INFRASTRUCTURE TECHNOLOGIES
www.csiro.au

14 Julius Avenue, North Ryde NSW 2113
PO Box 52, North Ryde NSW 1670, Australia
T (02) 9490 5444 • **ABN** 41 687 119 230

Certificate of Test

No. 3255

This is to certify that the element of construction described below was tested by CSIRO Infrastructure Technologies in accordance with Australian Standard 1530, Methods for fire tests on building materials, components and structures, Part 4 Fire-resistance tests of elements of construction, 2014 (Section 7: Doorsets and shutter assemblies), on behalf of:

ASI JD MacDonald Pty Ltd
48 Smith Road
Springvale Victoria 3171

A full description of the test specimen and the complete test results are detailed in the Division's report numbered FSP 2001.

Product Name: A garbage door chute assembly mounted into a 98-mm thick shaft wall

Description: The specimen comprised a garbage chute door assembly incorporating a cut down section of the plastic chute intake segment, fitted into a 478-mm high by 478-mm wide opening in a nominal 98-mm thick shaft wall system. The wall system is described as a 98-mm thick steel framed shaft wall comprising two layers of 16-mm thick Gyprock Fyrchek plasterboard on the unexposed side and 1 layer of Gyprock Shaft liner panel on the exposed side inside 64-mm deep metal studs. Refer CSR 971 shaft wall system with an established FRL of -/120/120. The metal door frame was fabricated using 1.95-mm thick Galvabond steel and had overall external dimensions of 448.95-mm high x 439.60-mm wide with a total frame depth of 222.4-mm. The two door frame sections were connected to form a single frame. The annual gap around the frame and wall opening on unexposed side incorporated a Thermotec polyurethane foam backing rod and void filled with Trafalgar Fyreflex Fire Rated Sealant. The door leaf measured nom. 433.8-mm high x 432.8-mm wide x 35.25-mm thick and consisted of SkamoDoor Board 250 (calcium silicate board having a bulk density of 250 kg/m^3) measuring 424-mm wide x 424-mm high x 30-mm thick. The door cover (front door skin) comprised stainless steel grade 304 (0.9-mm thick), the door inside (back door skin) being Zincalume (1.2-mm thick). That door had a galvanised steel intake tray attached. A Galvabond steel baffle door, 1.2-mm thick was attached to the door frame. The door trim was fabricated using stainless steel 304 grade sheets (0.9-mm thick). A small section of the plastic chute was cut down in order for the specimen to fit into the furnace chamber. The chute material comprised Linear Low Density Polyethylene (LLDPE) plastic (5-8mm thick). The following items of hardware were fitted to the assembly: An Edmonds EZ5000 Series cylindrical lock, a Decatur DSC002 door strut, Lorient LAS1602BB Intumescent fire and smoke seals and Windeyer Continuous Hinges. Specimen was tested with door opening out from top away from the furnace.

Performance observed in respect of the following AS 1530.4-2014 criteria:

Structural Adequacy	-	not applicable
Integrity	-	no failure at 121 minutes
Insulation	-	31 minutes
Radiant heat flux at 365-mm from door leaf	-	no failure at 121 minutes

and therefore for the purpose of Building Regulations in Australia, achieved a fire-resistance level (FRL) of -/120/30.

The fire-resistance level (FRL) of the door is applicable when the door is exposed to fire from the same side as tested. The FRL is limited to that of the separating element. For the purposes of AS 1530.4-2014 the results of these fire tests may be used to directly assess fire hazard, but it should be noted that a single test method will not provide a full assessment of fire hazard under all fire conditions. This certificate is provided for general information only and does not comply with regulatory requirements for evidence of compliance.

Testing Officer: Peter Gordon Date of Test: 18 April 2019

Issued on the 12th day of June 2019 without alterations or additions.

B. Roddy

Brett Roddy
Manager, Fire Testing and Assessments

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 - Testing