



**A Z U M A**  
Design



# AS5039 TEST REPORT

## Hinged door

**Azuma Design Pty Ltd**

Address: 52 Justin Street, Smithfield NSW 2164 Australia PH: 61(02)9604 0255

AZUMA TESTING REPORT #AZT0299.14

**HINGED SECURITY SCREEN DOOR**

Manufactured By: Prowler Proof

Tested By: Rob Irwin Date: 15/10/14

Certified By: Rob Irwin Date: 15/10/14

Witnessed By: Ash Horne Date: 15/10/14

**Details of Test Door**

Sample Identification: Protec Hinged Door

Size: 2190 (H) x 1015 (W) mm

Gap between Door and Mounting Frame Lock Side (mm): 3.78mm

Hinge Side (mm): 3.66mm

Lock description: Lockwood 3 point (trilock)

Hinge description: 80mm Whitco

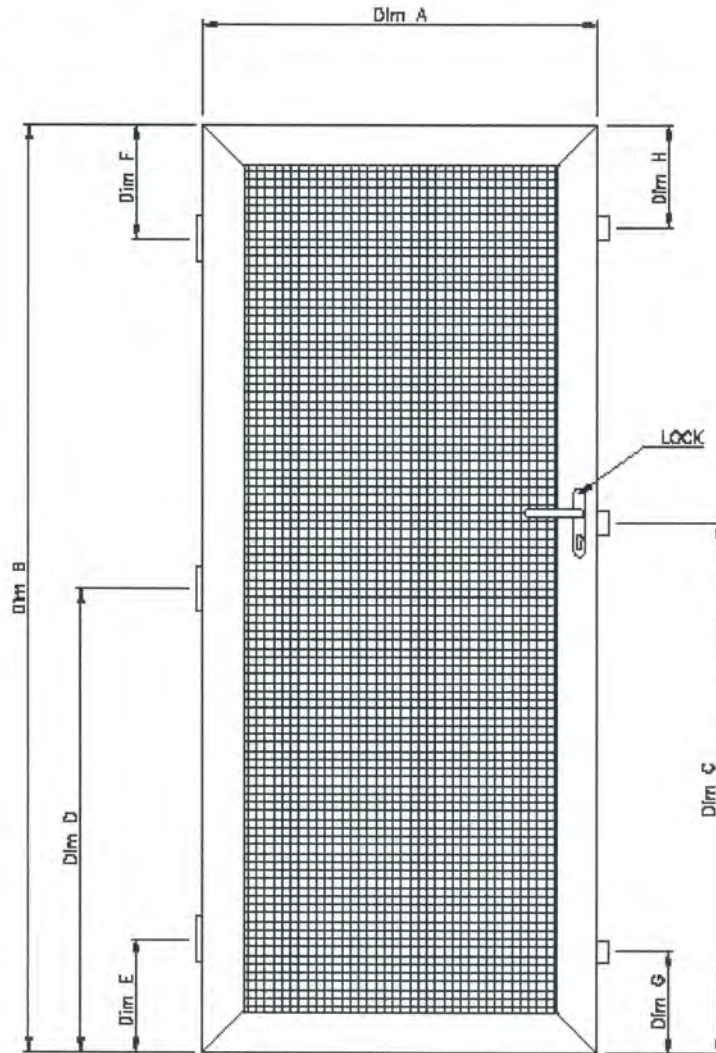
Type of Material Used in Mounting Frame: Treated Pine

Constructional Description of Test Door: Hinged door with perforated mesh infill mounted in a timber frame with 3 locking points

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**Dimensions (in mm):**



Dimension A = 870mm

Dimension B = 2040mm

Dimension C = 1170mm

Dimension D = 1110mm

Dimension E = 155mm

Dimension F = 160mm

Dimension G = 285mm

Dimension H = 185mm

Left hand or Right hand operation: Right

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**Details of Door Infill**

Manufactured By: Prowler Proof Type: III  
Material thickness: 1.6mm Spacing: 1.6mm  
Aperture: 2.5mm Material type and grade: Aluminium

**Dynamic Impact Test**

Check weight of Impact bag: 44.120 kilograms

Drop Height of Impact bag for 100 J blow: (using formula  $\frac{10204}{w} = h$ )

w = weight of bag in kilograms  
h = drop height in millimeters

**Observations**

Standard: 12mm

Impact 1: 18mm

Impact 2: 19mm

Impact 3: 21mm

Impact 4: 20mm

Impact 5: 21mm

**Result:** PASS

**Remarks:** NIL

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**Lock and Hinge Lever Test**

LOCATION	PASS	FAIL	FORCE (N)	REMARKS
CENTRE LOCK	✓		1404	
BOTTOM LOCK	✓		854.5	Bolt Snapped
TOP LOCK	✓		1475	
CENTRE HINGE	✓		360.9	
BOTTOM HINGE	✓		395.1	
TOP HINGE	✓		343.1	

Result:     PASS    

Remarks:     NIL    

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**AZUMA TESTING REPORT #AZT0299.14**  
**HINGED SECURITY SCREEN DOOR**

**CONCLUSION**

<u>Test</u>	<u>Result</u>
Dynamic Impact test:	PASS
Lock and Hinge lever test:	PASS

SIGNATORY NAME: Rob Irwin

SIGNATURE: 

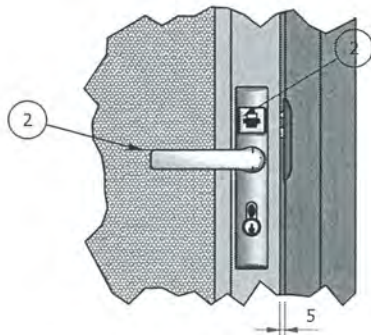
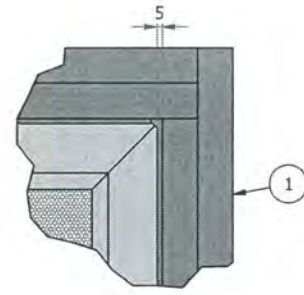
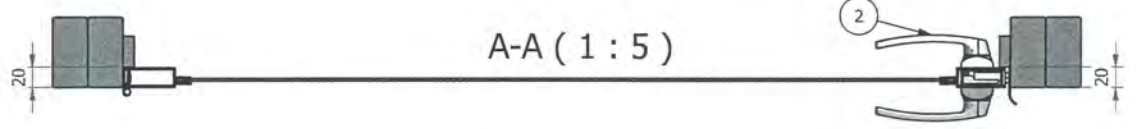
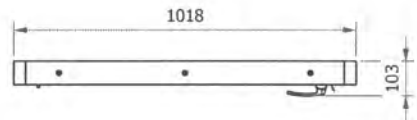
DATE: 21/10/14

**Azuma Design Pty Ltd**

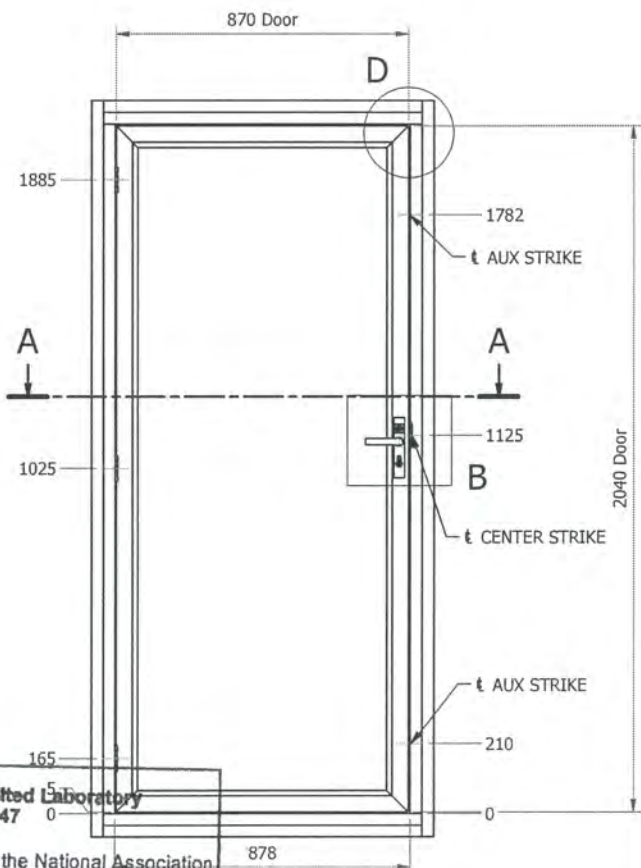
Address: 52 Justin Street, Smithfield NSW 2164 Australia PH: 61(02)9604 0255

IF IN DOUBT ASK 1

BILL OF MATERIALS			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	P10-000006	HINGED DOOR - TEST FRAME
2	1	P10-000003	PROTEC - HINGED DOOR



ISOMETRIC VIEW



FRONT VIEW 1 (1:15)



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Number: 15147

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**Prowler Proof**  
Gershwin Pty Ltd



**122 BUCHANAN RD**  
**BANYO, QLD. 4014**  
PH: +61 7 3363 0666  
FAX: +61 7 3267 5411

DRAWN SMH	DATE 31/07/2014	TITLE: <b>PROTEC HINGED DOOR - TESTING SAMPLE</b>		SHEET 1 OF 1
CHECKED	DATE	PART NUMBER: P10-000002		SCALE: SEE VIEW
APPR.	DATE	DRAWING DOCUMENT FILE NAME: P10-000002.idw	MODEL DOCUMENT FILE NAME: P10-000002.lam	REV: A
RAW MATERIAL	PROWLER PROOF STOCK CODE:			

REV. NO	DESCRIPTION	SMH	DATE	APP. BY	DATE
1	INITIAL RELEASE - PREVIOUS REVISIONS SUPERSEDED	SMH	6/8/14		
2	REVISION DESCRIPTION				

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UNLESS OTHERWISE SPECIFIED  
X = ±1mm  
X.X = ±0.5mm  
X.XX = ±0.25mm

MACHINE FINISHES = 3.2  
= ±1°

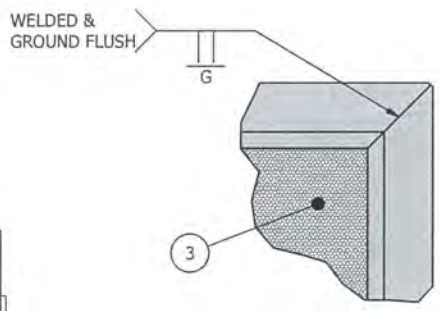
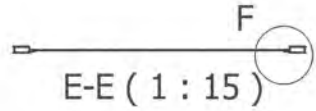
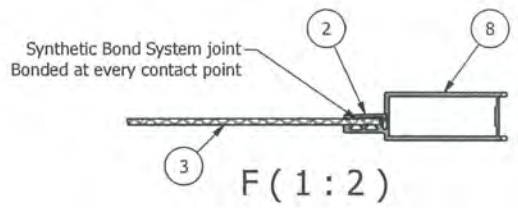
ALL DIMENSIONS IN MILLIMETERS  
ALL THREAD TO BE METRIC COARSE  
ALL WELDS TO AS1394  
ALL BURRS AND SHARP EDGES TO BE REMOVED

3RD ANGLE PROJECTION

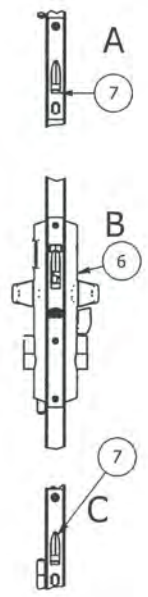
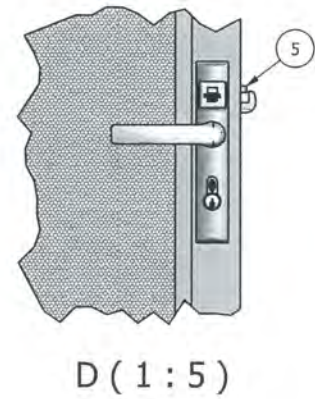
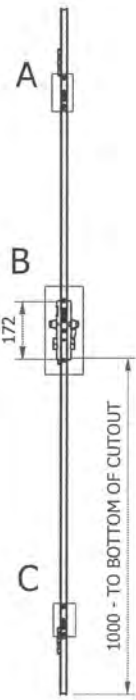
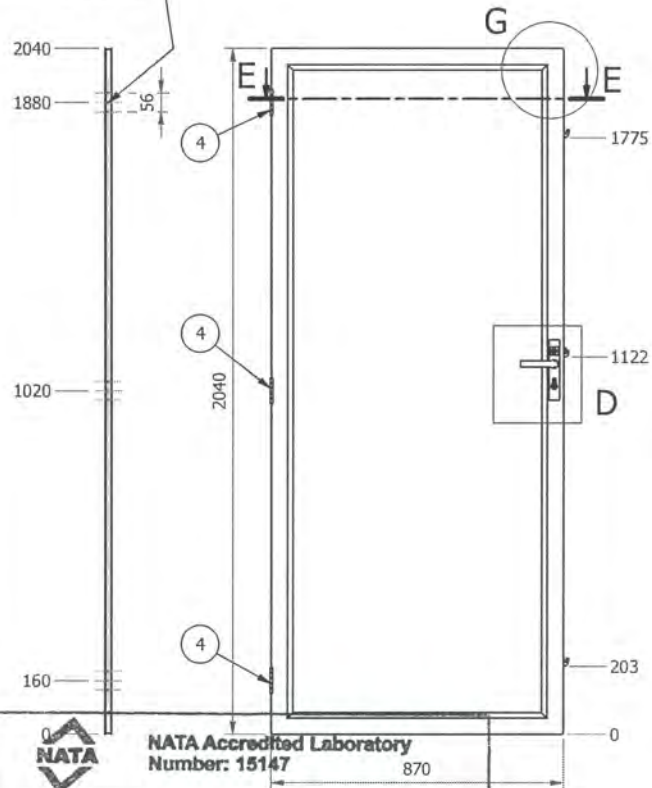
DO NOT SCALE DRAWING      WEIGHT: N/A      SHEET SIZE: A3

2 JOL

IF IN DOUBT ASK 1



3 Pilot holes for Hinges  
@ 3 places



ISOMETRIC VIEW



BILL OF MATERIALS			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	P10-000025	PTD 5800MM MF
2	1	P10-000029	PT RETAINER 3000MM BLK
3	1	P10-000024	PROTEC PERFORATED SHEET
4	3	Q40062	SECURITY HINGE - STEEL
5	1	102527	LOCKWOOD - 8654 LOCK BODY - BLACK
6	1	102526	LOCKWOOD - 8654 FURNITURE PACK - BLACK
7	1	102535	LOCKWOOD - 8654 AUXILIARY LOCK
8	1	P10-000026	PTD 5800MM MF
9	1	P10-000027	PTD 5800MM MF
10	1	P10-000028	PTD 5800MM MF
11	1	P10-000030	PT RETAINER 3000MM BLK
12	1	P10-000031	PT RETAINER 3000MM BLK
13	1	P10-000032	PT RETAINER 3000MM BLK
14	1	P10-000033	PT RETAINER 3000MM BLK
15	1	P10-000001	PT RETAINER 3000MM BLK

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NATA Accredited Laboratory  
Number: 15147

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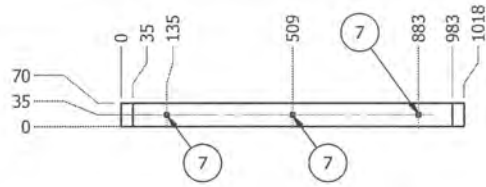
FRONT VIEW 1 (1:15)

<b>Prowler Proof</b> Gershwin Pty Ltd		DRAWN: SMH DATE: 31/07/2014	TITLE: <b>PROTEC - HINGED DOOR</b>	SHEET 1 OF 1
CHECKED: DATE		APPR.: DATE	PART NUMBER: P10-000003	DRAWING DOCUMENT FILE NAME: P10-000003.idw
RAW MATERIAL		PROWLER PROOF STOCK CODE:	MODEL DOCUMENT FILE NAME: P10-000003.lam	SCALE: SEE VIEW
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INITIAL RELEASE - PREVIOUS REVISIONS SUPERSEDED		SMH 6/8/14	DO NOT SCALE DRAWING	3RD ANGLE PROJECTION
REV. Checked by:	REVISION DESCRIPTION	DRAWN DATE APP. BY DATE	WEIGHT: N/A	SHEET SIZE: A3

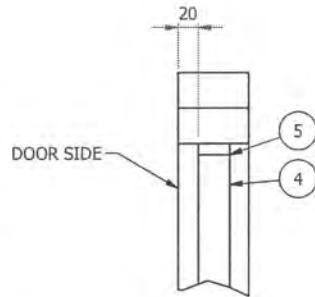
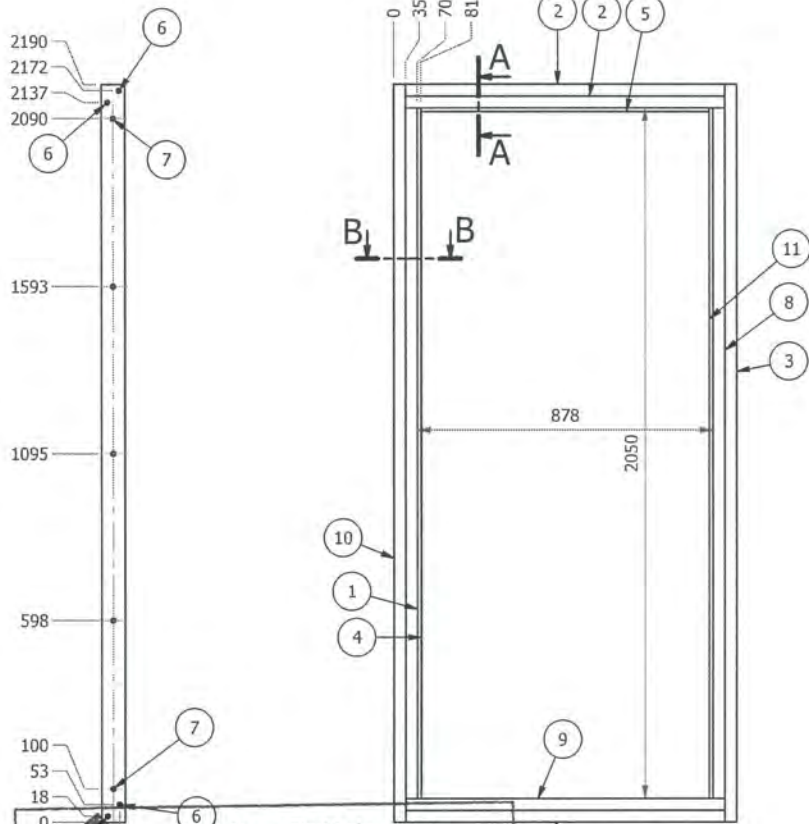
6808



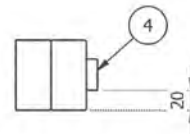
IF IN DOUBT ASK 1



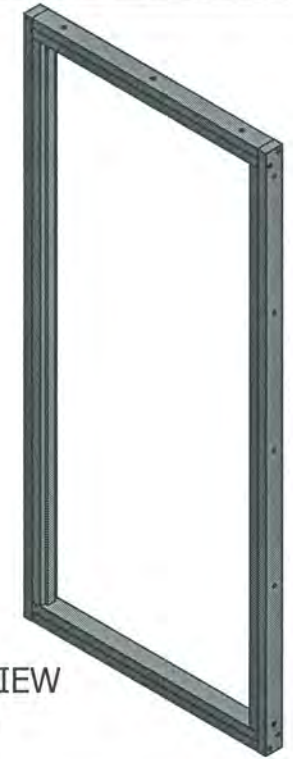
BILL OF MATERIALS			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	P10-000015	PINE STUD 70X35
2	2	P10-000017	PINE STUD 70X35
3	1	P10-000019	PINE STUD 70X35
4	1	P10-000021	PINE TRIM 33X11
5	1	P10-000023	PINE TRIM 33X11
6	8	N/A	BATTEN SCREWSx100mm
7	16	N/A	BATTEN SCREWSx50mm
8	1	P10-000016	PINE STUD 70X35
9	2	P10-000018	PINE STUD 70X35
10	1	P10-000020	PINE STUD 70X35
11	1	P10-000022	PINE TRIM 33X11



A (1 : 5)



B-B (1 : 5)



ISOMETRIC VIEW  
( 1 : 15 )

FRONT VIEW 1 ( 1 : 15 )

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		CHECKED	DATE	PART NUMBER: <b>P10-000006</b>		SCALE: SEE VIEW
122 BUCHANAN RD BANYO, QLD. 4014 PH: +61 7 3363 0666 FAX: +61 7 3267 5411		APPR.	DATE	DRAWING DOCUMENT FILE NAME: P10-000006.idw		REV: <b>A</b>
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UNLESS OTHERWISE SPECIFIED X = ±1mm X.X = ±0.5mm X.XX = ±0.25mm		MACHINE FINISHES = 3.2 = ±1°		ALL DIMENSIONS IN MILLIMETERS ALL THREAD TO BE METRIC COARSE ALL WELDS TO AS1554 ALL BURRS AND SHARP EDGES TO BE REMOVED		3RD ANGLE PROJECTION
DO NOT SCALE DRAWING		WEIGHT:		N/A		SHEET SIZE: <b>A3</b>

REV. No	REVISION DESCRIPTION	DRAWN	DATE	APP. BY	DATE
1	INITIAL RELEASE - PREVIOUS REVISIONS SUPERSEDED	SMH	6/8/14		

6006



# Laboratory Report

Date

14-October-2014

Customer

Prowler Proof

Test No :

AZT0304.14



NATA Accredited Laboratory No.: 15147

Azuma Design Pty Limited  
52 Justin street Smithfield. NSW 2164 Ph 02 9604 0255 E-Mail info@azumadesign.com.au

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# AZUMA DESIGN

## TESTING LABORATORY REPORT



SIGNATORIES

Reported by:	Robert Irwin <i>[Signature]</i>
Checked by:	Ashley Horne <i>[Signature]</i>

Date	14-Oct-14
Test No:	AZT0304.14

NATA Accredited Laboratory No.: 15147

Pass/ Fail requirements to AS 5041

Test data and results as shown.

Passed

Reason for test  
AS 5041 Conformance.

Knife shear testing

Manufacturer

Customer

Prowler Proof

Description of product

Perforated Mesh 645 x 645mm

Results

	Length of complete penetration (in mm)	New Blade used (Yes / No)
Test number 1	0	Yes
Test number 2	0	Yes
Test number 3	12.5	Yes

Observations

1. Knife snagged and held for 20 seconds.
2. On the second pass the knife snagged and the blade tip snapped. The snag was held for 20 seconds.
3. On the third pass the blade penetrated the mesh for 12.5mm then snag held for 20 seconds.

# AZUMA DESIGN

## TESTING LABORATORY REPORT

### Details of product for testing

#### Infill

<b>Material type and grade :</b>	Aluminium		
<b>Manufacturers</b>	<b>Name</b>	Prowler Proof	
	<b>Identi / Part number</b>	Protec Mesh	
<b>Attached dimensional drawing No:</b>		<b>Issue :</b>	
<b>Dimensions (in mm):</b>			
<b>Material thickness:</b>	1.6mm	<b>Spacing :</b>	1.7
		<b>Aperture:</b>	2.5
<b>Surface finish / coating :</b>	Powdercoat		

#### Means of securing to frame :

Mechanical Bolt	If means of securing is OTHER, submit full details on separate sheet attach to Final report
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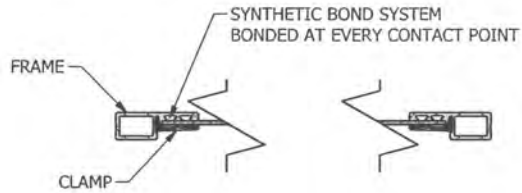
#### Weld details

Type of weld		Weld pattern	
--------------	--	--------------	--

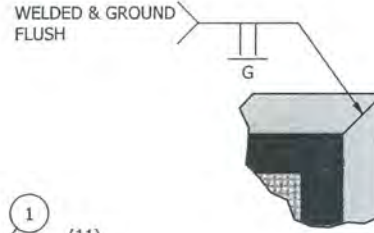
#### Fastener details

<b>Manufacturers</b>	<b>Name</b>	
	<b>Identification / Part number</b>	
<b>Material</b>		If material type is OTHER, submit full details on separate sheet and attach to final report
<b>Surface finish</b>		
<b>Length &amp; dia/Gauge</b>		
<b>Qty &amp; location</b>		
	Show details on attached sheet	

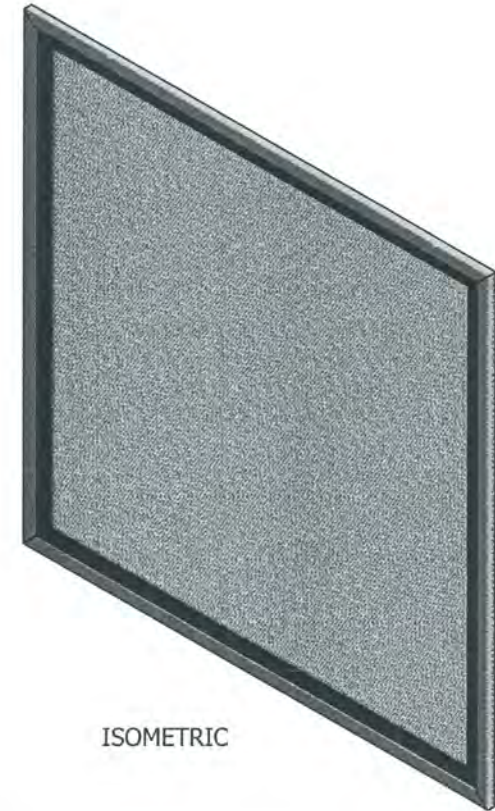
IF IN DOUBT ASK 1



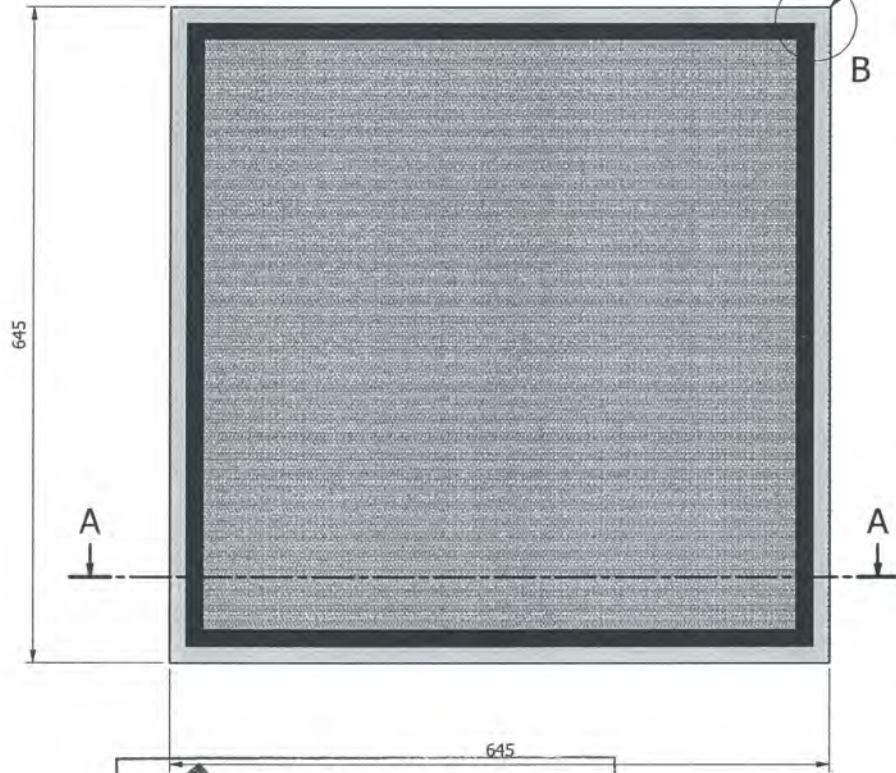
SECTION A-A  
(1:2)



DETAIL B  
(1:2)



ISOMETRIC



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Checked by:

<b>Prowler Proof</b> Gershwin Pty Ltd		DRAWN SMH	DATE 15/10/2014	TITLE: <b>KNIFE SHEAR TEST-PROTEC</b>		SHEET 1 OF 1
<b>122 BUCHANAN RD</b> <b>BANYO, QLD. 4014</b> PH: +61 7 3363 0666 FAX: +61 7 3267 5411		CHECKED	DATE	PART NUMBER: <b>P10-000103</b>		SCALE: SEE VIEW
RAW MATERIAL		APPR.	DATE	DRAWING DOCUMENT FILE NAME: P10-000103.dwg		REV: <b>A</b>
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DO NOT SCALE DRAWING		WEIGHT: 5 kg		3RD ANGLE PROJECTION		SHEET SIZE: A3

REV. No	REVISION DESCRIPTION	SMH	DATE	APP. BY	DATE
1	INITIAL RELEASE - PREVIOUS REVISIONS SUPERSEDED	SMH	15/10/14		
REVISION HISTORY					