

ASSA ABLOY AUSTRALIA
235 Huntingdale Rd
Oakleigh, VIC 3166

TEST REPORT (6201)

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:

**Test Report
Security Window Grille**

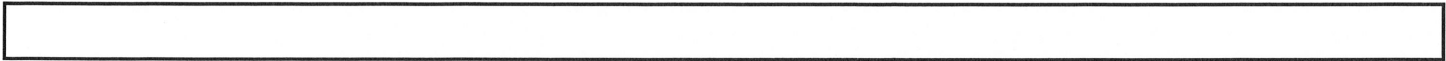
Test Report Number:	6201	PAM Number:	
Manufactured By:	Prowler Proof	Date of Submission:	
Tested By:	D Gough	Date:	6/2/2019
Certified By:	C Korvin	Date:	6/2/2019
Witnessed By:	Adam How	Date:	6/2/2019

Details of Test Window

Type and Class:	Class B Movable
Make or Model:	Hinge security window with Forcefield® mesh infill
Sample Number:	P000262
Frame Size:	1640 x 1045mm
Framing Material:	Pine
Constructional Description of Test Security Window Grille:	
An aluminium hinge window security screen containing perforated aluminium mesh infill –Face fixed	

Details of Test Window Infill

Type and Fabrication Method:	Stainless steel wire mechanically bonded to aluminium 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:	316 stainless steel
Mass per m² (kg):	Not stated
Knife Shear Test:	Meshtec International CER-KS19-001 TISI Lab 0243



(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):7mm			
Test	Remarks	Pass	Fail
Impact One:	18mm deformation	Yes	
Impact Two:	21mm deformation	Yes	
Impact Three:	21mm deformation	Yes	
Impact Four:	23mm deformation	Yes	
Impact Five:	23mm deformation	Yes	
150mm Diameter Probe	NA		
Infill Type Probe test:	Yes. Gaps/holes less than 3mm. Pass		

Jemmy Tests – AS 5039/5041-2003

Location	Remarks	Pass	Fail
Centre Locking Point:	Preliminary access points to use the Jemmy fixture couldn't be created, 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.

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

General

Model Number / Name:	Hinged window security screen with Forcefield security mesh	This information to be clearly marked on test window.
Sample Number:	P000262	
Manufactured By:	Prowler Proof	
Date of Submission:	6/2/2019	
Description:	An aluminium hinge window security screen containing woven stainless steel mesh infill	
<p>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)</p>		

Framing Section

Type:	Aluminium extrusions		
Manufacturer's- Name:	Capral	Section Number:	P01-000208&P01-000209
Attached Dimensional Drawing- Number:	P01-000208 / P01-000208	Issue:	1/1
Material Type and Grade:	6060-T5		
Surface Finish:	Powder coat		
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:	NA
Attached Dimensional Drawing- Number:	NA	Issue:	NA
Material Type and Grade:	NA		
Surface Finish:	NA		
(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:	NA		

(Attach drawings if necessary)

Mid Rail (If applicable)

Type: NA	
Manufacturer's- Attached Dimensional Drawing-	Name: _____ Number: _____
Material Type and Grade:	Section Number: _____
Mass per Meter Length (kg):	Issue: _____
Surface Finish:	
Means of Securing to-	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	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, with Roto NT multipoint Euro locking and strikers. (Multi locking Espagnolette)	
Manufacturer's-	Name: Roto	Part Number: _____
Construction Material-	Body: Various metals	Striker: Diecast zinc
Number of Locking Points:	Various based on length of section	
Handle (furniture) Identification:	Flush handle	
Means of Mounting:	Screw fixing	
Mounting Location:	See DRWG P01-000 attached	

Infill

Type and Fabrication Method:	Stainless steel wire mechanically bonded to aluminium frame			
Manufacturer's-	Name: Forcefield	Part Number:	141412	
Attached Dimensional Drawing-	Number: NA	Issue:		
Material Type and Grade:	316 stainless steel wire			
Surface Finish:	Black low sheen			
Diameter of Type 3 Infill:	0.8mm diameter wire			
Means of Securing:	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:	Indicate on figure 2			
(Attach drawings if necessary)				

Hinges (If applicable)

Type:	Concealed		Number Fitted:	NA	
Manufacturer's-	Name: Roto	Part Number:			
Attached Dimensional Drawing-	Number:	Issue:			
Material Type and Grade-	Leaves: Galvanised folded steel sheet	Pin:	Solid		
Surface Finish:					
Means of Securing:	Weld		Screw	x	
			Rivet		
			Other		
Weld Details:					
Type of Weld and Pattern:					
Fastener Details:					
Type:	Würth raised CSK head drilling screw with AW Drive PIAS		Part Number:	020542 25	
Material	Alum		St.Steel		
			Monel		
			Steel	x	
			OTHER		
Surface Finish:	Galvanised zinc				
Length and Diameter:	3.5 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>NA</u>						
Manufacturer's- Attached Dimensional Drawing-	Name: _____ Number: _____					
Material Type and Grade:	Part Number: _____ Issue: _____					
Surface Finish: _____						
Fastener Details:						
Type: _____	Part Number: _____					
Material	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:25%;">Alum</td> <td style="width:25%;">St.Steel</td> <td style="width:25%;">Monel</td> <td style="width:25%;">Steel</td> <td style="width:20%;">OTHER</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>NA</u>						
Manufacturer's- Attached Dimensional Drawing-	Name: _____ Number: _____					
Material Type and Grade:	Part Number: _____ Issue: _____					
Surface Finish: _____						
Fastener Details:						
Type: _____	Part Number: _____					
Material	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:25%;">Alum</td> <td style="width:25%;">St.Steel</td> <td style="width:25%;">Monel</td> <td style="width:25%;">Steel</td> <td style="width:20%;">OTHER</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>NA</u>	
Manufacturer's- Attached Dimensional Drawing-	Name: _____ Number: _____
Number Used and Location:	Part Number: _____ Issue: _____
Surface Finish: _____	
Fastener Details:	
Type: _____	
Part Number: _____	
Material	
Surface Finish: _____	
Length and Diameter: _____	
Number Used and Location: _____	
(indicate on figure 1) _____ (Attach drawings if necessary)	

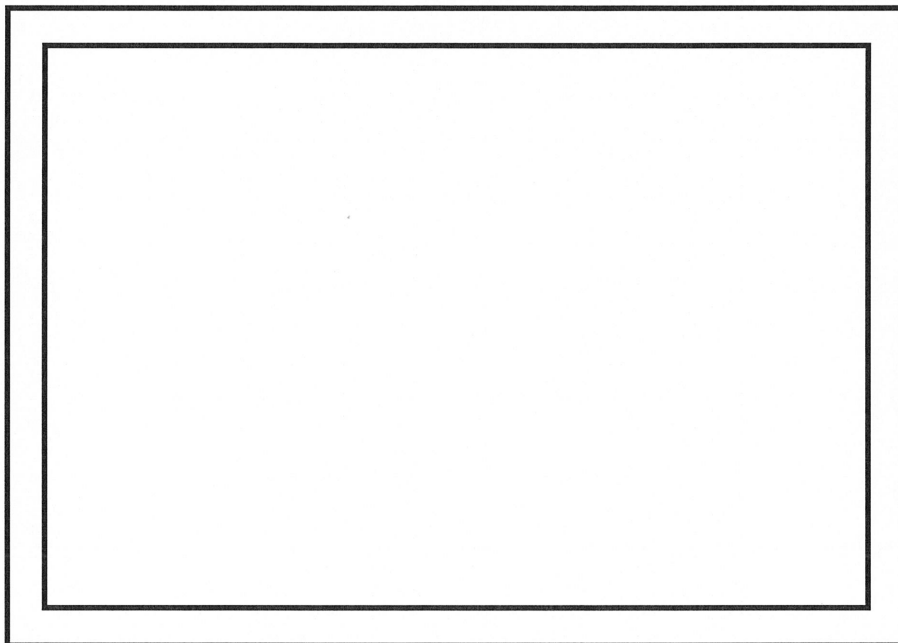
Manufactured By:	Prowler Proof
Sample Number:	P000262

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

All Dimensions in Millimetres.

1500
See attached drawing

X



900

X

Figure 1

Manufactured By:	Prowler Proof
Sample Number:	P000262

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

All Dimensions in Millimetres.

Fitted all around internal perimeter of frame

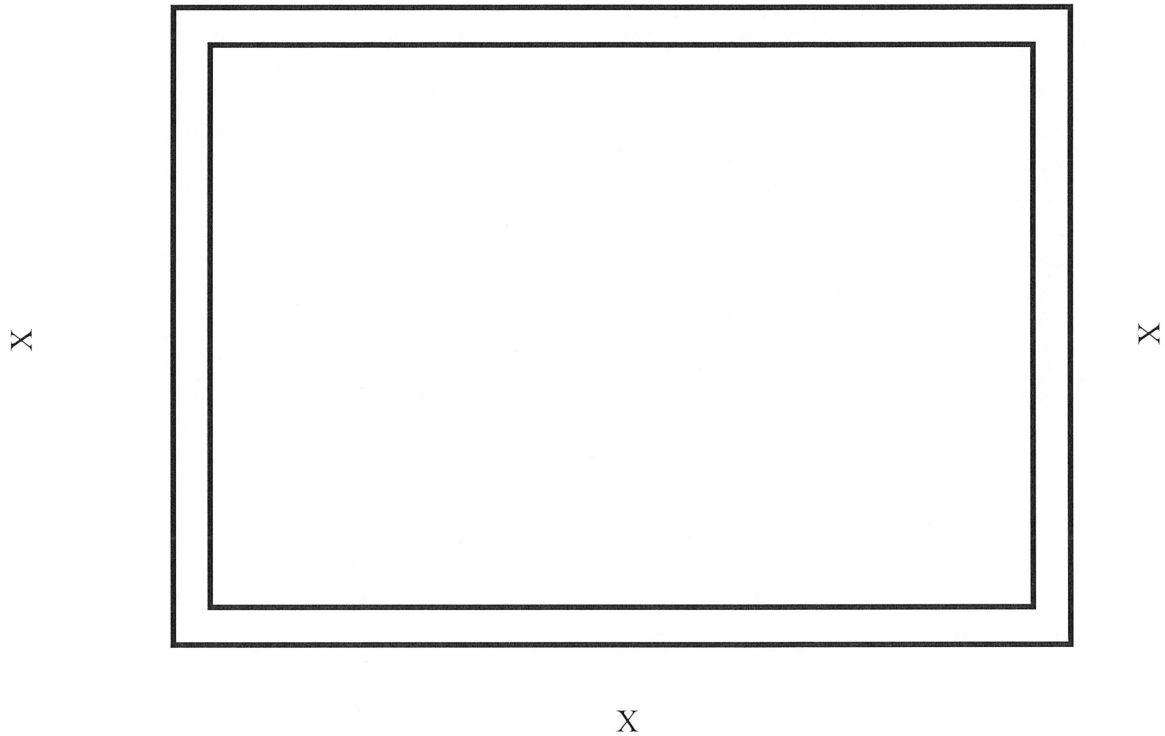
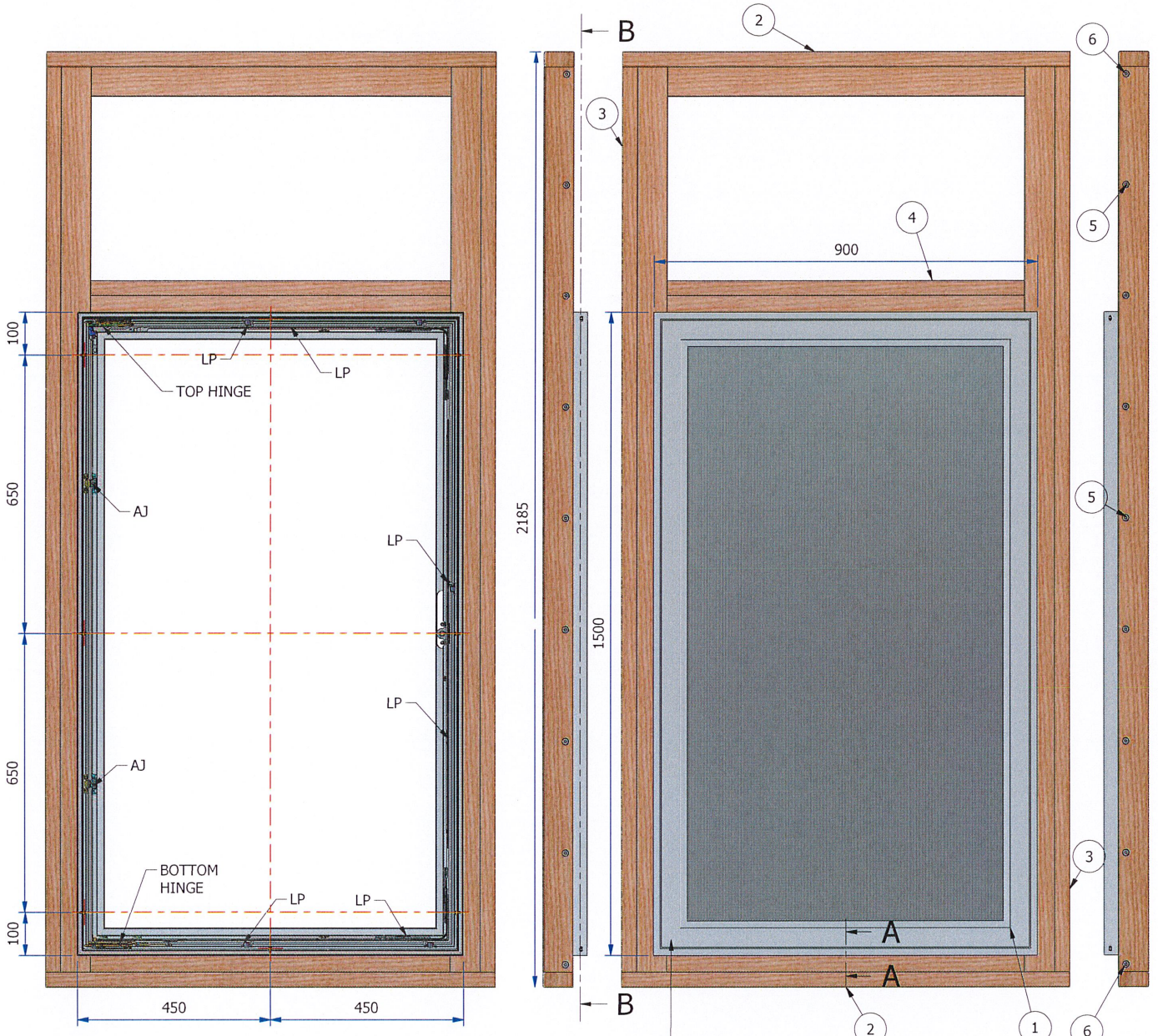


Figure 2

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

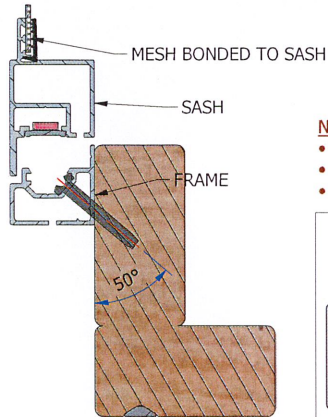
A

A



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>	<p>DRAWN A.HOW</p>	<p>DATE 18-Jan-19</p>	<p>TITLE: HINGE WINDOW SYSTEM - FACE FIX FIXED SCREEN</p>	<p>SHEET 1 OF 1</p>
	<p>CHECKED</p>	<p>DATE</p>	<p>PART NUMBER: P01-000262</p>	<p>SCALE: SEE VIEW</p>
<p>APPR.</p>	<p>DATE</p>	<p>RAW MATERIAL</p>	<p>DRAWING DOCUMENT FILE NAME: P01-000262.idw MODEL DOCUMENT FILE NAME: P01-000262.iam</p>	<p>REV: B</p>
<p>UNLESS OTHERWISE SPECIFIED</p> <p>X = ±1mm X.X = ±0.5mm X.XX = ±0.25mm</p>		<p>MACHINE FINISHES = 3.2 = ± 1°</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>
<p>DO NOT SCALE DRAWING</p>			<p>WEIGHT: N/A</p>	<p>SHEET SIZE: A3</p>



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



NSC-TISI-TIS 17025
TESTING 0243

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 = ± 0.110 mm

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 Kaewnasri</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.

IF IN DOUBT ASK 1

2

3

4

5

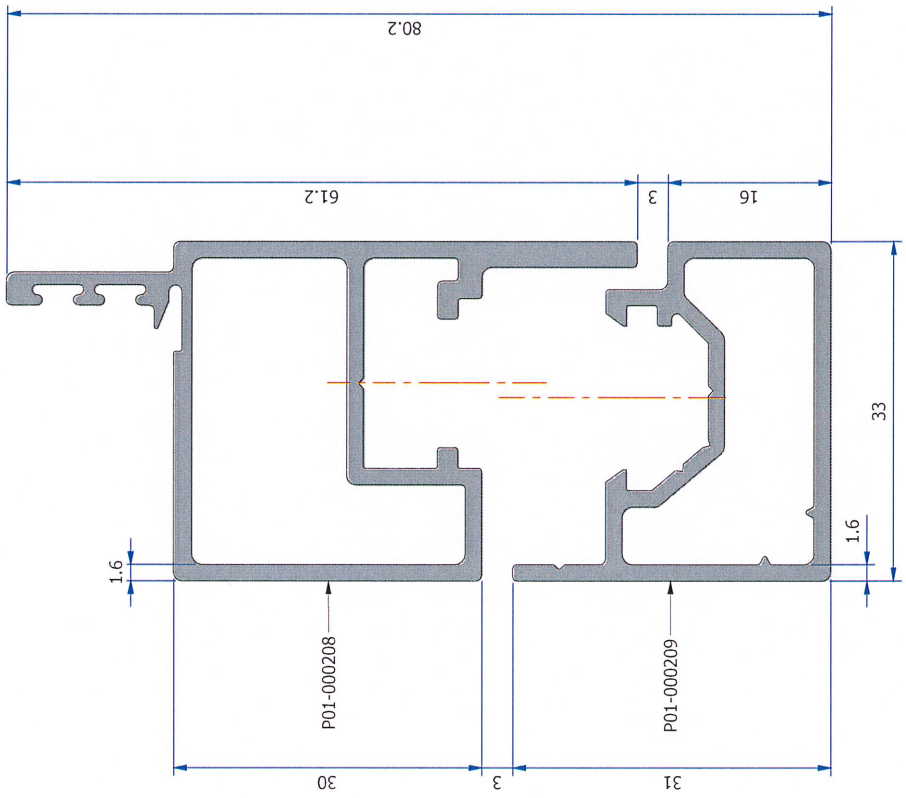
6

A

B

C

D



< OUTSIDE FACE

6201
6/2/19

Prowler Proof
Gershwin Pty Ltd



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

Drawn
Drawn
Checked
Appr.
Raw Material

Date
05-Feb-18
Date
Date
Date

Title
HINGED WINDOW SYSTEM
(CONTROL SKETCH)

Sheet
1 OF 1

Part Number
P01-000207
Prowler Proof Project Code
Generic

Drawing Document File Name
P01-000207.dwg
Plot File Name
P01-000207.plt

Scale
SEE VIEW
Rev
C

UNLESS OTHERWISE SPECIFIED
= 1.0mm
X.X = ± 0.1mm
X.XX = ± 0.25mm

ALL DIMENSIONS IN MILLIMETERS
ALL THRESHOLD TO BE METRIC COARSE
ALL DIMENSIONS TO BE METRIC
ALL BURRS AND SHARP EDGES TO BE REMOVED

3rd Angle Projection
N/A
Weight
N/A
Sheet Size
A3

REV. No.	REVISION DESCRIPTION	DATE	APP. BY	DATE
A	INITIAL RELEASE - PREVIOUS REVISIONS SUPERSEDED			
REVISION HISTORY				