INFRASTRUCTURE TECHNOLOGIES

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Certificate of Test

No. 2667

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

AFS Products Group Pty Ltd 22-24 Sommerville Circuit Fmu Plains NSW

A full description of the test specimen and the complete test results are detailed in the Division's Sponsored Investigation report numbered FSV 1704.

Product Name: Load-bearing 150-mm thick AFS 150 Rediwall Panel structural wall system.

Description:

The specimen comprised a reinforced concrete wall system 3000-mm high x 3000-mm wide x 150-mm thick made up of

twelve pre-fabricated permanent formwork panels core-filled with concrete after assembly.

The pre-fabricated permanent formwork system comprised 250-mm wide x 3000-mm high x 150-mm thick AFS 150 Rediwall panels. The extruded PVC panels comprised 2.5-mm thick perforated internal webs spaced at nominally 80-mm centres, as shown in drawing numbered AFS-DT-345, dated 8 April 2015, by AFS Systems Pty Ltd. The panels

interconnected vertically by integrated sliding male to female connectors to form a hollow panel wall. The ends of the

wall were finished with solid End Caps, while the bottom consisted of a perforated Floor Track.

The wall was reinforced with N12 reinforcing bars at 350-mm centres vertically and 400-mm centres horizontally. The panels were appropriately braced and 32 Mpa, 120-mm slump concrete mix was pumped in through the top openings and trowelled off along the top, when completely filled.

A total load of 700 kN was applied to the specimen for the duration of the test. The load requested by the client, was

applied uniformly along the top of the wall.

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

Structural Adequacy no failure at 241 minutes no failure at 241 minutes no failure at 241 minutes no failure at 241 minutes

and therefore for the purpose of Building Regulations in Australia, achieved a fire-resistance level (FRL) of 240/240/240. 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: 17 July 2015

Issued on the 7th day of August 2015 without alterations or additions.

Brett Roddy

Manager, Fire Testing and Assessments



B. Rosey

NATA Accredited Laboratory Number: 165 Corporate Site No 3625 Accredited for compliance with ISO/IEC 17025