



Cyclone Testing Station
School of Engineering and Physical Sciences
James Cook University
Townsville Qld 4811 Australia

Telephone (07) 4781 4722
Facsimile (07) 4781 6788
Email: jcu.cts@jcu.edu.au
www.jcu.edu.au/cts

TEST SUMMARY SHEET – TS915

Reappraisal Date of Test Summary Sheet: 31 December 2017 (See Note 2 below)

Simulated wind driven debris impact testing was conducted on Roll-A-Shutter Door Assemblies. The testing was performed with the use of new materials provided by B & D Australia Pty Ltd.

Description of Roller Shutter and Set-Up Tested

Product Name: Roll-A-Shutter Door Assemblies
Roller Shutter Assembly: Door curtain formed by interlocking slats supported in guide tracks with wind locks
Roller Shutter slat Dimensions: 1.2 mm BMT, G300 steel with an overall height of 110 mm and a cover height of 100 mm
Roller Shutter Wind Locks: Cast steel 50 mm wide and 40 mm long with upturned lip 15 mm high and 7 mm thick with a recessed segment on the inside of the lip creating a ‘beak’ profile.
Roller Shutter Guide Track: 85 × 50 × 3.0 mm steel ‘C’ channel with 40 × 12 mm flat steel bar plug welded at 250 mm spacing to the inner face of the channel.
Roller Shutter Guide Lugs: 5 mm thick 48 × 20 mm “angle” cross section lugs welded at 250 mm centres

Manufacturer’s Details

Name of Manufacturer: B & D Australia Pty Ltd
Address of Manufacturer: 34-36 Marigold Street, Revesby, NSW 2212

Report and Test Details

Report Details: Cyclone Testing Station Report No. TS915, dated 11 October 2013
Report Title: Simulated Windborne Debris Impact Testing of Roll-A-Shutter Door Assemblies
Test Regime: Impact Testing to AS/NZS 1170.2:2011 in accordance with AS/NZS 4505:2012

Test Results

Impact Location	Measured Impact Velocity (m/s)	Results and Observations
In corner of door on interface between two slats	>36	Pass: slats permanently deformed at impacted site. One clip disengaged from guide but remained in the guide leaving small opening at end of adjacent slats.
Midspan of door curtain, on one slat	>36	Pass: permanent deformation of several slats. No penetration or separation of slats.
Nominal centre of curtain height, within 300 mm from edge on one slat	>36	Pass: slats permanently deformed at impacted site. One clip disengaged from guide but remained in the guide leaving small opening at end of adjacent slats.
Grouped near midheight of door	40.3, 40.3, 35.9, 40.9, 42.0	Pass: small indentations no penetrations

Conditions of Use

1. Refer to Report No. TS915, (contact B & D Australia) for full details of the Roller Shutter installation, test methods and results;
2. 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 11/10/13

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Mr. C. J. Leitch
Senior Consulting Engineer
11/10/2013