

**Cyclone Testing Station**  
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## TEST SUMMARY SHEET – TS1001

Reappraisal Date of Test Summary Sheet: 30 June 2019 (See Note 2 below)

Static and cyclic simulated wind load strength testing and cyclic simulated component testing was conducted on **10/100 Roll-A-Shutter**. The testing was performed with the use of new materials provided by **B & D Garage Doors Australia**.

### Description of Roller Shutter and Set-Up Tested

Product Name: 10/100 Roll-A-Shutter

Shutter Slat Details: Stated to be 1.0 mm BMT steel with height of 110 mm and cover height of 100 mm.

Slat Profile: Flat front face with adjacent slats interlocking to for continuous curtain.

Wind Locks: Fitted to every 2<sup>nd</sup> slat to both ends (wind lock spacing 210 mm). 70 × 15 mm steel plate with a 22 mm upturned lip 10 mm thick at the top and reducing to approximately 6 mm at the base of the lip. Fixed to slats with 5 off huck bolts per wind lock per slat.

Guides: 3.0 mm BMT steel formed into a channel that accommodates wind lock.

Guide Lugs: 50 × 20 mm “L” shaped bracket 50 mm wide and 5 mm thick.

Supports: 100 × 200 mm by 10 mm thick unequal angle mild steel beams. Note strength not being evaluated in this testing programme.

Installation: Guides bolted to supports using M10 bolts (grade 12.9) fitted through the guide lugs. Note the strength of these bolts was not being evaluated in this testing programme.

### Manufacturer's Details

Name of Manufacturer: B & D Garage Doors Australia

Address of Manufacturer: 34-36 Marigold Street, Revesby NSW 2212

### Report and Test Details

Report Details: Cyclone Testing Station Report No. TS1001, dated 15 April 2015

Report Title: Static and Cyclic Simulated Wind Load Strength Testing of 10/100 Roll-A-Shutter

Test Regimes: Static and Cyclic simulated wind load testing to *AS/NZS 4505:2012*

### Test Results (Note these are not design capacities, refer to *AS/NZS 4505:2012*)

Nominal Shutter Opening (mm)	Shutter Base Metal Thickness (mm)	Loading Direction	Static Pressure Held for 1 minute (kPa)	Cyclic Target Test Load
5000	1.0	Inward	11.69*	10.00 kPa
		Outward	8.25	N/A
1 slat nominally 300 mm	1.0	Outward at 8 degrees	N/A	28.5 kN

\*maximum capacity of test rig reached

### Conditions of Use

- Refer to Report No. TS1001, (contact B & D Garage Doors Australia) for full details of the Roller Shutter installation, test methods and results;
- These test results are based on legislation and standards that are current at the time of issue and may be subject to change. Therefore this Test Summary Sheet should be reappraised by the date noted.

Signed .....

Mr. S. J. Ingham  
Engineer

Date ..... 15/4/2015 .....

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Dr. D. Henderson  
Director

Authorised Signatory

..... 15/4/2015 .....