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

Test Report Hinged Window Shutter			
Test Report Number:	2012040-2	**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 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.	
Make or Model:	**Guardian hinged casement shutter**	
Sample Number:	2012040-2	
Gap Between Panel and Mounting Frame:	**- Lock side:**	3.14mm
	- Hinge side:	2.51mm
Frame Size:	1500mm (H) x 900mm (W)	
Framing Material:	Pinus Radiata.	

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 = 720mm, Then w ≤ (150x300) / 720)* = ***62.5mm***

(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			
Test	**Remarks**	**Pass**	**Fail**
Impact One:	1 mm Deflection from datum. Louvre panels and locking points secure.	ü	-
Impact Two:	2 mm Deflection from datum. Louvre panels and locking points secure.	ü	-
Impact Three:	4 mm Deflection from datum. Louvre panels and locking points secure.	ü	-
Impact Four:	4 mm Deflection from datum. Louvre panels and locking points secure.	ü	-
Impact Five:	4 mm Deflection from datum. Louvre panels and locking points secure.	ü	-
150mm Diameter Probe test using R.M.F:	Type 2 Infill – opening 720mm x 60mm	ü	-

Jemmy Tests – AS 5039 / 5041

Location	Remarks	Pass	Fail
Bottom Locking Point:	136.5Nm at full rotation of lever. Locking point secure.	ü	-
Top Locking Point:	169.8Nm at full rotation of lever. Locking point secure.	ü	-
Bottom Hinge	166.8Nm at full rotation of lever. Hinge point secure.	ü	-
Top Hinge:	157.4Nm at full rotation of lever. Hinge point secure.	ü	-

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**	ü	**-**
Top corner – Lock side (2kN @ 18°)	**Pass**	**Pass**	**N/A**	**Pass**	**Pass**	ü	**-**
Bottom corner – Lock side (2kN @ 18°)	**Pass**	**Pass**	**N/A**	**Pass**	**Pass**	ü	**-**

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 = 720mm, Then w ≤ (150x300) / 720) =* ***62.5mm*** **– (Actual – w = 60.6mm) - 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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