ASSA ABLOY AUSTRALIA
235 Huntingdale Rd
Oakleigh, VIC 3166

TEST REPORT (5518)

Sliding Security Screen Door

FOR

(Gershwin Prowler Proof)

NATA
WORLD RECOGNISED ACCREDITATION

NATA Accredited Laboratory
Accreditation No.: 14812

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

Accredited for compliance with ISO/IEC 17025

Date of Issue: 25/10/2016

Test Report Sliding Security Screen Door			
Test Report Number:	5518	**PAM Number:**	
Manufactured By:	Prowler Proof	**Date of Submission:**	20/10/2016
Tested By:	D Gough	**Date:**	20/10/2016
Certified By:	C Korvin	**Date:**	20/10/2016
Witnessed By:	A How	**Date:**	20/10/2016

Details of Test Door

Type:	Security sliding door with a fixed glass panel
Make or Model:	Prowler Proof Force Field sliding security door-set within a Trend Quantum frame with fixed glass panel and PP/Trend interlocks
Sample Number:	P01-000197
Frame Size:	1850W x 2085mm H
Framing Material:	Treated pine outer/ Al 6060-T5 aluminium members
Constructional Description of Test Security Sliding Door:	
Aluminium section with woven SS316 mesh. Fitted also with a fixed laminated glass panel. See Drwg-P0-000197 for details	

Details of Test door Infill

Type and Fabrication Method:	Woven stainless steel mesh
Manufacturer's Name / Part Number:	Meshtec International

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:	0.8mm 316 stainless steel
Mass per m^2 (kg):	Mass not stated/ 11/10.5 strands per square inch
Knife Shear Test:	Yes. Meshtec 11-032-KS 25/05/2012

(Above details supplied by customer not by testing authority)

Test Report
Sliding Security Screen Door
Test Rig # S-003.

Dynamic Impact Test – AS 5039/5041-2003

Measurement Before Impact Test at Impact Point (datum reading):15mm			
Test	**Remarks**	**Pass**	**Fail**
Impact One:	15mm deformation	Y	
Impact Two:	18mm deformation	Y	
Impact Three:	18mm deformation	Y	
Impact Four:	20mm deformation	Y	
Impact Five:	20mm deformation	Y	
150mm Diameter Probe test using R.M.F:	Not required		
Infill Type Probe test:	Yes <3mm. pass		

Jemmy Tests – AS 5039/5041-2003

Location	Remarks	Pass	Fail
Centre Locking Point:	At 902N, top strike screw broke, the lock distorted but held	Y	
Bottom Locking Point:	At 502N, bottom strike screw broke, s/lock screw broke but held	Y	
Top Locking Point:	224N, the s/lock was distorted. Door held.	Y	

Infill Pull Tests – AS 5039/5041-2003

Location	A 450mm Maximum	B 150mm Maximum	C 100x100mm Maximum	D	E	Pass	Fail
Horizontal, Locking point (2.0kN):							
Centre of Infill (1.5kN):							
Centre of Locking side (1.5kN):							
Centre of Non-Locking Side (1.5kN):							
Top Rail Centre (1.5kN @ 18°):							
Bottom Rail Centre (2.0 kN):							
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: NA

Overall Test Sample as per P01-000197 DRWG passed the requirements of AS5039

Remarks:
The mesh withstood the impact blows with minimum distortion.
The main lock and slave locks, although damaged held the door secure.
The glass panel wasn't damaged
The interlock device was deemed secure, as an effective "jemmy" purchase point couldn't be achieved.

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 ..... C. KORVIN (Refer WE176) Date 25/10/2016

Identification Details for Security Sliding Door Submitted for Type Testing in Accordance to AS 5039/5041-2003

(Informative)

General

Model Number / Name:	Trend Quantum FX FF2016
Sample Number:	P0-000197
Manufactured By:	Prowler Proof
Date of Submission:	20/10/2016
Description:	Prowler Proof Force Field sliding security door-set within a Trend Quantum frame with a fixed glass panel and PP/Trend interlocks as per DRWG P01-000197

This information to be clearly marked on test door.

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:	Extruded Aluminium		
Manufacturer's-	**Name:** Prowler Proof	**Section Number:**	FFD19
Attached Dimensional Drawing-	**Number:**	**Issue:**	
Material Type and Grade:	Aluminium 6060-T5		
Surface Finish:	Powder coat		
Mass per Metre Length (kg):			
Mounting Frame Material:	See attached Drwg		

(Attach drawings if necessary)

Corner Stake

Type:	NA- Welded unit		
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		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

Type: (Description of mechanism including cylinder)	Lockwood 8653 triple point security door lock with Lockwood anti-drill Euro 5 pin cylinder			
Manufacturer's-	**Name:**	ASSA ABLOY	**Part Number:**	8653
Construction Material-	**Body:**	Diecast zinc	**Striker:**	S/steel
Number of Locking Points:	3			
Handle (furniture) Identification:	8653 Lock furniture			
Means of Mounting:	As per manufacturer's instructions attached			
Mounting Location:	Indicate on figure 1.			

Infill

Type and Fabrication Method:	Woven stainless steel mesh								
Manufacturer's-	**Name:**	Meshtec International			**Part Number:**	SS mesh BK			
Attached Dimensional Drawing-	**Number:**	See P01-000197			**Issue:**				
Material Type and Grade:	0.8mm 316 Stainless Steel								
Surface Finish:	Powder coated								
Diameter of Type 3 Infill:	0.8mm wire								
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: NA

Fastener Details:

Type:	Bonded at every contact point				**Part Number:**	See Drwg			
Material	Alum		St.Steel		Monel		Steel		OTHER	
Surface Finish:	NA								
Length and Diameter:	Full perimeter of door/mesh contact point								
Number Used and Location:	Indicate on figure 2								

(Attach drawings if necessary)

Track or Build Outs

Type:	Trend head track- AL6060-T5 Trend sill track-AL6060-T5								
Manufacturer's-	**Name:**				**Part Number:**	Head-D048 Sill-D200H			
Attached Dimensional Drawing-	**Number:**	See P01-000197			**Issue:**				
Material Type and Grade:	AL6060-T5								
Surface Finish:	Powder coated								

Fastener Details:

Type:	**ASS Pan Head AW20**				**Part Number:**				
Material	Alum		St.Steel		Monel		Steel	X	OTHER	
Surface Finish:	Zinc plated								
Length and Diameter:	4.5 x 25mm long								
Number Used and Location:	See Drwg								

(Attach drawings if necessary)

Interlock

Type:	Interlock-A & Mullion				
Manufacturer's-	**Name:**	Prowler Proof	**Part Number:**	P01-000180 P01-000182	
Attached Dimensional Drawing-	**Number:**	P01-000197	**Issue:**		
Material Type and Grade:	AL6060-T5				
Surface Finish:	Powder coated				

Fastener Details:

Type: **Zebra Pias Pan head AW20 4.2 x 22mm long** **Part Number:**

Material	Alum		St.Steel	X	Monel		Steel		OTHER	

Surface Finish:	S/Steel
Length and Diameter:	4.2mm x 22 mm long
Number Used and Location:	See Drwg

(Attach drawings if necessary)

Rollers

Type:	Speed Fit offset roller			
Manufacturer's-	**Name:**	Lincoln Sentry	**Part Number:**	3305206
Attached Dimensional Drawing-	**Number:**		**Issue:**	
Number Used and Location:	4 (2 top and 2 bottom) See P01-000197			

(Attach drawings if necessary)

Lock Stile Receiver Channel

Type:	Solid door jamb, AL6060-T5 Powder coated			
Manufacturer's-	**Name:**	Trend	**Part Number:**	D003

Manufactured By: See P01-000197

Sample Number:

Size of Door and Location of Locking Points, Rollers and Mid-Rail.

All Dimensions in Millimetres.

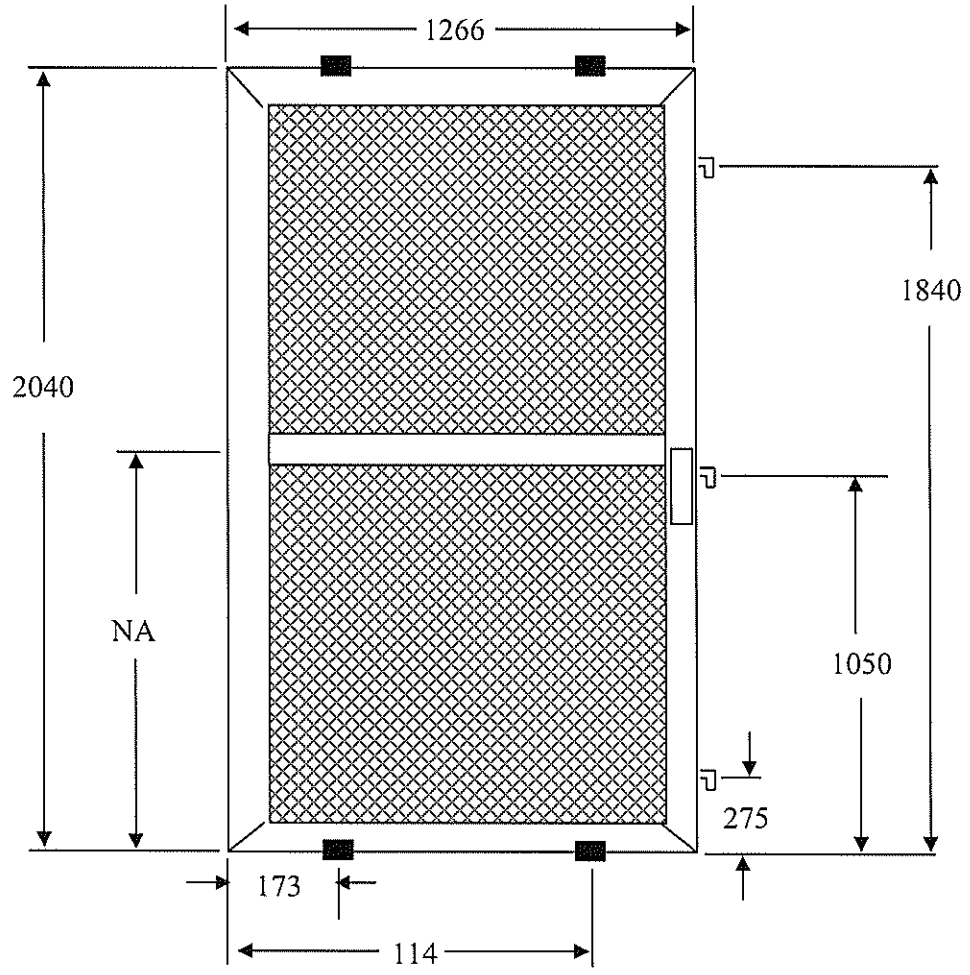

Figure 1

Manufactured By: See P01-000197

Sample Number:

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

All Dimensions in Millimetres.

Bonded all around mesh to frame

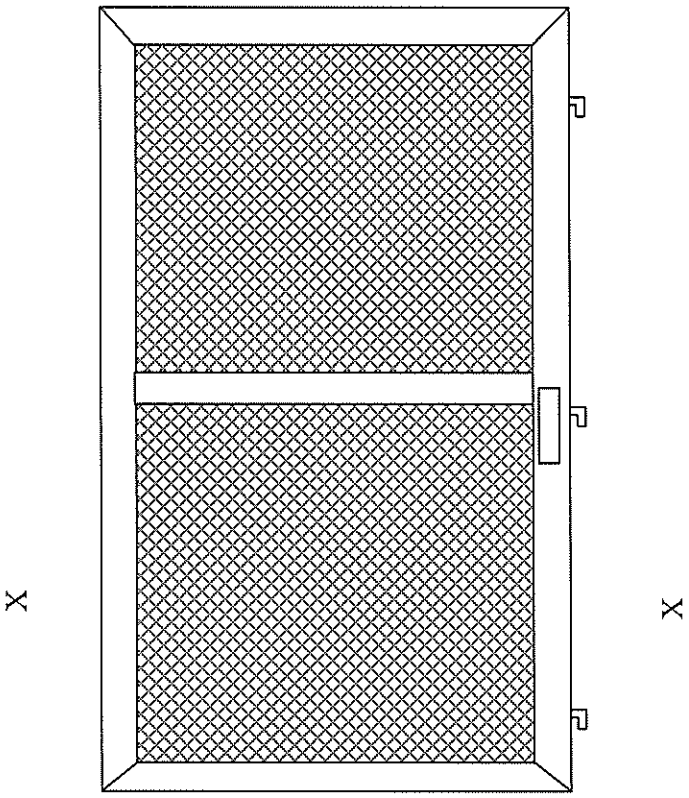

Figure 2