

**Cyclone Testing Station**  
College of Science and Engineering  
James Cook University  
Townsville Qld 4811 Australia

Telephone (07) 4781 4722  
Email: [jcu.cts@jcu.edu.au](mailto:jcu.cts@jcu.edu.au)  
[www.jcu.edu.au/cts](http://www.jcu.edu.au/cts)

## TEST SUMMARY SHEET – TS1001 Revision A (Original Issue 30/03/2021)

Expiry Date of Test Summary Sheet: 30 June 2029 (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**. The test regimes used in 2021 are identical to that currently specified in 2025 and all manufacturing processes, materials and components are stated to be in **B & D Garage Doors Australia** specification. All tests were NATA accredited.

### 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 200 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 × ¼” (6.35 mm diameter) Steel 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 Revision A, dated 30 March 2021  
Report Title: Static and Cyclic Simulated Wind Load Strength Testing of 10/100 Roll-A-Shutter  
Reappraised Test: Static and Cyclic testing to *AS/NZS 4505:2012 (incorporating Amendment No. 1)*  
Regimes: *Reconfirmed 2017 clauses A6.3.1 and A6.3.2*

### 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 Revision A, (contact B & D Garage Doors Australia) for full details of the Roller Shutter installation, test methods and results;
- These design capacities are based on legislation and standards that are still current at the time of re-issue, but will only be applicable if the products that being currently manufactured are identical with regards material properties, assembly, profile geometry etc, to those that were tested for the original test programme, as documented in the original report.

Signed .....

Mr. S. Ingham  
CTS Authorizing Signatory

Mr. R. Lowe  
Project Engineer

Date .....



Accredited Laboratory Number 14937  
Accredited for compliance with ISO/IEC 17025 - Testing