Report No.: 6178

ASSA ABLOY AUSTRALIA 235 Huntingdale Rd Oakleigh, VIC 3166

TEST REPORT 6178

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: 20/02/2019

	Test Report Security Window Grille		
Test Report Number:	6178	PAM Number:	
Manufactured By:	Prowler Proof Gershwin	Date of Submission:	
Tested By:	D Gough	Date:	6/02/2019
Certified By:	C Korvin	Date:	6/02/2019
Witnessed By:	Adam How	Date:	6/02/2019

Details of Test Window

Type and Class:Movable Class BMake or Model:Hinge Window Security Screen with Forcefield security meshSample Number:P01-000255Frame Size:1640 x 1045mmFraming Material:PineConstructional Description of Test Security Window Grille:An Aluminium hingedwindow security screen containing woven stainless steel mesh infill

Details of Test Window Infill

Type and Fabrication Met	hod:	316 Stainless steel wire mechanically bonded to aluminium frame				
Manufacturer's Name / Pa Number:	art F	Forcefield 141412				
Type 1 Mesh Infill (if app	<u>licable)</u>					
 Number of Intersected Dum Circle: Breaking Force in Shear 						
(min 3kN):	,					
Multiplication of Above Po 30kN):	oints 1 ar	nd 2 (min				
Type 3 Mesh Infill (if app	<u>licable)</u>					
Material Type and Grade:	316 Stair	stainless Steel mesh				
Mass per m² (kg):	Not giver	า				
Knife Shear Test:	Meshtec	International CER-KS19-001 TISI Lab 0243				
ENG54 / 9		D 0 144	Report No.: 6178			
		Page 2 of 11				

Page 2 of 11
This report is to be reproduced in full

(Above details supplied by customer not by testing authority)

ENG54 / 9 Report No.: **6178**

Test Report Security Window Grille

<u>Dynamic Impact Test - AS 5039/5041-2003</u>

Measurement Before Impa			
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			
Infill Type Probe test:	Yes passes <3mm requirement		

Jemmy Tests - AS 5039/5041-2003

Location	Remarks	Pass	Fail
Centre Locking Point:	No preliminary access points could be created to apply the jemmy test fixture. Passes by default	Yes	
Bottom Locking Point:	As above	Y	
Top Locking Point:	As above	Y	
Centre Hinge:	As above	Y	
Bottom Hinge	As above	Υ	
Top Hinge:	As above	Υ	

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.

ENG54 / 9		Report No.: 6178
	Page 4 of 11	
	This report is to be reproduced in full	

Force Probe Test (type 2 infill material only)

150mm Spł	herical Probe Test (1.5k	(N): Pass		Fail	
Remarks:					
Marie					
Overall Test	Passes the requirements	s of AS5039 a	nd AS5041		
Remarks:	No access gained by eitl	her the impact	t testing or the a	attempted jemmy testing].
This signatu	ure indicates that testing h	las been condu	ucted in accorda	ince to the current AS 50	39-2003, and
				193.	
Authorised S	ignature Pr La	rint Name/Title ab	e C.Korvin	Date	2010
M					2019

ENG54 / 9 Report No.: **6178**

Report No.: 6178

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

General

ENG54 / 9

Model Number / Name:	Hinged Window Se	linged Window Security Screen with Forcefield Security Mesh					
Sample Number:	P01-000255			information to be clearly			
Manufactured By:	Prowler Proof			marked on test			
Date of Submission:	6/2/2019			window.			
Description:	An Aluminium hing mesh infill	ged window security screen o	containing woven s	tainless steel			
(To show additional s	specific details of doo	ETE ATTACHED SHEETS (Figor construction such as interipher sheets as necessary)		ng, etc., attach			
Framing Section							
Type: Extruded	Aluminium						
Manufacturer's-	Name:	Capral	Section Number:	P01-000208& P01-000209			
Attached Dimensiona Drawing-	al Number :	P01-000208/P01- 000208	Issue:				
Material Type and Gr	ade: 6060 T5						
Surface Finish:	Powder co	Powder coated					
Mass per Metre Leng (kg):	0.798kg/r	0.798kg/m					
Mounting Frame Mat	terial: Pinus radi	Pinus radiata					
	(Atta	ach drawings if necessary)	A COLUMN A STATE OF THE STATE O				
Corner Stake							
Type: None use	d-corner welded						
Manufacturer's-	Name:		Section Number:				
Attached Dimensiona Drawing-	Number:		Issue:				
Material Type and Gr	ade:						
Surface Finish:							
	corner stake is not u	sed, describe the method of	joining the frames)			
Fastener Details:							
Type:	Welded						
Part Number:							
Material	Alum x S	t.Steel Monel	Steel	OTHER			
Surface Finish:	Machine finish conv	erted and powder coated to	Qualicoat standard	S			
Length and Diameter:							
	(Atta	ach drawings if necessary)					

Page 6 of 11 This report is to be reproduced in full

Mid Rail (If applicable) Type: None Section Manufacturer's-Name: Number: **Attached Dimensional** Number: Issue: **Drawing-Material Type and Grade:** Mass per Meter Length (kg): **Surface Finish:** Weld Other Screw Rivet Frame: Means of Securing to-Infill: Weld Other Screw Rivet (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) <u>Locks</u> (If applicable) Internal handle only, no cylinder, with Roto NT multipoint Euro locking Type: (Description of mechanism and strikers including cylinder) Giesse/Schlegel and Part Number: 141419 Manufacturer's-Name: Roto **Construction Material-Body:** Die cast zinc **Striker:** Roto diecast zinc **Number of Locking Points:** 6 Handle (furniture) 141419 Flush handle-no key black Identification: Means of Mounting: Mechanical fastening (screw \times 2) **Mounting Location:** Centred on left or right hand vertical depending on handing

ENG54 / 9		Report No.: 6178
	Page 7 of 11	
	This report is to be reproduced in full	

Infill

TULLI											
Type and Fabrication Method:	n	Stainles	s stee	el wir	e mecha	nically b	onde	d to alum	inium fr	ame	
Manufacturer's-		Nam	e: F	orcef	ield			Part Nu	mber:	141412	
Attached Dimension Drawing-	al	Number: NA			Issue:		NA				
Material Type and G	rade:	316 Stainless steel					<u> </u>				
Surface Finish:	Surface Finish:			Black low sheen							
Diameter of Type 3	Infill:	0.8mm diameter wire									
Means of Securing:		Weld			Screw		F	Rivet		Other	X
(If m	neans of s	ecuring is	s OTH	⊥ IER, s	submit fu	II detail	s on a	a separate	sheet)		
Weld Details:											
Type of Weld and Pattern:											
Fastener Details:											
Туре:					Part Num	ber:					
Material	Alum		St.St	eel	M	Ionel		Steel		OTHER	
Surface Finish:									,		
Length and Diameter:											
Number Used and	Ind	licate on f	fiaure	 e 2							
Location:	1.70				Attach d	rawings	if ne	cessary)			
							AND DESCRIPTION OF THE PERSON NAMED IN	, ,	and the second second second second		
Himmon (TE P LT-)											
Hinges (If applicable)		elección de l'alternation des l'étre d'Electronis		DATE THE STATE OF				Number	Fitted	NΙΔ	
Type: Roto NT		Nana	0 1 D) oto				Number I		NA	
Type: Roto NT Manufacturer's-	al	Name		Roto				Part Nu	mber:	NA	
Type: Roto NT	al	Nam-	er:					Part Nu		NA	
Type: Roto NT Manufacturer's- Attached Dimension			er:		nised fold	ded stee		Part Nu	mber:	NA Solid	
Type: Roto NT Manufacturer's- Attached Dimension Drawing-		Numbe	er:	Salvar	nised fold	led stee		Part Nu	mber: Issue:		
Type: Roto NT Manufacturer's- Attached Dimension Drawing- Material Type and G		Numbe	er:	Salvar	nised fold	ded stee	el	Part Nu	mber: Issue:		
Type: Roto NT Manufacturer's- Attached Dimension Drawing- Material Type and G Surface Finish:		Numbe Leave	er:	Salvar	1		el	Part Nu	mber: Issue:	Solid	
Type: Roto NT Manufacturer's- Attached Dimension Drawing- Material Type and Grace Finish: Means of Securing:		Numbe Leave	er:	Salvar	1		el	Part Nu	mber: Issue:	Solid	
Type: Roto NT Manufacturer's- Attached Dimension Drawing- Material Type and G Surface Finish: Means of Securing: Weld Details: Type of Weld and Pattern: Fastener Details:	rade-	Numbe Leave Weld	er: es: s	Galvar	1		el	Part Nu	mber: Issue:	Solid	
Type: Roto NT Manufacturer's- Attached Dimension Drawing- Material Type and G Surface Finish: Means of Securing: Weld Details: Type of Weld and Pattern:	rade-	Numbe Leave Weld	er: es: s	Galvar	Screw	X		Part Nu	mber: Issue:	Solid	
Type: Roto NT Manufacturer's- Attached Dimension Drawing- Material Type and Gr Surface Finish: Means of Securing: Weld Details: Type of Weld and Pattern: Fastener Details: Type: Wurth raised of	rade-	Numbe Leave Weld	er: es: s	Galvar heet	Screw Part Num	X		Part Nu	mber: Issue:	Solid	
Type: Roto NT Manufacturer's- Attached Dimension Drawing- Material Type and G Surface Finish: Means of Securing: Weld Details: Type of Weld and Pattern: Fastener Details: Type: Wurth raised of Screw with AW	rade- countersu	Numbe Leave Weld	er: es: s drilling	Galvar heet	Screw Part Num	x x		Part Nu	mber: Issue: Pin:	Solid	
Type: Roto NT Manufacturer's- Attached Dimension Drawing- Material Type and Gr Surface Finish: Means of Securing: Weld Details: Type of Weld and Pattern: Fastener Details: Type: Wurth raised of screw with AW Material Surface Finish: Length and	countersu / Drive PI	Numbe Leave Weld nk head coas	er: es: s drilling	Galvar heet	Screw Part Num	x x		Part Nu	mber: Issue: Pin:	Solid	
Type: Roto NT Manufacturer's- Attached Dimension Drawing- Material Type and G Surface Finish: Means of Securing: Weld Details: Type of Weld and Pattern: Fastener Details: Type: Wurth raised of Screw with AW Material Surface Finish: Length and Diameter: Number Used and	countersul / Drive PI Alum Galvanis 3.5 x 25	Numbe Leave Weld nk head coas	drilling	Galvar heet	Screw Part Num	x x		Part Nu	mber: Issue: Pin:	Solid	
Type: Roto NT Manufacturer's- Attached Dimension Drawing- Material Type and G Surface Finish: Means of Securing: Weld Details: Type of Weld and Pattern: Fastener Details: Type: Wurth raised G Screw with AW Material Surface Finish: Length and Diameter:	countersul / Drive PI Alum Galvanis 3.5 x 25	Numbe Leave Weld nk head can be a sinced zinced zi	drilling	Galvar heet	Screw Part Num	nber:	02	Part Nu	mber: Issue: Pin:	Solid	
Type: Roto NT Manufacturer's- Attached Dimension Drawing- Material Type and Gr Surface Finish: Means of Securing: Weld Details: Type of Weld and Pattern: Fastener Details: Type: Wurth raised Gr Screw with AW Material Surface Finish: Length and Diameter: Number Used and Location:	countersul / Drive PI Alum Galvanis 3.5 x 25	Numbe Leave Weld nk head can be a sinced zinced zi	drilling	g ceel	Screw Part Num	nber:	02	Part Nu	mber: Issue: Pin:	Solid	

Track or Build Outs	(If applicable)				
Type: NA						
Manufacturer's-		Name:		Part Number:		
Attached Dimensior Drawing-	nal N	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)		(At	tach drawings if r	ecessary)		
Interlock (If applicab	ulo)					
Type: NA	ne)					
Manufacturer's-		Name:		Part Number:		
Attached Dimension Drawing-	ial Ni	umber:	, , , , , , , , , , , , , , , , , , , ,	Issue:		
Material Type and G	rade:					
Surface Finish:						
Fastener Details:						
Туре:			Part Number:			
Material	Alum	St.Steel	Monel	Steel OTHER		
Surface Finish:					2	
Length and Diameter:						
Number Used and Location:				· · · · · · · · · · · · · · · · · · ·		
(indicate on figure 1)		(At	tach drawings if r	ecessary)		
Rollers (If applicable))				gen konsulat er ska skiller skale	
Type: NA						
Manufacturer's-		Name:		Part Number:	11	
Attached Dimension Drawing-	nal Nu	umber:		Issue:		
Number Used and Location:						
(indicate on figure 1)		(At	tach drawings if r	ecessary)		
ENG54 / 9			2	Report No.: 6178		
			9 of 11			
		rins report is to b	e reproduced in full			

Manufactured By:	Prowler Proof
Sample Number:	P01-000255
	Location of Fixing Points, Locking Points, Hinges and Mid-Rail.
	All Dimensions in Millimetres.
	All Concealed, see DRWG P01-000255
\varkappa	006
	1500
	Figure 1
	riguic 1

ENG54 / 9 Report No.: **6178**Page 10 of 11

This report is to be reproduced in full

Manufactured By:	Prowler Proof
Sample Number:	P01-000255
	Means of Securing Infill to Framing, Location of Welds / Fasteners
	All Dimensions in Millimetres.
	1500
	1300
S.A.	
\times	
	Mechanically bonded around full perimeter of infill
	Figure 2

ENG54 / 9 Report No.: 6178 Page 11 of 11 This report is to be reproduced in full



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





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		
to make sure	heck (Tick box if ok) regulator seals are not broken/ PM che	ck before test	
	ce/ pressure apparatus ready for test	%Humidity = 69 % (Less than 80%)	
Calibrated by: NIMT		Temp.= 23 °C At time= 09.00 A.M.	
Certificated No.: MFT-0138-18		(23±5°C for force gauge)	
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	7.64 mm. (4 lines)	YES	
Test No 2	4.01 mm. (2 lines)	YES YES	
Test No 3	5.17 mm. (3 lines)	YES	
Observations: Test stro	ke 1 wire penetration 7.64 mm. (4 lines	s), Stroke 2 wire penetration 4.01 mm. (2 lines)	
Stroke 3 wire penetration	5.17 mm. (3 lines); Total wire penetra	tion = 16.82 mm. (9 lines).	
 AS 5041 require 	s continuous penetration to be less t	nan 150 mm after the third test.	
 Uncertainty of te 	est method = ± 0.110 mm		
PASS/ FAIL	NOTE: Cross out whichever does no	t apply.	
		A	
Tested by	Reviewed by	Approved by	
Name: Jakkrit Ud Date: 21 / January /	D : 01/T		

 \bullet TISI accredited testing laboratory No. $\underline{0243}$

End of Report --

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.



