

ASSA ABLOY AUSTRALIA

## **TEST REPORT 2012040-2**

**1HB Guardian Standard Frame Window 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 Window Shutter**

<b>Test Report Number:</b>	2012040-2	<b>Project Number:</b>	10237
<b>Manufactured By:</b>	Guardian screens and shutters	<b>Date of Submission:</b>	04/06/2012
<b>Tested By:</b>	A Sterrenberg	<b>Date:</b>	04/06/2012
<b>Certified By:</b>	A Sterrenberg	<b>Date:</b>	04/06/2012
<b>Witnessed By:</b>	Rod Collins	<b>Date:</b>	04/06/2012

**Details of Test Door**

<b>Type:</b>	Hinged casement window shutter with Aluminium Louvre blade infill. The shutter is locked with a top and bottom shoot bolt. The swing of the Louvre blades is not secured.		
<b>Make or Model:</b>	Guardian hinged casement shutter		
<b>Sample Number:</b>	2012040-2		
<b>Gap Between Panel and Mounting Frame:</b>	<b>- Lock side:</b>	3.14mm	
	<b>- Hinge side:</b>	2.51mm	
<b>Frame Size:</b>	1500mm (H) x 900mm (W)		
<b>Framing Material:</b>	Pinus Radiata.		

**Details of Test door Infill**

<b>Type and Fabrication Method:</b>	Aluminium louvre blades – Hollow extruded aluminium		
<b>Manufacturer's Name / Part Number:</b>	Inex - GSELB		
<b>Material Type and Grade:</b>	Aluminium 6060 alloy – T5		
<b>Opening (Type 2 infill)</b>			
<b>h – Largest opening dimension.</b>	720mm		
<b>w – Opening perpendicular to h</b>	60.6mm		
<b>Maximum allowable w dimension in relation to h (AS5039 5.2 b)</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 Window Shutter

### Dynamic Impact Test – AS 5039 / 5041

Measurement Before Impact Test at Impact Point (datum reading): 10mm		Pass	Fail
Test	Remarks		
Impact One:	1 mm Deflection from datum. Louvre panels and locking points secure.	✓	-
Impact Two:	2 mm Deflection from datum. Louvre panels and locking points secure.	✓	-
Impact Three:	4 mm Deflection from datum. Louvre panels and locking points secure.	✓	-
Impact Four:	4 mm Deflection from datum. Louvre panels and locking points secure.	✓	-
Impact Five:	4 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
Bottom Locking Point:	136.5Nm at full rotation of lever. Locking point secure.	✓	-
Top Locking Point:	169.8Nm at full rotation of lever. Locking point secure.	✓	-
Bottom Hinge	166.8Nm at full rotation of lever. Hinge point secure.	✓	-
Top Hinge:	157.4Nm 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	✓	-
Top 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

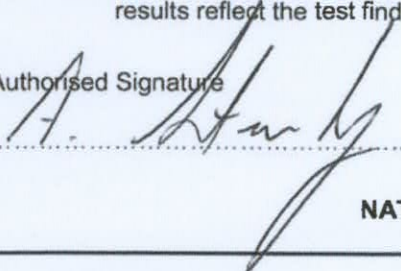
Pull tests - Pass

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

A. Sterrenberg

Date

08/06/2012

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