A.C.N. 086 451 907

ASSA ABLOY AUSTRALIA
235 Huntingdale Rd
Oakleigh, VIC 3166

TEST REPORT (5516)

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: 26/10/2016

Test Report Sliding Security Screen Door			
Test Report Number:	5516	**PAM Number:**	
Manufactured By:	Prowler Proof	**Date of Submission:**	
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:	Sliding security screen door with a fixed laminated glass panel
Make or Model:	Prowler Proof Protec sliding security door-set within a Trend Quantum frame with fixed glass panel and PP/Trend interlocks.
Sample Number:	P10-000144
Frame Size:	1995 W x 2195mm H
Framing Material:	Treated pine outer. Test screen door/tracks etc Aluminium 6060-T5
Constructional Description of Test Security Sliding Door:	
Aluminium section with perforated aluminium sheet infill. Fitted also with a fixed glass panel. See Drwg P10-000144	

Details of Test door Infill

Type and Fabrication Method:	Perforated aluminium sheet
Manufacturer's Name / Part Number:	Prowler Proof AL Mesh BK

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:	Aluminium 1.6mm thick with 2.5mm holes- 1.7mm spacing
Mass per m^2 (kg):	Not Stated
Knife Shear Test:	Yes. Azuma AZT0304.14 -14/10/2014

(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): 19mm			
Test	**Remarks**	**Pass**	**Fail**
Impact One:	11mm deformation	Y	
Impact Two:	15mm deformation	Y	
Impact Three:	15mm deformation	Y	
Impact Four:	16mm deformation	Y	
Impact Five:	18mm deformation	Y	
150mm Diameter Probe test using R.M.F:			
Infill Type Probe test:	Passes <3mm		

Jemmy Tests – AS 5039/5041-2003

Location	Remarks	Pass	Fail
Centre Locking Point:	983N strike bottom screw gone, lock body distorted -door held	Y	
Bottom Locking Point:	649N distorted slave lock, strike bent but secure-door held	Y	
Top Locking Point:	642N top screw of slave lock gone, s/lock distorted, strike OK-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:

Overall Test Passes the requirements of AS5039/41

Remarks:

The mesh withstood the impacts with the minimum of distortion.
Although the main lock and slave locks were distorted, they still held the door secure.

The glass panel wasn't damaged in any way.

The interlock device/sections were deemed secure, as any 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 KERVIN (Refer WE176) Date 26/10/2016

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 Protec 2016
Sample Number:	P10-000144
Manufactured By:	Prowler Proof
Date of Submission:	20/10/2016
Description:	Prowler Proof Protec sliding security screen door-set within a Trend Quantum frame with a fixed glass panel and PP/Trend interlocks.

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 coated			
Mass per Metre Length (kg):				
Mounting Frame Material:	See attached drawing			

(Attach drawings if necessary)

Corner Stake

Type:	N/A			
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: N/A

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 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

Mounting Location: Indicate on figure 1.

Infill

Type and Fabrication Method:	Perforated aluminium mesh sheet						
Manufacturer's-	**Name:**	Prowler Proof		**Part Number:**	AL mesh BK		
Attached Dimensional Drawing-	**Number:**	See attached page Shear test		**Issue:**			
Material Type and Grade:	1.6mm Aluminium with 2.5mm holes						
Surface Finish:	Powder coated						
Diameter of Type 3 Infill:							
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: N/A

Fastener Details:

Type:	Bonded- every contact point				**Part Number:**	See drawing			
Material	Alum		St.Steel		Monel		Steel		OTHER	X
Surface Finish:	N/A								
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:**	Trend			**Part Number:**	Head-D048 Sill-D200H			
Attached Dimensional Drawing-	**Number:**	See P10-000144			**Issue:**				
Material Type and Grade:	AL 6060-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 attached drawing								

(Attach drawings if necessary)

Interlock

Type:	Interlock-A & Mullion				
Manufacturer's-	**Name:**	Prowler Proof	**Part Number:**	P01-000180 P01-000182	
Attached Dimensional Drawing-	**Number:**	P10-000144	**Issue:**		
Material Type and Grade:	AL6060-T5				
Surface Finish:	Powder coated				

Fastener Details:

Type: **Zebra PIAS-Pan head AW20 4.2 x 16mm** **Part Number:**

Material	Alum		St.Steel		Monel		Steel		OTHER	

Surface Finish:	S/Steel
Length and Diameter:	4.2 x 16 mm long
Number Used and Location:	See attached drawing

(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 drawing P10-000144			

(Attach drawings if necessary)

Lock Stile Receiver Channel

Type:	SLD DR JAMB AL6060-T5 Powder coated			
Manufacturer's-	**Name:**	Trend	**Part Number:**	D003

Manufactured By: See P10-000144 Drwg

Sample Number:

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

All Dimensions in Millimetres.

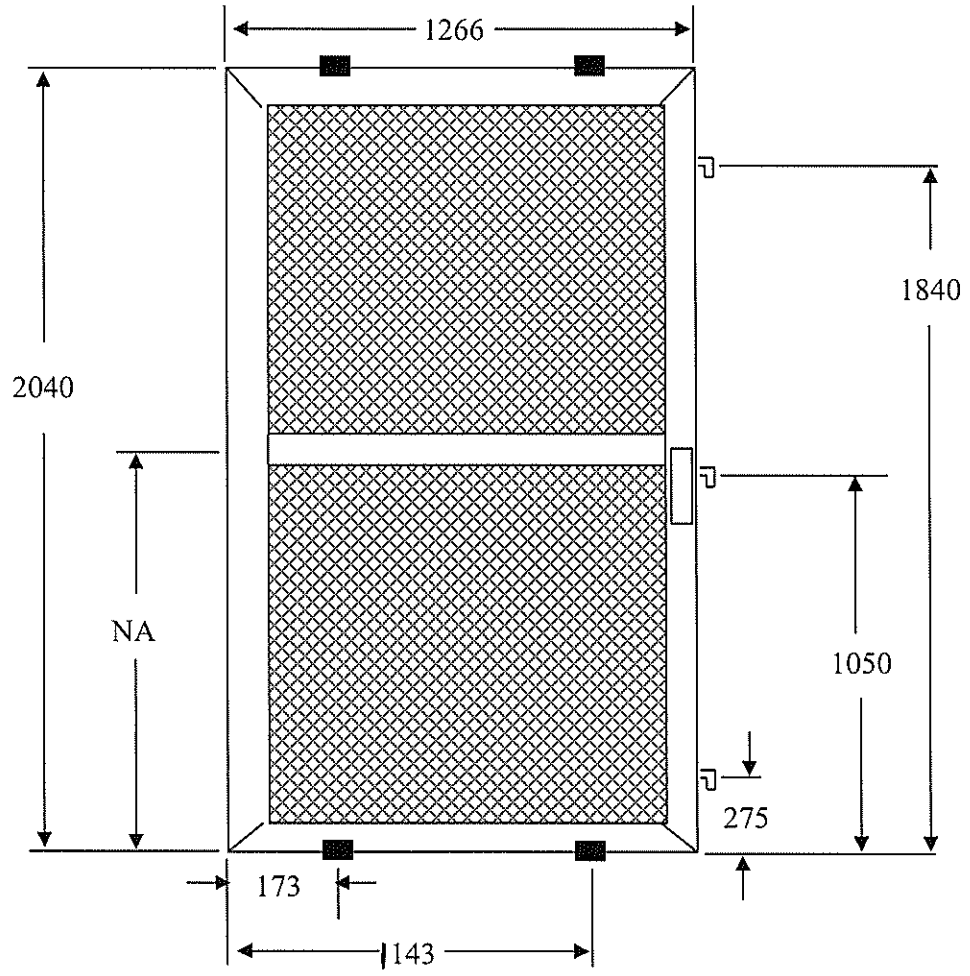

Figure 1

Manufactured By: See P10-000144

Sample Number:

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

All Dimensions in Millimetres.

Bonded all the way around
mesh/frame contact

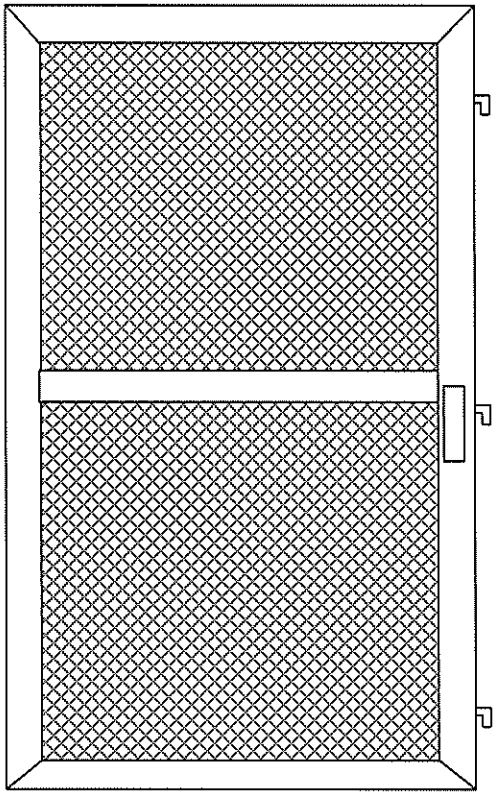

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Figure 2