INFRASTRUCTURE TECHNOLOGIES
www.csiro.au

14 Julius Avenue, North Ryde NSW 2113
PO Box 310, North Ryde NSW 1670, Australia
**T** (02) 9490 5444 • **ABN** 41 687 119 230

# Certificate of Test

No. 2639


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:

Brickworks Building Products Pty Ltd
738-780 Wallgrove Road
HORSLEY PARK NSW

A full description of the test specimen and the complete test results are detailed in the Division's Sponsored Investigation report numbered FSV 1677.

Product Name: Non-loadbearing Pronto Panel wall system incorporating an offset plasterboard lined framed wall.

Description: The specimen comprised a non-loadbearing Pronto Panel wall system in conjunction with a plasterboard lined framed wall. The overall dimensions of the wall assembly were 3000-mm high x 3000-mm wide x 185-mm thick, the wall was mounted into a 3000-mm x 3000-mm double brick wall opening.
The panel wall was built using four full Pronto Panels, nominally 2980-mm high x 610-mm wide x 60-mm thick and one panel cut down to a 560-mm width to facilitate the width of the opening.
The panels consisted of a matrix of lightweight aggregate of polystyrene and saw dust in a cementitious mixture of Portland Cement, fly ash and polymers to assist with adhesion. The panels were sheeted with 4-mm thick calcium silicate boards adhered to the core with a polymer adhesive. The panels were unreinforced and had a stated density of 840 kg/m$^3$.
The vertically laid panels were restrained along the top and bottom using 75-mm x 50-mm x 1.15-mm BMT slotted steel angles. The angles were fixed to the top and bottom of the brick opening using 50-mm long x 6.5-mm diameter metal sheathed masonry anchors at nominal 600-mm centres. The panels were fixed to the steel angles from the exposed side only, using two 60-mm long 14-10 gauge screws per panel at 300-mm nominal centres.
The panels incorporated tongue and groove butt joints, and were joined together with Pronto Adhesive Compound. A 20-mm wide expansion gap was left along the head of the panel wall sealed from the unexposed side with Bostik Fireban One polyurethane sealant to a nominal depth of 10-mm.
The unexposed face of the panel wall was then vertically lined with full length 13-mm thick standard grade plasterboard.
An independent plasterboard lined framed wall system was constructed 35-mm from the exposed side of the panel wall. The steel frame consisted of 64-mm Rondo top and bottom tracks and studs, set out at 600-mm centres. The two tracks were fixed to the brick opening using masonry anchors at nominally 600-mm centres. The resulting cavity between the panel wall and stud wall was filled with 75-mm thick, 25 kg/m$^3$ Autex insulation.
The steel stud frame was then vertically lined with full length 13-mm thick standard grade plasterboard. The plasterboard joints on both sides of the wall system, were sealed with plasterboard joint compound.
Details of construction is shown in drawings PR 010-PR 012, all dated 12 January 2015, by Brickworks Building Products.

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

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|---|---|
| Structural Adequacy | not applicable |
| Integrity | no failure at 135 minutes |
| Insulation | 131 minutes |

and therefore for the purpose of Building Regulations in Australia, achieved a fire-resistance level (FRL) of -/120/120. The FRL is applicable for exposure to fire from either direction.
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: 9 January 2015
Issued on the 3rd day of March 2015 without alterations or additions.

B. Roddy

Brett Roddy
Manager, Fire Testing and Assessments