Certificate of Test

No. 2363A

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

Loxo Cladding Systems Pty Ltd
1331Stud Road
ROWVILLE VIC

A full description of the test specimen and the complete test results are detailed in the Division's sponsored investigation report numbered FSV 1525A.

PRODUCT NAME — 172-mm thick, Load-bearing Loxo Autoclaved Lightweight Aerated Concrete (AAC) panel wall system.

DESCRIPTION: The specimen comprised a load-bearing wall system, nominally 3000-mm high x 3000-mm wide x 172-mm thick. The wall system comprised of a timber stud frame lined on the unexposed face with 10-mm thick plasterboard, and on the exposed face with Loxo AAC panels. The wall's timber frame comprised 70-mm x 35-mm MGP10 structural radiata pine studs and noggins. The studs were set out at 450-mm centres with the noggins set out at 1000-mm from the top and bottom of the frame. The unexposed face of the timber frame was lined with 10-mm thick standard grade plasterboard. The plasterboard sheets, laid horizontally, were screw fixed to the timber frame using plasterboard screws at approximate 600-mm centres. All the joints and perimeter were taped and set with a base and top coat. The exposed face of the timber frame was lined with Loxo AAC Panels, nominally 2200-mm long x 600-mm wide x 50-mm thick, laid horizontally in a stretch bond pattern. The panels were screw fixed to 42-mm thick by 35-mm wide H3 Treated Pine Timber battens, installed along studs, using 75-mm long Bugle screws, at approximate 500-mm centres and 50-mm from panel horizontal joints, as shown in drawing numbered FT0112011, dated November 2011, by Loxo Cladding Systems. Loxo AAC Panels comprised autoclaved aerated concrete with an overall stated density of 560 kg/m3, reinforced with 3.2-mm diameter corrosion protected steel, as shown in drawing numbered NAJ120213001, dated 13 February 2012. The panel's butt joints were bonded together using a polymer modified cement-based adhesive (Loxo AAC adhesive).

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

Structural adequacy	-	no failure at 121 minutes
Integrity	-	no failure at 121 minutes
Insulation	-	117 minutes

and therefore for the purpose of Building Regulations in Australia, achieved a fire-resistance level (FRL) of 120/120/90. The FRL is applicable for exposure to fire from the same side as tested.

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: 27 January 2012

Issued on the 27th day of April 2012 without alterations or additions. This Certificate supersedes Certificate of Test 2363 issued on 15th day of February 2012.

Garry E Collins
Manager, Fire Testing and Assessments

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This document is issued in accordance with NATA's accreditation requirements