

ASSA ABLOY AUSTRALIA

TEST REPORT 2012040-1

**1HE Guardian standard frame hinged door
shutter**

FOR

Guardian screens and shutters



**NATA Accredited Laboratory
Number: 14426**

**Accredited for compliance with ISO/IEC
17025**

Date of issue: 08/06/2012

ASSA ABLOY Australia

Test Report Hinged Security Screen Door			
Test Report Number:	2012040-1	Project Number:	10237
Manufactured By:	Guardian screens and shutters	Date of Submission:	04/06/2012
Tested By:	A Sterrenberg	Date:	04/06/2012
Certified By:	A Sterrenberg	Date:	04/06/2012
Witnessed By:	Rod Collins	Date:	04/06/2012

Details of Test Door

Type:	Hinged shutter door
Make or Model:	Guardian hinged shutter 1 HE
Sample Number:	2012040-1
Gap Between Door and Mounting Frame:	- Lock side: 3.25mm
	- Hinge side: 2.43mm
Frame Size:	2045mm (H) x 870mm (W)
Framing Material:	Pinus Radiata.
Constructional Description of Test Security Hinged Door:	
Hinged door with Aluminium Louvre blade infill. The hinged door is locked with central locking point and top and bottom shoot bolts. The swing of the louvre blades is not secured.	

Details of Test door Infill

Type and Fabrication Method:	Aluminium louvre blades – Hollow extruded aluminium
Manufacturer's Name / Part Number:	Inex - GSELB
Material Type and Grade:	Aluminium 6060 alloy – T5
Opening (Type 2 infill)	
h – Largest opening dimension.	720mm
w – Opening perpendicular to h	60.6mm
Maximum allowable w dimension in relation to h (AS5039 5.2 b)	If $h = 720\text{mm}$, Then $w \leq (150 \times 300) / 720 = 62.5\text{mm}$

(Above details supplied by customer not by testing authority)

Test Report Hinged Security Screen Door

Dynamic Impact Test – AS 5039 / 5041

(Impact tests were performed in the closed position)

Measurement Before Impact Test at Impact Point (datum reading): 10mm			
Test	Remarks	Pass	Fail
Impact One:	1 mm Deflection from datum. Louvre panels and locking points secure.	✓	-
Impact Two:	1 mm Deflection from datum. Louvre panels and locking points secure.	✓	-
Impact Three:	1 mm Deflection from datum. Louvre panels and locking points secure.	✓	-
Impact Four:	1 mm Deflection from datum. Louvre panels and locking points secure.	✓	-
Impact Five:	2 mm Deflection from datum. Louvre panels and locking points secure.	✓	-
150mm Diameter Probe test using R.M.F:	Type 2 Infill – opening 720mm x 60mm	✓	-

Jemmy Tests – AS 5039 / 5041

Location	Remarks	Pass	Fail
Centre Locking Point:	401.7Nm at full rotation of lever. Locking point secure.	✓	-
Bottom Locking Point:	105.6Nm at full rotation of lever. Locking point secure.	✓	-
Top Locking Point:	97.8Nm at full rotation of lever. Locking point secure.	✓	-
Centre Hinge:	130.2Nm at full rotation of lever. Hinge point secure.	✓	-
Bottom Hinge	136.5Nm at full rotation of lever. Hinge point secure.	✓	-
Top Hinge:	118.8Nm at full rotation of lever. Hinge point secure.	✓	-

Infill Pull Tests – AS 5039/ 5041

Location	A 450mm Maximum	B 150mm Maximum	C 100x100mm Maximum	D	E	Pass	Fail
Centre Grille (1.5kN):	Pass	Pass	N/A	Pass	Pass	✓	-
Midrail	Pass	Pass	N/A	Pass	Pass	✓	-
Bottom corner – Lock side (2kN @ 18°)	Pass	Pass	N/A	Pass	Pass	✓	-
Bottom corner – Lock side (2kN @ 18°)	Pass	Pass	N/A	Pass	Pass	✓	-

- A - Maximum size of any gap between grille and grille frame or grille frame and door frame under load (dynamic).
 B - Maximum size of any gap between grille and grille 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.

Overall Test **Pass**

Remarks:

Impact test - Pass.

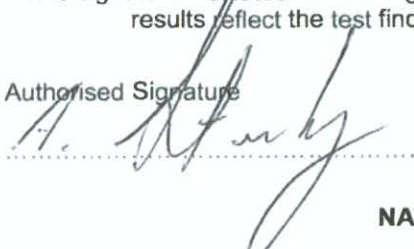
Jemmy tests - Pass

Pull tests - Pass

Type 2 infill - Aperture opening requirements - AS5039 5.2 b - If $h = 720\text{mm}$, Then $w \leq (150 \times 300) / 720 = 62.5\text{mm}$ - (Actual - $w = 60.6\text{mm}$) - Pass

Type 2 infill - Probe test, Aperture size greater than 300mm in one direction - AS 5039 7.5 - 150mm probe - Pass (Actual 126mm)

This signature indicates that testing has been conducted in accordance to the current test methods of AS 5039, and test results reflect the test findings. This report is true for the test sample presented on the day of testing.

Authorised Signature	Print Name	Date
	A. Sterrenberg	08/06/2012

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