



Certificate of Test

No. 2563

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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:

Firecore Pty Limited
 291 Warringah Road
 BEACON HILL NSW

A full description of the test specimen and the complete test results are detailed in the Division's Sponsored Investigation report numbered FSV 1642.

Product Name: Firecore TVC40 Core single leaf Pyroex HPL Laminate faced doorset.

Description: The specimen comprised a single-leaf, side-hung doorset fitted into a steel frame mounted into a 230-mm thick masonry wall. The door leaf measured nominally 2100-mm high x 900-mm wide x 49-mm thick, comprised internally a nominally 39-mm thick TVC40-core panel faced on both sides with a nominally 3.6-mm thick untreated plywood bonded to the core with PVA adhesive. The door leaf was then faced on both sides with 1.0-mm thick Laminate Door Shield, also known as Pyroex HPL Laminate, Duropal HPL Laminate, Decorative HPL Laminate and Lamco HPL Laminate. The external facing was bonded to the plywood with contact adhesive.

The core was reinforced at hardware fixing points with 0.6-mm perforated steel channel reinforcing plates, however at the lockset position, 0.6-mm thick perforated aluminium channel reinforcing plate was used. Additional steel strips, 300-mm x 28-mm x 1.2-mm thick were fitted between the hinge reinforcing channels and the core edge. Timber edge strips nominally 10-mm thick, were glued to perimeter edges of the core leaf with contact adhesive.

The door frame was fabricated from 1.4-mm thick zincanneal steel. The frame section had double 50-mm x 25-mm rebates, a 38-mm architrave and a 112-mm opening for brickwork. The door frame was prepared with three 100-mm x 75-mm x 2.5-mm loose pin zincanneal steel bolt hinges which were slotted through the architrave face and welded to the back of the frame behind the door seat rebate. The door frame had an overall reveal height of 2110-mm and a reveal width of 904-mm.

Details of construction are shown in drawings numbered FC8883/1, FC8883/2, FC8883/3 and FC8883/4, all dated 29 April 2014, by Firecore Pty Ltd.

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

Structural Adequacy	not applicable
Integrity	69 minutes
Insulation	70 minutes
Radiant Heat Flux at 365-mm	no failure at 241 minutes

and therefore for the purpose of Building Regulations in Australia, achieved a fire-resistance level (FRL) of -/60/60. The FRL is applicable for exposure to fire from the same direction as tested.

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

Testing Officer: Chris Wojcik Date of Test: 29 April 2014

Issued on the 14th day of August 2014 without alterations or additions.

Brett Roddy
 Manager, Fire Testing and Assessments

	<p>This document is issued in accordance with NATA's accreditation requirements. Accreditation No. 165 – Corporate Site No. 3625 Accredited for compliance with ISO/IEC 17025</p>
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