Certificate of Test

No. 2067

This is to certify that the element of construction described below was tested by the CSIRO Division of Materials Science and Engineering in accordance with Australian Standard 1530, Methods for fire tests on building materials, components and structures, Part 4-2005 on behalf of:

Able Door Services Pty Ltd
107 Long Street
SMITHFIELD NSW

A full description of the test specimen and the complete test results are detailed in the Division's sponsored investigation report numbered FSV 1298.

Product Name: Able Door Services Roller Shutter Assembly

Description: The roller shutter curtain comprised interlocking, galvanised, steel roll-formed horizontal slats. The curtain slats were nominally 2390-mm long x 100-mm wide x 0.9-mm thick and had 5-mm thick cast steel end-clips, fixed with four 6.35-mm x 14-mm long steel rivets to each end of every alternate slat. The curtain overlapped the opening in the brick wall by nominally 75-mm on each side.
The bottom rail of the curtain consisted of two 65-mm x 65-mm x 5-mm Galvabond steel angles welded back to back and fixed through the bottom slat using 6.35-mm x 14-mm long steel rivets at nominal 200-mm centres.
The roller drum assembly consisted a black steel tube 168.3-mm O.D. with a wall thickness of 4.8-mm incorporating a CS1020 steel solid axle, 34.92-mm in diameter supported at each end (measured distance of approximately 2760-mm) by a barrel bracket without being restrained in any way The steel drum assembly consisted of springs, cogs and brackets. The axle was supported on top of the 300-mm x 300-mm x 10-mm thick mild steel drum brackets mounted to 600-mm long 65-mm x 65-mm x 8-mm structural angles that were fixed to the masonry wall with five 12-mm diameter x 100-mm long masonry anchors. The centre line of the axle was mounted 300-mm above the opening in the masonry wall.

The element of construction described above satisfied the following criteria for fire-resistance for the period stated

Structural Adequacy	-	not applicable
Integrity	-	no failure at 241 minutes
Insulation	-	2 minutes
Radiation at 365-mm	-	24 minutes

and therefore for the purpose of Building Regulations in Australia, achieved a fire-resistance level (FRL) of -/240/0
The FRL is applicable for exposure to fire from either direction.

This certificate is provided for general information only and does not comply with the regulatory requirements for evidence of compliance.

Testing Officer: Chris Wojcik Date of Test: 30 October 2007.
Issued on the 7th day of March 2008 without alterations or additions.

Garry E Collins
Manager, Fire Testing and Assessments

NATA

This laboratory is accredited (Accreditation No.165, Corporate Site No. 3625) by the National Association of Testing Authorities, Australia. The tests reported herein have been performed in accordance with its terms of accreditation.

CSIRO

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