

ASSA ABLOY AUSTRALIA

TEST REPORT # 2012026-1

Clearshield Hinged Security Screen Door
Model No.CSUSHGD002

FOR

Clearshield Australia



NATA Accredited Laboratory
Number: 14426

Accredited for compliance with ISO/IEC
17025

Date of issue: 18/05/2012

ASSA ABLOY Australia

Test Report Hinged Security Screen Door

Test Report Number: 2012026-1	Project Number: 10237
Manufactured By: Clearshield Australia	Date of Submission: 18/04/2012
Tested By: A Sterrenberg and C Horton	Date: 19/04/2012
Certified By: A Sterrenberg	Date: 19/04/2012
Witnessed By: Andries Botha	Date: 19/04/2012

Details of Test Door

Type:	Hinged security screen door with Perforated stainless steel infill
Make or Model:	CSUSHGD002
Sample Number:	CS002
Gap Between Door and Mounting Frame:	- Lock side: 2.96mm
	- Hinge side: 3.72
Frame Size:	1970mm (H) x 870mm (W)
Framing Material:	Pinus Radiata.

Constructional Description of Test Security Hinged Door:

An aluminium hinged security screen door containing perforated stainless steel infill – Type3.

Infill

Type and Fabrication Method:	Perforated Stainless Steel Sheet		
Manufacturer's- Attached Dimensional Drawing-	Name:	Metaltech Corp	Part Number: -
	Number:	-	Issue: -
Material Type and Grade:	304 grade Stainless Steel		
Surface Finish:	Powder Coated		
Diameter of Type 3 Infill:	0.8mm thickness_2.0mm hole @ 3.0mm spacing		
Means of Securing:	<input type="checkbox"/> Weld	<input type="checkbox"/> Screw	<input type="checkbox"/> Rivet <input checked="" type="checkbox"/> Other
(If means of securing is OTHER, submit full details on a separate sheet)			
Number Used and Location:	Indicate on figure 2		

Test Report Hinged Security Screen Door

Dynamic Impact Test – AS 5039 / 5041

Measurement Before Impact Test at Impact Point (datum reading): 10mm		Pass	Fail
Test	Remarks		
Impact One:	24mm Deflection from datum. Sheet secure in frame.	✓	-
Impact Two:	33mm Deflection from datum. Sheet secure in frame.	✓	-
Impact Three:	32mm Deflection from datum. Sheet secure in frame.	✓	-
Impact Four:	33mm Deflection from datum. Sheet secure in frame.	✓	-
Impact Five:	34mm Deflection from datum. Sheet secure in frame.	✓	-
150mm Diameter Probe test using R.M.F:		✓	-

Jemmy Tests – AS 5039 / 5041

Location	Remarks	Pass	Fail
Centre Locking Point:	289Nm at full rotation of lever. Locking point secure.	✓	-
Bottom Locking Point:	155Nm at full rotation of lever. Locking point secure.	✓	-
Top Locking Point:	146Nm at full rotation of lever. Locking point secure.	✓	-
Centre Hinge:	191Nm at full rotation of lever. Hinge point secure.	✓	-
Bottom Hinge	221Nm at full rotation of lever. Hinge point secure	✓	-
Top Hinge:	251Nm 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):	No gaps arose to allow for pull tests – Type 3 infill - Pass						
Bottom corner – Lock side (2kN @ 18°)							
Bottom corner – Lock side (2kN @ 18°)							

- 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.

Force Probe Test (Type 2 infill material only) **N/A**

Overall Test **Pass**

Remarks:

Impact test – Pass.

Jemmy tests – Pass

Pull tests – Pass

This signature indicates that testing has been conducted in accordance to the current 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. Sternberg

18/05/2012

(Refer QP4.1.2.2.1 "Position Requirements Procedure")
NATA Accredited for compliance with ISO/IEC 17025

General

Model Number / Name:	CSUSHGD002
Sample Number:	CS002
Manufactured By:	Clearshield Australia
Date of Submission:	16_4_2012
Description:	Clearshield Hinged 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:	Aluminium		
Manufacturer's-	Name: Darley	Section Number:	CLS021
Attached Dimensional Drawing-	Number: CLS021	Issue:	2
Material Type and Grade:	6063/T5		
Surface Finish:	Powder coated		
Mass per Metre Length (kg):	.759kg/M		
Mounting Frame Material:	Powder coated aluminium		
(Attach drawings if necessary)			

Corner Stake

Type:	Aluminium		
Manufacturer's-	Name: Darley	Section Number:	CLS024
Attached Dimensional Drawing-	Number: CLS024	Issue:	0
Material Type and Grade:	6063/T5		
Surface Finish:	Mill		
(If a corner stake is not used, describe the method of joining the frames)			
Fastener Details:			
Type:	Rivet		
Part Number:			
Material	Alum <input checked="" type="checkbox"/>	St.Steel <input type="checkbox"/>	Monel <input type="checkbox"/>
	X <input type="checkbox"/>	<input type="checkbox"/>	Steel <input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	OTHER <input type="checkbox"/>
Surface Finish:	Anodised		
Length and Diameter:	5mm Diameter_16mm length		
(Attach drawings if necessary)			

Locks

Type: (Description of mechanism including cylinder)	Lockwood 8654 hinged security screen door lock fitted with a Lockwood 5 pin lock Cylinder.8654 Step over striker plates utilised.		
Manufacturer's-	Name: Lockwood (ASSA ABLOY)	Part Number: 8654	
Construction Material-	Body: Cast zinc and steel plate	Striker: Stainless steel stepover strikes	
Number of Locking Points:	3 - hook bolts		
Handle (furniture) Identification:	8654 lever handle furniture		
Means of Mounting:	As per manufacturer's instruction		
Mounting Location:	Indicate on figure 1.		

Infill

Type and Fabrication Method:	Perforated Stainless Steel		
Manufacturer's-	Name: Metaltech	Part Number:	
Attached Dimensional Drawing-	Number:	Issue:	
Material Type and Grade:	304 grade Stainless Steel		
Surface Finish:	Powder coated		
Diameter of Type 3 Infill: (If applicable)	0.8mm thickness_2.0mm Hole_3.0mm spacing		
Means of Securing:	Weld <input type="checkbox"/>	Screw <input type="checkbox"/>	Rivet <input type="checkbox"/> Other <input checked="" type="checkbox"/>
(If means of securing is OTHER, submit full details on a separate sheet)			
(Attach drawings if necessary)			

Hinges

Type: Whitco	Number Fitted: 3
Manufacturer's-	Name: ASSA ABLOY Part Number: W831417
Attached Dimensional Drawing-	Number: - Issue: -
Material Type and Grade-	Leaves: Steel Pin: Steel fixed pin
Surface Finish: PC Black	
Means of Securing:	Weld <input type="checkbox"/> Screw <input type="checkbox"/> Rivet <input checked="" type="checkbox"/> Other <input type="checkbox"/>
(If means of securing is OTHER, submit full details on a separate sheet)	

Fastener Details:

Type: Rivet	Part Number: -
Material	Alum <input checked="" type="checkbox"/> St.Steel <input type="checkbox"/> Monel <input type="checkbox"/> Steel <input type="checkbox"/> OTHER <input type="checkbox"/>
Surface Finish:	Anodised
Length and Diameter:	5.0mm diameter _16mm long CSK heads
Number Used and Location:	3

Manufactured By: Clearshield Australia

Sample Number: CS002

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

All Dimensions in Millimetres.

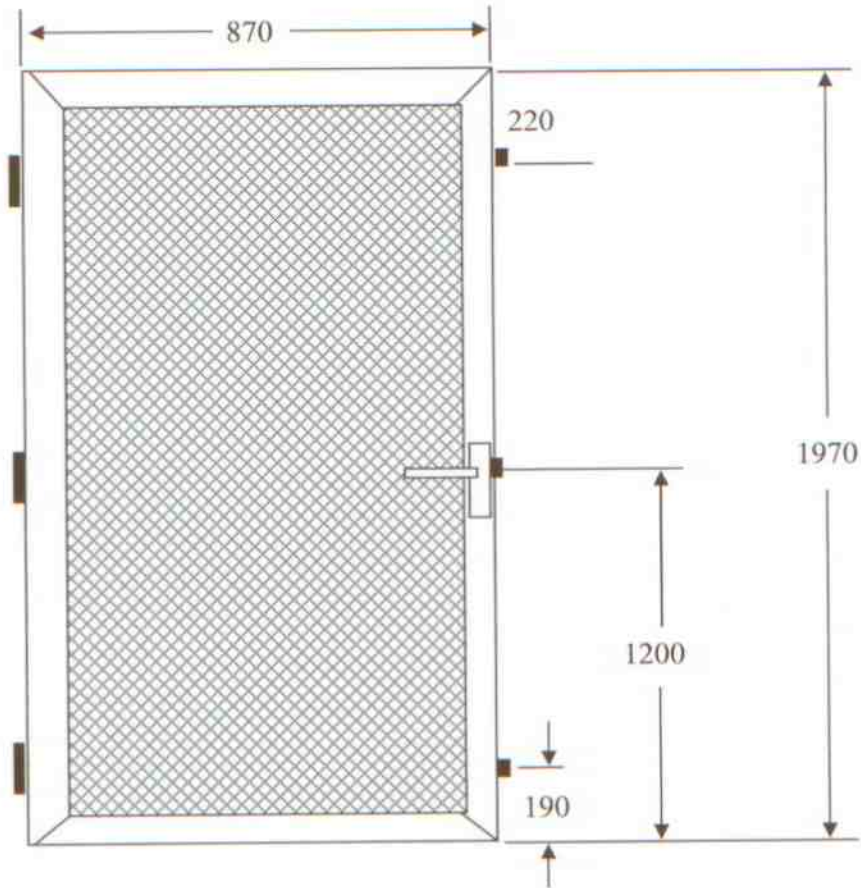


Figure 1

Manufactured By: Clearshield Australia

Sample Number: CS002

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

All Dimensions in Millimetres.

Secured around full perimeter – Refer
Clearshield Patented Infill Retention Method.

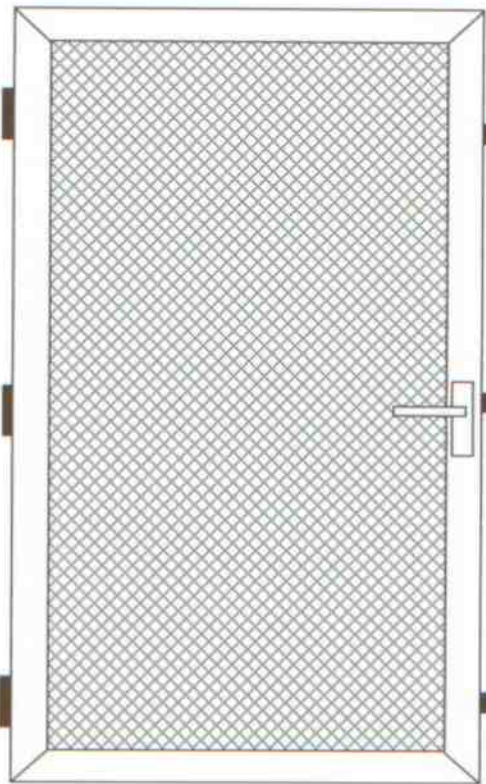


Figure 2