



Certificate of Test

No. 3359

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 2026.

Product Name: 450 General Waste door assembly mounted into a 78 mm thick Speedpanel wall

Description: The specimen comprised a top opening, self-closing garbage chute door assembly incorporating a cut down section of the plastic chute intake segment, fitted into a nominal 478-mm high by 478 mm wide steel lined opening in a 78 mm thick Speedpanel wall. The Speedpanel wall has an established FRL of -/120/120 (as detailed in Exova Warringtonfire Aus Pty Ltd report reference RIR 22551-11). The metal door frame was fabricated using 1.95 mm thick Galvabond steel and measured 448.95 mm high x 439.6 mm wide with a total frame depth of 222.4 mm. The two door frame sections were connected using spot welds to form a single door frame. The annular gap around the door frame and wall opening on the unexposed side incorporated a Thermotec polyurethane foam backing rod. The resulting void was then filled with Trafalgar Fyreflex Fire Rated Sealant to a depth of 25-mm. The door leaf measured nominally 433.8-mm high x 432.8-mm wide x 35.25-mm thick. The door leaf core consisted of SkamoDoor Board 250 (calcium silicate board having a bulk density of 250 kg/m³) 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 Zinalume (1.2-mm thick). The door had a galvanised steel intake tray attached. A 1.2-mm thick Galvabond steel baffle door, was attached to the door frame. The door trim was fabricated using stainless steel 304 grade sheets (0.9-mm thick) and attached to the door frame. A small section of the plastic intake chute was cut down in order for the specimen to fit within the furnace chamber. The intake chute material comprised LLDPE plastic (5-8mm thick) which was attached to the door frame. The following items of hardware were fitted to the chute door assembly: Edmonds EZ5000 Series cylindrical lock; Decatur DSC003, pneumatic door closer; Lorient LAS1602BB Intumescent fire and smoke seal; and Windeyer Continuous Hinges. The specimen was tested with the door hinged along the bottom and opening away from the furnace.

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

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| Structural Adequacy | - | not applicable |
| Integrity | - | no failure at 121 minutes |
| Insulation | - | 33 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: 16 July 2019

Issued on the 14th day of January 2020 without alterations or additions.

Brett Roddy
 Manager, Fire Testing and Assessments

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