A.C.N. 086 451 907

ASSA ABLOY AUSTRALIA
235 Huntingdale Rd
Oakleigh, VIC 3166

TEST REPORT (6395)

Security Window Grille

FOR

(Prowler Proof
122 Buchanan Rd
Banyo QLD)

NATA
WORLD RECOGNISED ACCREDITATION

NATA Accredited Laboratory
Accreditation No.: 14812

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

Date of Issue:

Test Report Security Window Grille			
Test Report Number:	6395	**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 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*

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 5005-H34, 1.7mm thick
Mass per m^2 (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.....

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:**	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:	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

Manufacturer's- **Name:** **Section Number:**

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

Material Type and Grade:

Mass per Meter Length (kg):

Surface Finish:

Means of Securing to-								
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								
	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) 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		Screw		Rivet		Other X

(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	St.Steel	Monel	Steel	OTHER

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	Screw	Rivet	Other
		X		

Weld Details:

Type of Weld and Pattern:

Fastener Details:

Type: 4.2 x 25mm CSK screw **Part Number:** 141421

Material	Alum	St.Steel	Monel	Steel	OTHER
				X	

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 ☐

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.

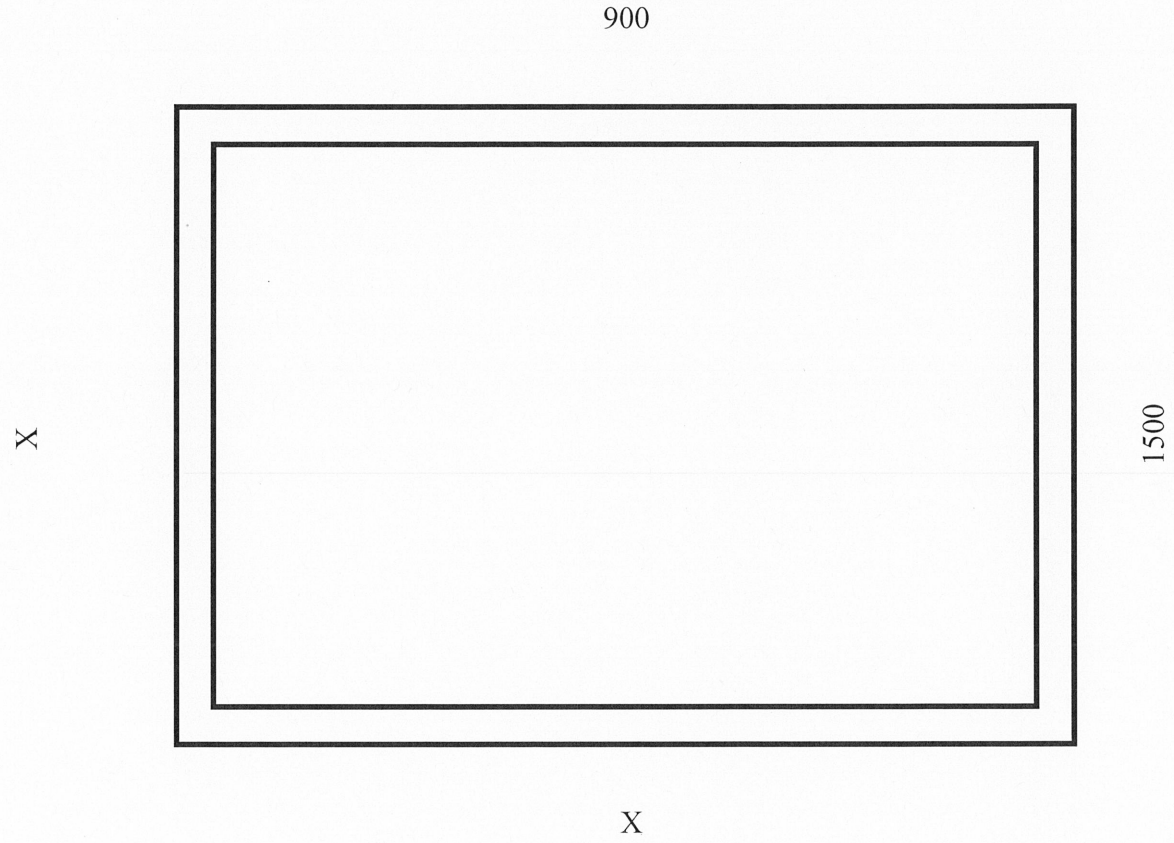


Figure 1

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

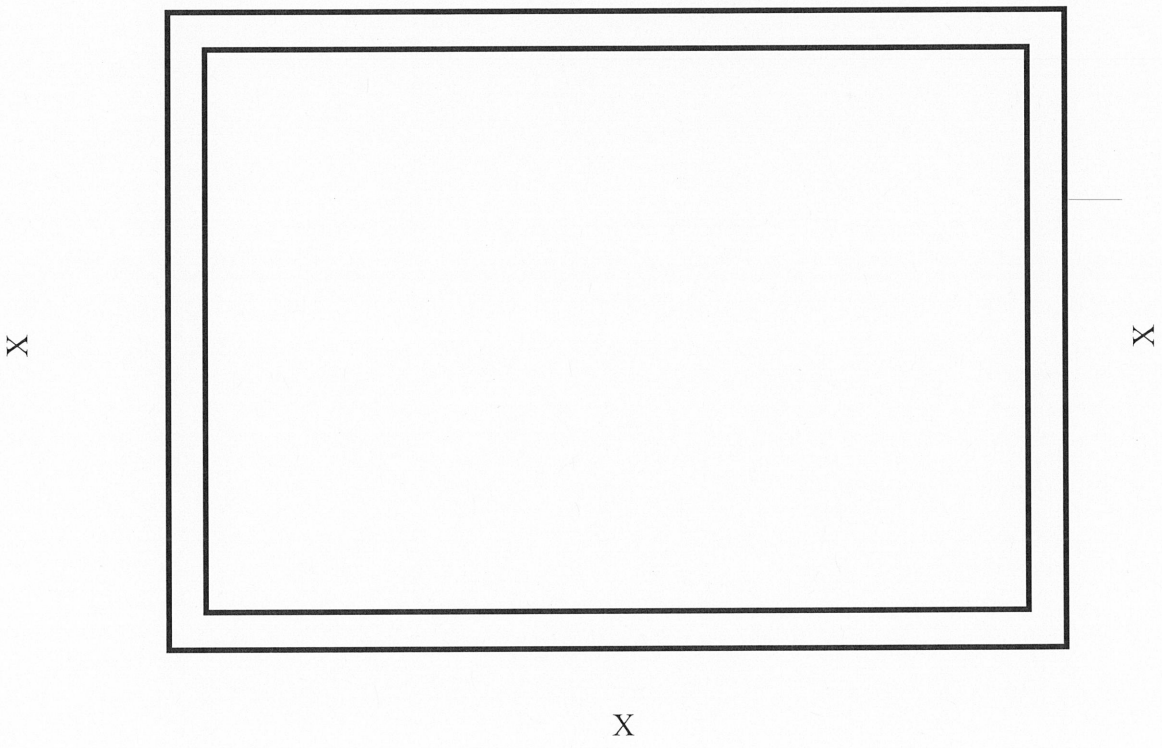


Figure 2

Meshtec International Co., Ltd.
168 Moo 3 Chiang Mai – Lampang Road
T. Saraphi A. Saraphi, Chiang Mai 50140

Test Report

Knife Shear Test

Report No.: RP-KS18-TP-01

Date of Received: 20 / November / 2018 Date of Test: 20 / November / 2018

Sample Name: Perforated sheet

Sample Number: KS18-TP-01 (Aluminum perforate thickness 1.6mm.)

Customer name/ address: N/A

Test method: In-house method base on 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

Certificated No.: MFT-0138-18

Expiry dates: 24 /May /2020

%Humidity = 66 % (Less than 80%)

Temp.= 24 °C At time= 09.30 A.M.

(23± 5°C for force gauge)

RESULTS

	Length of completed Penetration (mm)	New Blade used (Yes/ No)
Test No 1	7.56 mm. (2 lines)	YES
Test No 2	2.46 mm. (1 line)	YES
Test No 3	2.50 mm. (1 line)	YES

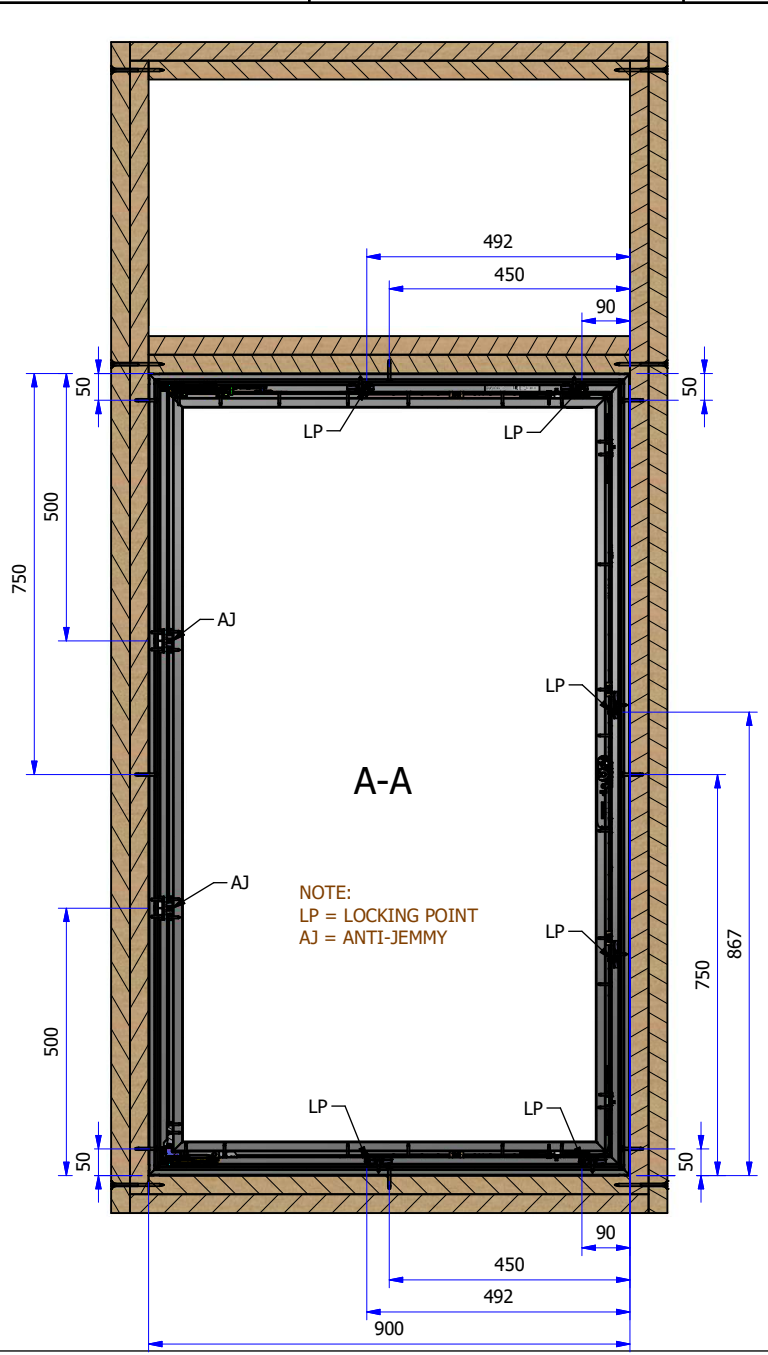
Observations: Test stroke 1 wire penetration 7.56 mm. (2 lines), Stroke 2 wire penetration 2.46 mm. (1 line) Stroke 3 wire penetration 2.50 mm. (1 line); Total wire penetration = 12.52 mm. (4 lines).

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

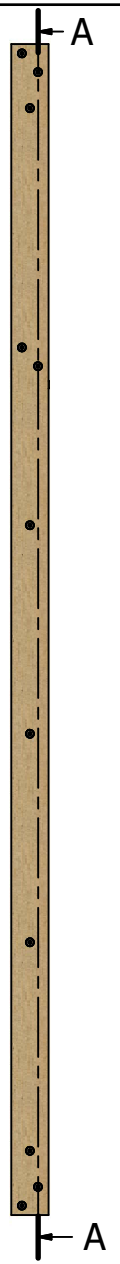
PASS /~~FAIL~~ NOTE: Cross out whichever does not apply.

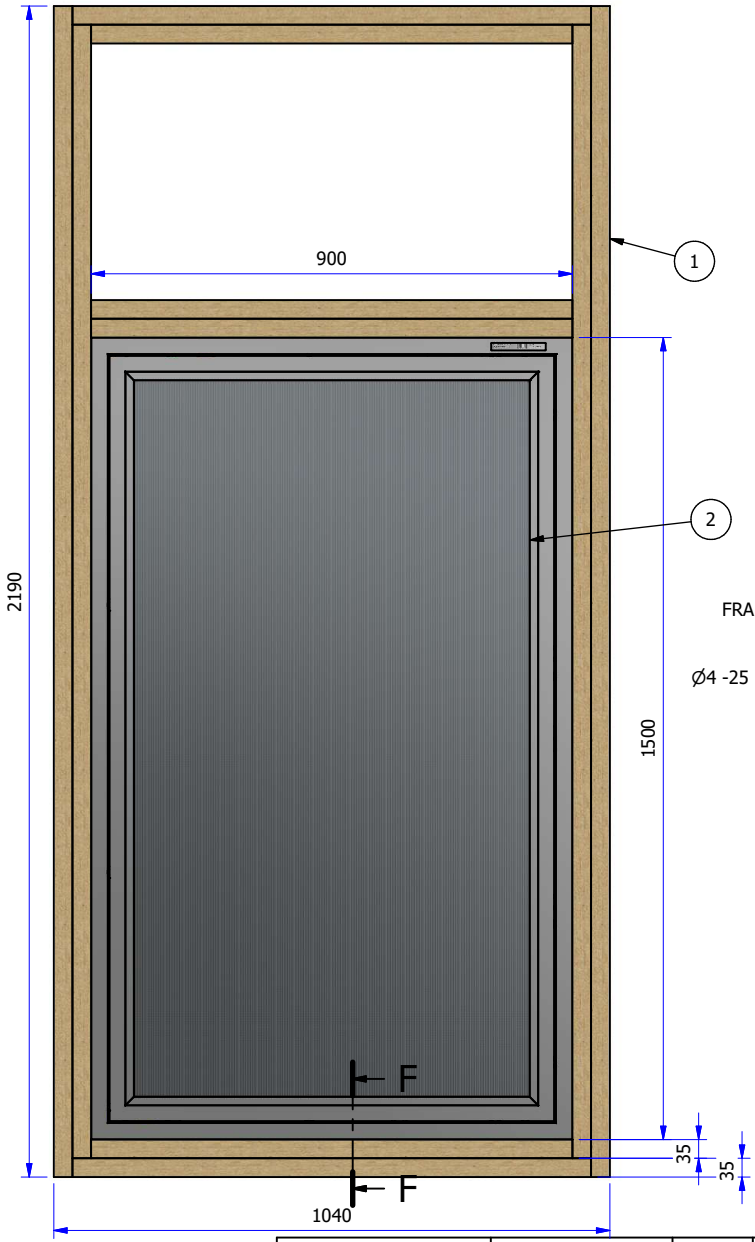
Tested by	Reviewed by	Approved by
Name: Jakkrit Udom	Name: Kritsada Wongwan	Name: Wichian Kaewnasri
Date: 20 / November / 2018	Date: 20 / November / 2018	Date: 20 / November / 2018

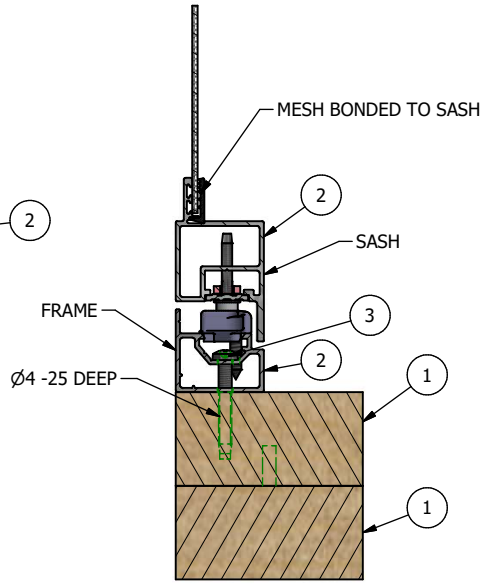
---------- *End of Report* ----------



A-A







F-F

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 ®

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

DATE	DRAWING NUMBER	NAV CODE	REV
12/08/2019	PP6-4-00012		

DRAWN: AliJahed
3RD ANGLE
DESCRIPTION: AS5039 SECURITY TEST-HINGE WINDOW IN SWING SCREEN-PROTEC MESH

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

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