Report No.: 6181

ASSA ABLOY AUSTRALIA 235 Huntingdale Rd Oakleigh, VIC 3166

TEST REPORT (6181)

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:	6181	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:Movable Class BMake or Model:Hinge window security screen with Forcefield® security meshSample Number:P01-000261Frame Size:1640 x 1045mmFraming Material:PineConstructional Description of Test Security Window Grille:An Aluminium hinge window security screen containing woven stainless steel mesh infill.

Details of Test Window Infill

Type and Fabrication Meth	od: Stainless stee	el wire mechanically bonded to aluminium frame
Manufacturer's Name / Pa Number:	Forcefield®	141412
Type 1 Mesh Infill (if appl	<u>icable)</u>	
1) Number of Intersected 150mm Circle:		
Breaking Force in Shea (min 3kN):		
Multiplication of Above Po 30kN):	ints 1 and 2 (min	
		v v
Type 3 Mesh Infill (if appl	<u>icable)</u>	
Material Type and Grade:	316 Stainless steel w	oven mesh
Mass per m² (kg):	Not supplied	
Knife Shear Test:	Yes. Meshtec Internat	tional. Cert CER-KS10-001 21/1/2019. TISI Lab 0243

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(Above details supplied by customer not by testing authority)

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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:	25mm deformation -no access	Yes		
Impact Two:	25mm deformation – no access	Yes		
Impact Three:	25mm deformation – no access	Yes		
Impact Four:	25mm deformation – no access	Yes		
Impact Five:	25mm deformation – no access	Yes		
150mm Diameter Probe			4	
Infill Type Probe test:	Passes <3mm gaps			

Jemmy Tests - AS 5039/5041-2003

Location	Remarks	Pass	Fail
Centre Locking Point:	No preliminary access points could be created to utilise the Jemmy fixture. So passes by default.	Yes	- (x.)
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 Maximu m	B 150mm Maximu m	C 100x100 mm Maximu m	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.

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Force Probe Test (type 2 infill material only)

150mm Sph	nerical Probe Test (1.5	κN):	Pass		Fail	
Remarks:			,			
**************************************			CHT THE STORE STORE OF THE STORE AND SHEET AND THE STORE AND STORE			
Overall Test	Passes the requirement	ts of A	AS5039 and	AS5041		
Remarks:	No access was created	by im	pacting.			
	No preliminary points f bent back, the screw d gaining any leverage to	river o	could rotate	to the limit allow	ed in the Standard,	e corner was without
					·	
This signatu	ure indicates that testing te	has be	een conducte sults reflect t	ed in accordance he test findings.	to the current AS 5	039-2003, and
Authorised S	ignature		Print Na	me/Title C Kor Lab Manager	vin 	Date /2/2019

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

<u>General</u>							
Model Number / Name:	Hinge W	Hinge Window security screen with Forcefield® security mesh					
Sample Number:	P01-000	P01-000261					
Manufactured By:	Prowler	Prowler Proof					
Date of Submission:	6/2/201	9			— window. —		
Description:	An alum infill	inium hing	ge window security screen o	containing woven sta	ainless steel mesh		
	DRWG P	01-00026	1				
(To show additional		tails of doc	ETE ATTACHED SHEETS (For construction such as intended in the sheets as necessary)		ing, etc., attach		
Framing Section							
Type: Extruded	l aluminium	1					
Manufacturer's-		Name:	Capral		P01-000208& P01-000209		
Attached Dimension Drawing-	al	Number :	P01-000208 / P01- 000208	Issue:	1/1		
Material Type and G	rade:	6060-T5					
Surface Finish:		Powder coated					
Mass per Metre Leng (kg):	gth _	0.798kg/m					
Mounting Frame Ma	terial:	Pinus radiata					
		(Atta	ach drawings if necessary)				
Corner Stake							
Type: None- W	elded						
Manufacturer's-		Name:	Prowler Proof	Section Number:	NA		
Attached Dimension Drawing-	al	Number:	NA	Issue:	NA		
Material Type and G	rade:						
Surface Finish:							
(If a	corner stak	ke is not us	sed, describe the method o	f joining the frames)		
Fastener Details:							
Туре:	Welded						
Part Number:							
Material	Alum	x St	t.Steel Monel	Steel	OTHER		
Surface Finish:	Machine f	inish conve	erted and powder coated to	Qualicoat standard	S		
Length and Diameter:	NA		-				
	Anti-agraphic fraction in the second	(Atta	ach drawings if necessary)				

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Mid Rail (If applicable) Type: NA Section Manufacturer's-Name: Number: **Attached Dimensional** Number: Issue: Drawing-**Material Type and Grade:** Mass per Meter Length (kg): **Surface Finish:** Weld Rivet Other Screw Frame: Means of Securing to-Other Weld Rivet Infill: Screw (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: **OTHER** Material Alum St.Steel Monel Steel Surface Finish: Length and Diameter: **Number Used and** Location: (Attach drawings if necessary) **Locks** (If applicable) Internal handle only, no cylinder, with Roto NT multipoint Euro locking Type: and strikers (Description of mechanism including cylinder) Giesse/Schlegel and Part Number: 141419 Manufacturer's-Name: Roto Roto- diecast **Construction Material-**Striker: **Body:** Diecast zinc zinc **Number of Locking Points:** Handle (furniture) 141419 Flush handle no key-Black Identification: Means of Mounting: Mechanical fastening (screw x 2) **Mounting Location:** Centred on left or right vertical depending on handing.

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Infill Type and Fabrication Stainless steel wire mechanically bonded to aluminium frame Method: Part Number: 141412 Manufacturer's-Name: Forcefield® **Attached Dimensional** Number: NA Issue: NA Drawing-316 Stainless steel Material Type and Grade: Surface Finish: Black low sheen Diameter of Type 3 Infill: 0.8mm diameter wire Other Weld Screw Rivet Χ Means of Securing: (If means of securing is OTHER, submit full details on a separate sheet) **Weld Details:** Type of Weld and Pattern: **Fastener Details: Part** Type: Number: **OTHER** St.Steel Monel Steel Alum Material Surface Finish: Length and Diameter: **Number Used and** Indicate on figure 2 Location: (Attach drawings if necessary) **<u>Hinges</u>** (If applicable) Type: Roto NT Number Fitted: NA Manufacturer's-Name: Roto Part Number: **Attached Dimensional** Issue: Number: **Drawing-**Galvanised folded steel Pin: Solid Material Type and Grade-Leaves: sheet Surface Finish: Rivet Other Means of Securing: Weld Screw Χ Weld Details: Type of Weld and Pattern: **Fastener Details:** Wurth raised countersunk head Drilling **Part** 020542 25 screw with AW Drive PIAS® Number: OTHER St.Steel Monel Steel Material Alum Χ **Surface Finish:** Galvanised zinc Length and 3.5 x 25mm Diameter: Number Used and See attached drawing Location: (Attach drawings if necessary) (indicate on figure 1) ENG54 / 9 Report No.: 6181 Page 8 of 11

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Track or Build Outs	(If applica	ble)			
Type: NA					
Manufacturer's-		Name:		Part Number:	
Attached Dimension Drawing-	nal	Number:		Issue:	
Material Type and G	irade:				
Surface Finish:					
Fastener Details:					
Туре:			Part Number:		
Material	Alum	St.Steel	Monel	Steel	OTHER
Surface Finish:					
Length and Diameter: Number Used and Location:					
(indicate on figure 1)	acknowledge or secretary and an experience of the control of the c	((Attach drawings if ne	ecessary)	CONTRACTOR AND A SERVICE PROPERTY OF THE SERVICE STREET, THE SERVI
<u>Interlock</u> (If applicab	ole)				
Type: NA					
Manufacturer's-		Name:	N 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Part Number:	
Attached Dimension Drawing-	nal	Number: Iss		Issue:	
Material Type and G	irade:				
Surface Finish:					
Fastener Details:					
Туре:			Part Number:		,
Material	Alum	St.Steel	Monel	Steel	OTHER
Surface Finish:					
Length and					
Diameter: Number Used and					
Location:			(Attach drawings if no	20002511	
(indicate on figure 1)			(Attach drawings if ne	ecessary)	
Dollors (If applicable)	`				
Rollers (If applicable) Type: NA)				
Type: NA Nanufacturer's-		Namoi		Part Number:	
Manufacturer's- Attached Dimensior	nal	Name:		-	
Drawing-		Number:		Issue:	
Number Used and Location:					
(indicate on figure 1)			(Attach drawings if n	ecessary)	
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Manufactured By:	Prowler Proof
Sample Number:	P01-000261
	Location of Fixing Points, Locking Points, Hinges and Mid-Rail.
	All Dimensions in Millimetres.
	1500 Refer to DRWG P01-000261
×	006
	X
	Figure 1

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Manufactured By:	Prowler Proof
Sample Number:	P01-000261
	Means of Securing Infill to Framing, Location of Welds / Fasteners
	ricults of occurring 111111 to 114111111g, 104411111 to 11411111 to 11411111 to 114111111 to 1141111111111
	All Dimensions in Millimetres.
	Fitted to internal part of frame extrusion all around perimeter
\times	
	X
	Figure 2

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





Test Certificate

Knife Shear Test		Cert	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/ addres	s: MFG: Meshtec International			
Test method:	AS 5041 : 2003			
	<u>heck</u> (Tick box if ok) regulator seals are not broken/ PM che	eck before test		
	e/ 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) Test No 1 7.64 mm. (4 lines)		New Blade used (Yes/ No) YES		
Test No 2 4.01 mm. (2 lines)		YES		
Test No 3	5.17 mm. (3 lines)		YES	
	ke 1 wire penetration 7.64 mm. (4 lines 5.17 mm. (3 lines); Total wire penetra			
	s continuous penetration to be less t	nan 150 mm atter	the third test.	
 Uncertainty of te 	st method = ± 0.110 mm			
PASS)/ FAIL	NOTE: Cross out whichever does no	t apply.		
Tested by	Reviewed by		Approved by	
Name: Jakkrit Ud Date: 21 / January /	D : 01 / Y		Name: Wichian Kaewnasri Date: 21/January/2019	

• TISI accredited testing laboratory No. <u>0243</u>

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