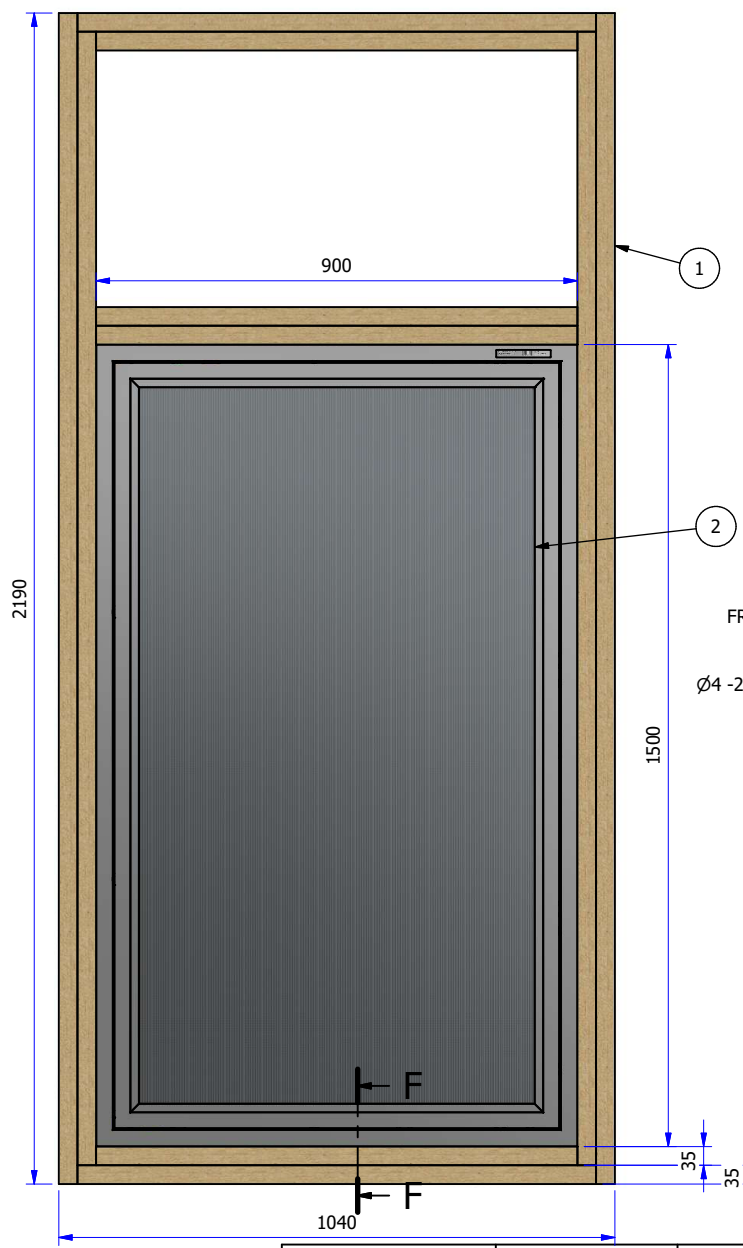
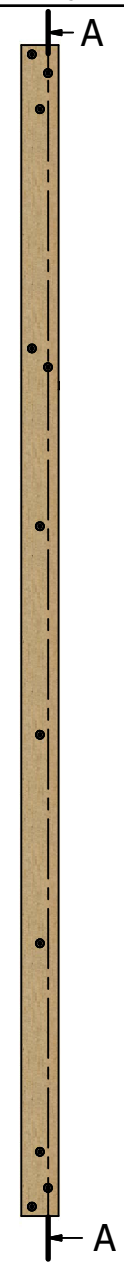
----- End of Report -----

- TISI accredited testing laboratory No. 0243
- This Certificate is issued in accordance with the conditions of accreditations granted by the Thai Industrial Standards Institute which has assessed the measurement capability of the laboratory accredited for compliance with ISO 17025.
- This certificate may not be reproduced other than in full except with the prior written approval of the Meshtec International Laboratory.
- This report is certified only on the sample tested.

A
B
C
D



NOTE:
LP = LOCKING POINT
AJ = ANTI-JEMMY



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
Gershwin Pty Ltd
122 BUCHANAN RD
BANYO, QLD. 4014
PH: +61 7 3363 0666
FAX: +61 7 3267 5411

DATE 12/08/2019	DRAWING NUMBER PP6-4-00024	NAV CODE	REV
DRAWN AliJahed	DESCRIPTION AS5039 SECURITY TEST-HINGE WINDOW IN SWING SCREEN-FORCEFIELD MESH		
3RD ANGLE	UNLESS OTHERWISE SPECIFIED	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 MACHINE FINISHES = 3.2
			PAGE 1 / 1