

# Certificate of Test

No. 2182

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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 ASTM E119-2008a, Standard Test Methods for Fire Tests of Building Construction and Materials on behalf of:

L & A Manufacturing Pty Ltd  
23-25 Wentworth Street  
GREENACRE NSW 2190

A full description of the test specimen and the complete test results are detailed in the Division's sponsored investigation report numbered FSV 1374.

Product Name: Non-loadbearing Vermitex TH sprayed partition system.

Description: The specimen comprised Trimesh wall panels sprayed with Vermitex TH cementitious compound to form a non-loadbearing wall with overall nominal dimensions of 3020-mm high x 3000-mm wide x 90-mm (average) thick. Specimen construction comprised a steel perimeter track section bolted to the top, bottom and one vertical side of the specimen containing frame using M12 bolts at 600-mm centres. The steel perimeter track used on the remaining vertical edge of the specimen was fixed to the top and bottom track only. A 75-mm wide x 10-mm thick strip of Insufoam was inserted within the steel bottom perimeter track section. Hilti CP611A fire rated mastic was used to provide a seal between the steel perimeter frame and the specimen containing frame on two vertical sides and the bottom. The top perimeter track incorporated five vertical M12 threaded rods 1800-mm long located at nominally 600-mm centres extending to nominally 300-mm above the bottom perimeter track. The wall panel system incorporated Trimesh R200 wall panels measuring 1200-mm wide x 2280-mm long x 50-mm thick. These Trimesh panels incorporated a layer of aluminium foil fixed to one face of the panel using speed clips at 300-mm and 400-mm centres. The Trimesh R200 wall panels were installed inside the steel perimeter frame and incorporated the vertical M12 threaded rods located within the panels. The M12 threaded rods were wire tied to the Trimesh panels on the side opposite to the aluminium foil backing. All butt joints between the Trimesh panels of the wall system were reinforced using 300-mm wide RG1 lapping strip installed centrally over the joint and wire tied to the Trimesh panels using 1.25-mm diameter tie wire at 300-mm centres. The Vermitex TH cementitious based spray compound was spray applied directly to the foil backing of the Trimesh R200 wall panels. Construction is detailed in drawings numbered 001 and 004 by L & A Fazzini Manufacturing Pty Ltd.

The element of construction described above satisfied the following criteria for fire-endurance for the period stated when subjected to the RWS heating curve.

Loadbearing capacity	-	not applicable
Integrity	-	93 minutes
Insulation	-	No failure at 120 minutes

Testing Officer: Chris Wojcik Date of Test: 13 October 2009

Issued on the 13<sup>th</sup> day of November 2009 without alterations or additions.



Garry E Collins  
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