A.C.N. 086 451 907

ASSA ABLOY AUSTRALIA
235 Huntingdale Rd
Oakleigh, VIC 3166

# TEST REPORT (6211)

## Security Window Grille

## FOR

## (Prowler Proof-Gershwin
## 122 Buchanan Rd
## Banyo
## QLD)

NATA
WORLD RECOGNISED ACCREDITATION

NATA Accredited Laboratory
Accreditation No.: 14812

This document is issued in accordance with NATA's accreditation requirements

Accredited for compliance with ISO/IEC 17025-Testing

**Date of Issue: 14/03/2019**

| Test Report<br>Security Window Grille | | | |
|---|---|---|---|
| **Test Report Number:** | 6211 | **PAM Number:** | |
| **Manufactured By:** | Prowler Proof | **Date of Submission:** | |
| **Tested By:** | D Gough | **Date:** | 6/2/2019 |
| **Certified By:** | C Korvin | **Date:** | 6/2/2019 |
| **Witnessed By:** | A How | **Date:** | 6/2/2019 |

## Details of Test Window

| | |
|---|---|
| **Type and Class:** | Movable Class B |
| **Make or Model:** | Hinge Window Security Screen with Protec aluminium security mesh |
| **Sample Number:** | P01-000263 |
| **Frame Size:** | 1640 x 1045 mm wide |
| **Framing Material:** | Pine |
| **Constructional Description of Test Security Window Grille:** | |
| An aluminium hinged security screen containing aluminium mesh infill, face fixed to frame | |

## Details of Test Window Infill

| | |
|---|---|
| **Type and Fabrication Method:** | Protec perforated sheet mechanically bonded to aluminium frame |
| **Manufacturer's Name / Part Number:** | Protec |

### Type 1 Mesh Infill (if applicable)

| | |
|---|---|
| **1) Number of Intersected Strands in a 150mm Circle:** | |
| **2) Breaking Force in Shear of One Strand (min 3kN):** | |
| **Multiplication of Above Points 1 and 2 (min 30kN):** | |

### Type 3 Mesh Infill (if applicable)

| | |
|---|---|
| **Material Type and Grade:** | Perforated aluminium sheet |
| **Mass per $m^2$ (kg):** | Not stated |
| **Knife Shear Test:** | Azuma Report AZTO304.14 NATA Lab No 15147 |

*(Above details supplied by customer not by testing authority)*

# Test Report
# Security Window Grille

## Dynamic Impact Test – AS 5039/5041-2003

| Security Window Grille<br><br>Dynamic Impact Test – AS 5039/5041-2003<br>Measurement Before Impact Test at Impact Point (datum reading): 10mm | | | |
|---|---|---|---|
| **Test** | **Remarks** | **Pass** | **Fail** |
| **Impact One:** | 10mm deformation | Y | |
| **Impact Two:** | 15mm deformation | Y | |
| **Impact Three:** | 16mm deformation | Y | |
| **Impact Four:** | 17mm deformation | Y | |
| **Impact Five:** | 18mm deformation | Y | |
| **150mm Diameter Probe** | NA | | |
| **Infill Type Probe test:** | Yes-<3mm passes | | |

## Jemmy Tests – AS 5039/5041-2003

| Location | Remarks | Pass | Fail |
|---|---|---|---|
| **Centre Locking Point:** | No access points could be created to apply the jemmy fixture. Passes by default | Y | |
| **Bottom Locking Point:** | As above | Y | |
| **Top Locking Point:** | As above | Y | |
| **Centre Hinge:** | As above | Y | |
| **Bottom Hinge** | As above | Y | |
| **Top Hinge:** | As above | Y | |

## Infill Pull Tests – AS 5039/5041-2003

| Location | A 450mm Maximum | B 150mm Maximum | C 100x100 mm Maximum | D | E | Pass | Fail |
|---|---|---|---|---|---|---|---|
| **Centre Grille (1.5kN):** | | | | | | | |
| **Horizontal, Locking Point (2.0kN) (Class B,C+D only):** | | | | | | | |
| **Top Corner, Lock Side (1.5kN @ 18°):** | | | | | | | |
| **Bottom Corner, Lock Side (1.5kN):** | | | | | | | |
| **Bottom Non-Locking Corner (1.5kN @ 45° + 18°):** | | | | | | | |

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

| | | | | |
|---|---|---|---|---|
| **150mm Spherical Probe Test (1.5kN):** | Pass | | Fail | |
| **Remarks:** | | | | |

**Overall Test** Passes the requirements of AS5039 and AS5041

**Remarks:**

The impact tests didn't gain any access.

Trying to attack the face fixing flanges, the preliminary jemmy points couldn't be created in order to use the jemmy fixture.

So passes by default.

This signature indicates that testing has been conducted in accordance to the current AS 5039-2003, and test results reflect the test findings.

Authorised Signature ..... Print Name/Title C. Korvin/ Lab Manager..... Date .....14/03/2019.....

**Identification Details for Security Window Grille**
**Submitted for Type Testing in Accordance to AS 5039/5041-2003**
(Informative)

## General

| | |
|---|---|
| **Model Number / Name:** | Hinge Security Window |
| **Sample Number:** | P01-000263 |
| **Manufactured By:** | Gershwin Pty Ltd trading as Prowler Proof |
| **Date of Submission:** | 06-02-2019 |
| **Description:** | An aluminium hinge window security screen containing perforated aluminium sheet. |

This information to be clearly marked on test window.

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 Extrusion | | |
| **Manufacturer's-** | **Name:** Capral | **Section Number:** | P01-000208 & P01-000209 |
| **Attached Dimensional Drawing-** | **Number:** P01-000208 & P01-000209 | **Issue:** | 1/1 |
| **Material Type and Grade:** | Aluminium 6060-T5 | | |
| **Surface Finish:** | Powder coated | | |
| **Mass per Metre Length (kg):** | 0.798kg/m | | |
| **Mounting Frame Material:** | Pinus Radiata | | |

(Attach drawings if necessary)

## Corner Stake

| | | | |
|---|---|---|---|
| **Type:** | None - Welded | | |
| **Manufacturer's-** | **Name:** Prowler Proof | **Section Number:** | N/A |
| **Attached Dimensional Drawing-** | **Number:** N/A | **Issue:** | N/A |
| **Material Type and Grade:** | N/A | | |
| **Surface Finish:** | N/A | | |

(If a corner stake is not used, describe the method of joining the frames)

### Fastener Details:

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Type:** | Welded | | | | | | | | | | |
| **Part Number:** | | | | | | | | | | | |
| **Material** | Alum | ✓ | St.Steel | | Monel | | Steel | | OTHER | | |
| **Surface Finish:** | Machined finish converted and coated to Qualicoat standards | | | | | | | | | | |
| **Length and Diameter:** | | | | | | | | | | | |

(Attach drawings if necessary)

**Mid Rail** (If applicable)

**Type:** N/A

**Manufacturer's-** **Name:** **Section Number:**

**Attached Dimensional Drawing-** **Number:** **Issue:**

**Material Type and Grade:**

**Mass per Meter Length (kg):**

**Surface Finish:**

| **Means of Securing to-** | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Frame:** | Weld | | Screw | | Rivet | | Other | |
| **Infill:** | Weld | | Screw | | Rivet | | Other | |

(If means of securing is OTHER, submit full details on a separate sheet)

**Weld Details:**

**Type of Weld and Pattern:**

**Fastener Details:**

**Type:**

**Part Number:**

| **Material** | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Alum | | St.Steel | | Monel | | Steel | | OTHER | |

**Surface Finish:**

**Length and Diameter:**

**Number Used and Location:**

(Attach drawings if necessary)

**Locks** (If applicable)

**Type:** (Description of mechanism including cylinder) Internal handle only, no cylinder, with Roto NT multipoint Euro locking and strikers.

(multi locking espagnolette)

**Manufacturer's-** **Name:** Roto **Part Number:** N/A

**Construction Material-** **Body:** Various metals **Striker:** Die Cast

**Number of Locking Points:** Various based on length of section

**Handle (furniture) Identification:** Flush handle

**Means of Mounting:** Screw fixing

**Mounting Location:** See drawing P01-000263 (attached)

**Infill**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Type and Fabrication Method:** | Protec® perforated aluminium sheet mechanically and chemically bonded | | | | | | |
| **Manufacturer's-** | **Name:** | Commandex | **Part Number:** | - | | | |
| **Attached Dimensional Drawing-** | **Number:** | N/A | **Issue:** | | | | |
| **Material Type and Grade:** | 1.7mm thick perforated aluminium sheet | | | | | | |
| **Surface Finish:** | Powder coat black | | | | | | |
| **Diameter of Type 3 Infill:** | 2.5mm diameter perforations, 1.7mm spacing | | | | | | |
| **Means of Securing:** | Weld | | Screw | | Rivet | | Other | |

(If means of securing is OTHER, submit full details on a separate sheet)

**Weld Details:**

**Type of Weld and Pattern:**

**Fastener Details:**

**Type:** **Part Number:**

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Material** | Alum | | St.Steel | | Monel | | Steel | | OTHER | ✓ |

**Surface Finish:**

**Length and Diameter:**

**Number Used and Location:** Indicate on figure 2

(Attach drawings if necessary)

**Hinges** (If applicable)

| | | | | | |
|---|---|---|---|---|---|
| **Type:** | Concealed hinges | | | **Number Fitted:** | N/A |
| **Manufacturer's-** | **Name:** | Roto | | **Part Number:** | Various |
| **Attached Dimensional Drawing-** | **Number:** | - | | **Issue:** | - |
| **Material Type and Grade-** | **Leaves:** | Galvanised folded steel | | **Pin:** | Solid |
| **Surface Finish:** | | | | | |
| **Means of Securing:** | Weld | | Screw | ✓ | Rivet | | Other | |

**Weld Details:**

**Type of Weld and Pattern:**

**Fastener Details:**

**Type:** Wurth raised CSK head drilling screw with AW **Part Number:** 020542 25

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Material** | Alum | | St.Steel | | Monel | | Steel | ✓ | OTHER | |

**Surface Finish:** Galvanised zinc

**Length and Diameter:** 3.5mm x 25mm

**Number Used and Location:** See attached drawing

(indicate on figure 1) (Attach drawings if necessary)

**Track or Build Outs** (If applicable)

**Type:** N/A

**Manufacturer's-** **Name:** **Part Number:**

**Attached Dimensional Drawing-** **Number:** **Issue:**

**Material Type and Grade:**

**Surface Finish:**

**Fastener Details:**

**Type:** **Part Number:**

**Material** Alum ☐ St.Steel ☐ Monel ☐ Steel ☐ OTHER ☐

**Surface Finish:**

**Length and Diameter:**

**Number Used and Location:**

(indicate on figure 1) (Attach drawings if necessary)

**Interlock** (If applicable)

**Type:** N/A

**Manufacturer's-** **Name:** **Part Number:**

**Attached Dimensional Drawing-** **Number:** **Issue:**

**Material Type and Grade:**

**Surface Finish:**

**Fastener Details:**

**Type:** **Part Number:**

**Material** Alum ☐ St.Steel ☐ Monel ☐ Steel ☐ OTHER ☐

**Surface Finish:**

**Length and Diameter:**

**Number Used and Location:**

(indicate on figure 1) (Attach drawings if necessary)

**Rollers** (If applicable)

**Type:** N/A

**Manufacturer's-** **Name:** **Part Number:**

**Attached Dimensional Drawing-** **Number:** **Issue:**

**Number Used and Location:**

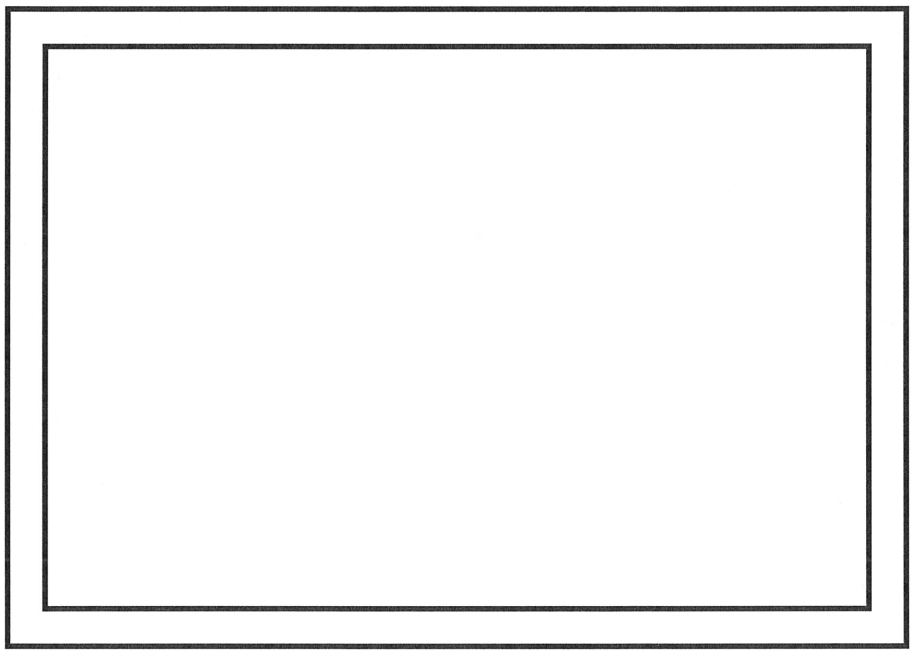
(indicate on figure 1) (Attach drawings if necessary)

| | |
|---|---|
| **Manufactured By:** | Prowler Proof |
| **Sample Number:** | PO1-000263 |

**Location of Fixing Points, Locking Points, Hinges and Mid-Rail.**

**All Dimensions in Millimetres.**

1500
See attached drawing



900

**Figure 1**

| | |
|---|---|
| **Manufactured By:** | Prowler Proof |
| **Sample Number:** | P01-000263 |

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

**All Dimensions in Millimetres.**

Fitted all around internal perimeter of frame

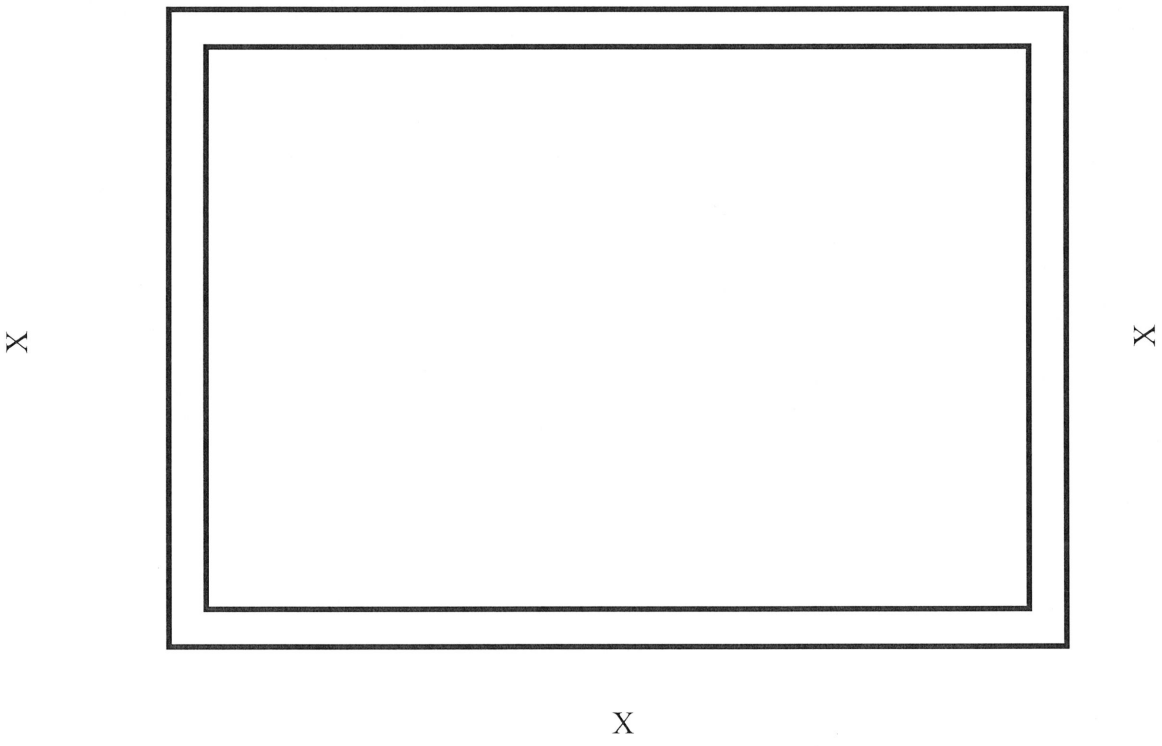



**Figure 2**

AZUMA
Design

# Laboratory Report

| | |
|---|---|
| Date | 14-October-2014 |
| Customer | Prowler Proof |
| Test No : | AZT0304.14 |

NATA
WORLD RECOGNISED ACCREDITATION

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

# AZUMA DESIGN

## TESTING LABORATORY REPORT

NATA
WORLD RECOGNISED ACCREDITATION

SIGNATORIES

Reported by: Robert Irwin

Checked by: Ashley Horne

Date: 14-Oct-14

Test No: AZT0304.14

NATA Accredited Laboratory No.: 15147

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**Test data and results as shown.**

Pass/ Fail requirements to AS 5041

**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 snaggled and held for 20 seconds.
2. On the second pass the knife snaggled and the blade tip snapped. The snag was held for 20 seconds.
3. On the third pass the blade penerated the mesh for 12.5mm then snag held for 20 seconds.

# AZUMA DESIGN

## TESTING LABORATORY REPORT

### Details of product for testing

**Infill**

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

**Means of securing to frame :**

Mechanical Bol — If means of securing is OTHER, submit full details on separate sheet attach to Final report

**Weld details**

Type of weld | Weld pattern

**Fastener details**

**Manufacturers**

Name

Identification / Part number

**Material**

If material type is OTHER, submit full details on separate sheet and attach to final report

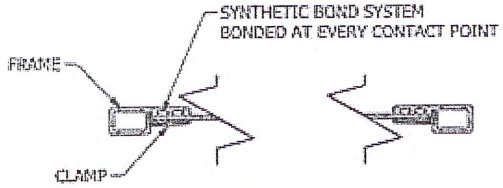
**Surface finish**

**Length & dia/Gauge**

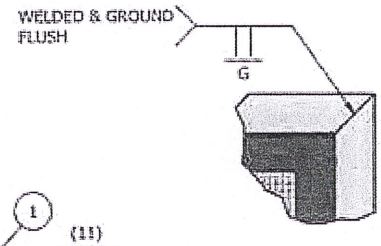
**Qty & location**

Show details on attached sheet

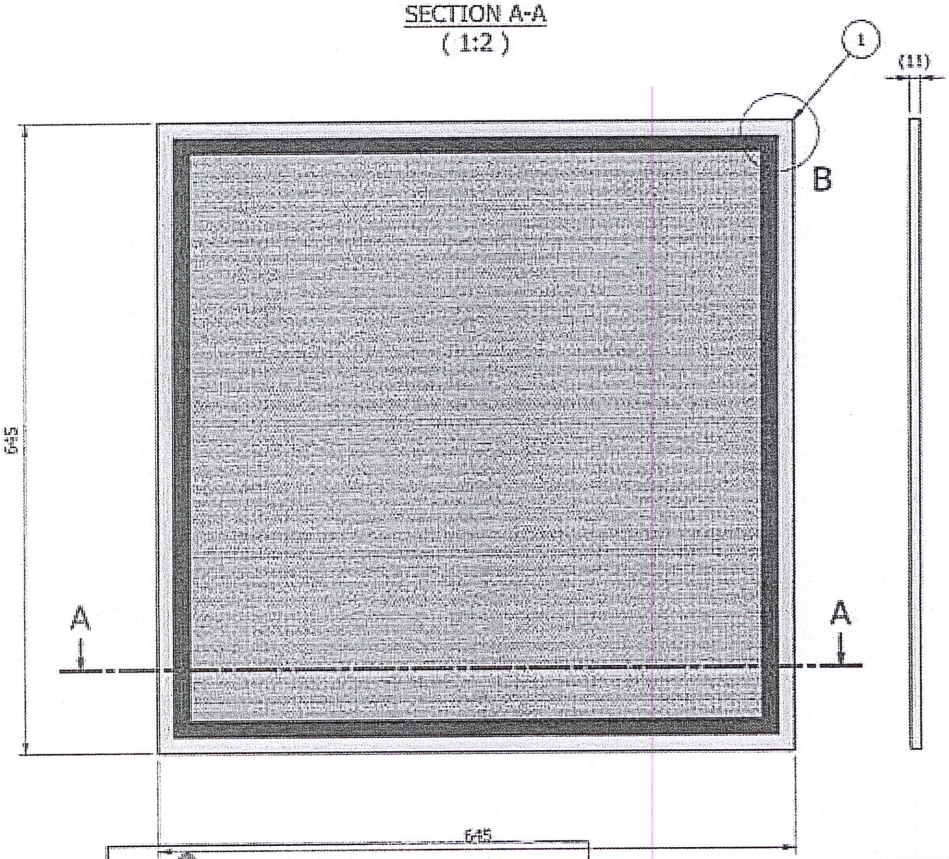
IF IN DOUBT ASK

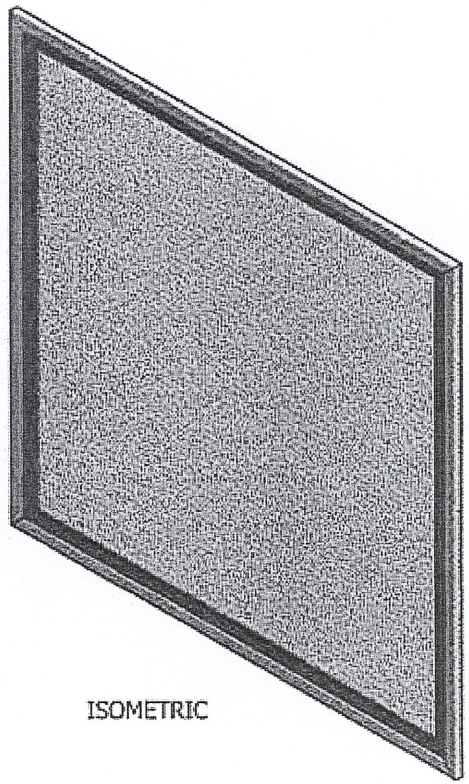



SECTION A-A
( 1:2 )




DETAIL B
(1:2)



ISOMETRIC

NATA Accredited Laboratory
Number: 15147

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Checked by:

| REV. No | REVISION DESCRIPTION | DRAWN | DATE | APP. BY | DATE |
|---|---|---|---|---|---|
| A | INITIAL RELEASE - PREVIOUS REVISIONS SUPERSEDED | SMH | 15/10/14 | | |

REVISION HISTORY

**Prowler Proof**
Gershwin Pty Ltd

PROWLER PROOF

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

| | | | |
|---|---|---|---|
| DRAWN: SMH | DATE: 15/10/2014 | TITLE: KNIFE SHEAR TEST-PROTEC | SHEET 1 OF 1 |
| CHECKED | DATE | | |
| APPR. | DATE | PART NUMBER: P10-000103 | SCALE: SEE VIEW |
| RAW MATERIAL | | PROWLER PROOF STOCK CODE: | REV: A |



UNLESS OTHERWISE SPECIFIED
X = ±1mm
X.X = ±0.5mm
X.XX = ±0.25mm
MACHINE FINISHES = 3.2
= ± 1°

ALL DIMENSIONS IN MILLIMETRES
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: 5 kg | SHEET SIZE: A3

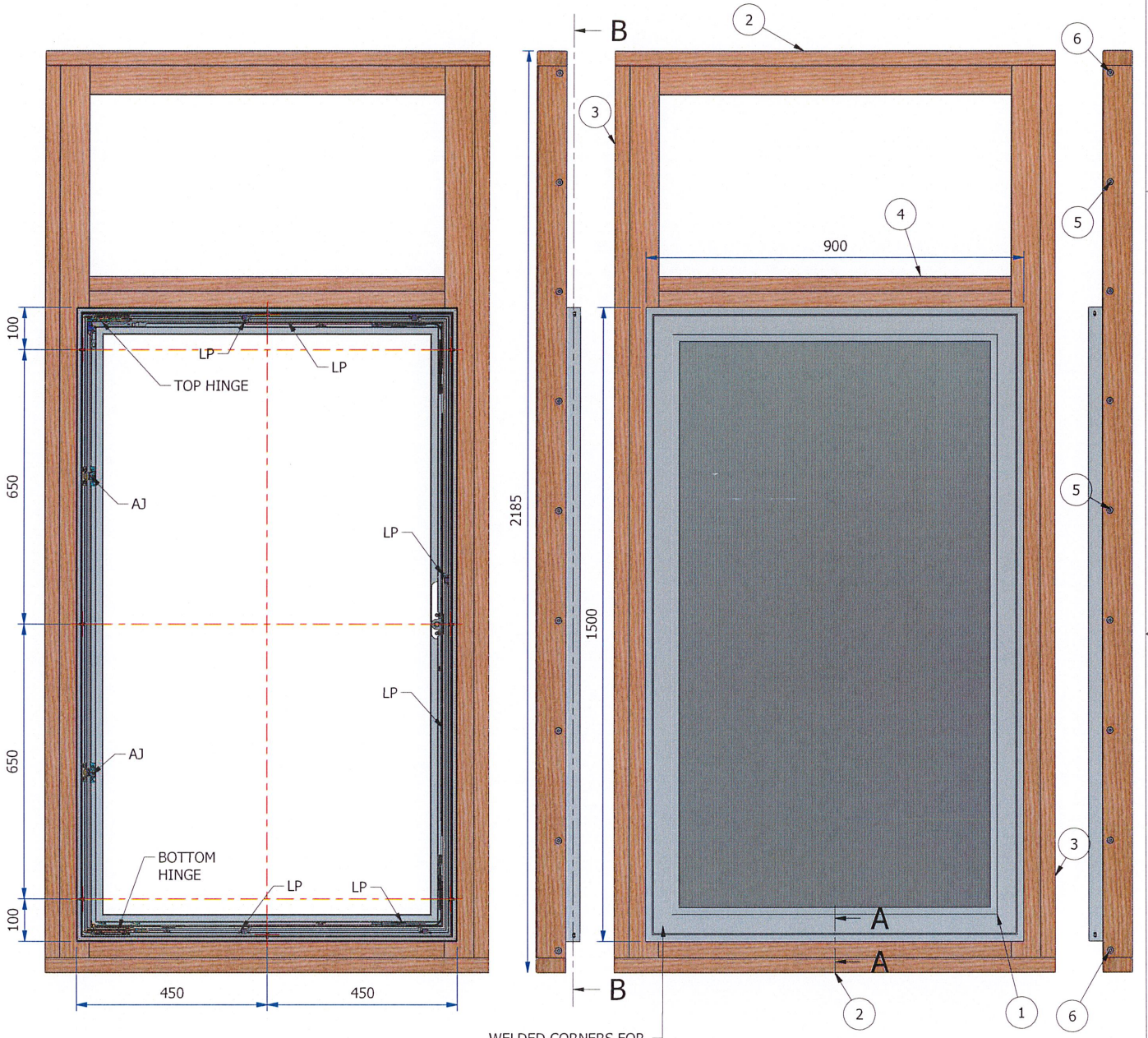
FILE NAME: P10-000103.dwg REV: A

IF IN DOUBT ASK

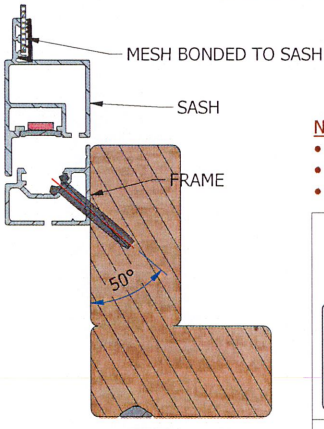
6211 14/3/19

BILL OF MATERIALS

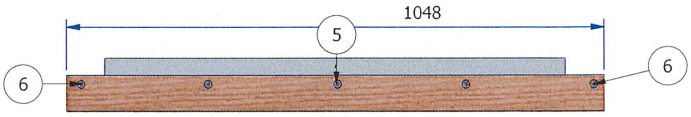
| ITEM | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | P01-000210 | HINGED WINDOW SYSTEM DESIGN | 1 |
| 2 | P01-000260 | TEST FRAME STRUCTURAL SUPPORT TOP/BOTTOM | 2 |
| 3 | P01-000259 | TEST FRAME STRUCTURAL SUPPORT SIDES | 2 |
| 4 | P01-000258 | TEST FRAME STRUCTURAL SUPPORT CENTRE | 1 |
| 5 | | Bugle Head Batten Screw 14gx50mm | 25 |
| 6 | | Bugle Head Batten Screw 14gx100mm | 10 |
| 7 | ANSI B18.6.5M - M5x0.8 x 35 - F - I | Cross Recessed Pan Head Tapping Screw - Type F - Type I - Metric | 8 |




SECTION B-B




SECTION A-A




NOTES:

- AJ = ANTI-JEMMY
- LP = LOCKING POINT
- FIXINGS POSITIONS REPRESENTED BY RED CENTRE LINES


**Prowler Proof**
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FAX: +61 7 3267 5411


| | | | |
|---|---|---|---|
| DRAWN A.HOW | DATE 18-Jan-19 | TITLE: HINGE WINDOW SYSTEM - PROTEC FACE FIX FRAME | SHEET 1 OF 1 |
| CHECKED | DATE | | |
| APPR. | DATE | PART NUMBER: P01-000263 | DRAWING DOCUMENT FILE NAME: P01-000263.idw; MODEL DOCUMENT FILE NAME: P01-000263.idw; SCALE: SEE VIEW |
| RAW MATERIAL | | PROWLER PROOF PROJECT CODE: | REV: B |



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: A3

FILE NAME:PP DRAWING.idw-Jan 2017