TEST SUMMARY SHEET – TS915
Expiry Date of Test Summary Sheet: 31 December 2022 (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 x 50 x 3.0 mm steel ‘C’ channel with 40 x 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 x 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 Title: Simulated Windborne Debris Impact Testing of Roll-A-Shutter Door Assemblies
Appraised Test Regimes: Impact testing to AS/NZS 4505:2012 Appendix B

<table>
<thead>
<tr>
<th>Impact Location</th>
<th>Measured Impact Velocity (m/s)</th>
<th>Results and Observations</th>
</tr>
</thead>
<tbody>
<tr>
<td>In corner of door on interface between two slats</td>
<td>&gt;36</td>
<td>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.</td>
</tr>
<tr>
<td>Midspan of door curtain, on one slat</td>
<td>&gt;36</td>
<td>Pass: permanent deformation of several slats. No penetration or separation of slats.</td>
</tr>
<tr>
<td>Nominal centre of curtain height, within 300 mm from edge on one slat</td>
<td>&gt;36</td>
<td>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.</td>
</tr>
</tbody>
</table>

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 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
Senior Engineer
Date 15.11.2018

Prof. J. Ginger
Research Director
Date 15.11.2018