CERTIFICATE

Material Fire Test Certificate

IGNL-8010-07-01C I01 R00

DATE OF TEST	13.12.2023
ISSUE DATE	18.01.2024
EXPIRY DATE	17.01.2029

SKY Lightweight Modular Vault panel

SPONSOR
CMI Safe Co Australasia Pty Ltd
244 West Street, Carlton
Sydney, NSW 2218

TEST BODY
Ignis Labs Pty Ltd
ABN 36 620 256 617
3 Cooper Place
Queanbeyan NSW 2620
Australia
www.ignislabs.com.au
(02) 6111 2909
Test body is the test location

Introduction

Ignis Labs undertook a test of the SKY Lightweight Modular Vault panel provided by CMI Safe Co Australasia Pty Ltd. The testing was undertaken in accordance with AS/NZS 3837:1998. The group number was predicted in accordance with AS 5637.1:2015. This is a short form AS 5637.1:2015 report.

BCA requirements specify that the Group Number of a wall or ceiling lining shall be determined in accordance with AS 5637.1:2015. Clause 5.4 of AS 5637.1:2015 specifies that for multi-layered specimens, the combination of all layers and each layer individually shall be tested in the cone calorimeter and the group number and ASEA for each layer and the combination determined in accordance with AS/NZS 3837 and the highest group number and ASEA shall be assigned to the specimen. As only the assembled specimen was tested, the predicted result can only be used for guidance purposes.

Product Description

The sponsor described the test specimen as vault panel. It is composed of layers of wood (medium density fibre) and thermoplastic (steel corded conveyor belt), which are seated in a 3 mm steel casing and covered in fire retardant resin. It has a nominal mass per unit area of 70 kg/m² and a nominal thickness of 50 mm. The specimen is white is colour and its end use is for vault construction.

The received specimens were grey resin covered and metal cased internal layers of wood and thermoplastic. It has a nominal thickness of approximately 49.7 mm.

Ignis Labs was not responsible for the sampling stage. All specimens were sampled by the test sponsor. The test results apply to the specimens as received.

AS 5637.1 Group Number: 1 | ASEA 135.59 m^2/kg

Specimen

The test specimen has characteristics are listed below

Average specimen thickness:	49.7 mm
Average specimen pre-test mass:	1325.2 g
Specimen colour:	Grey

Test Method

Six (6) were tested in accordance with the requirements of AS/NZS 3837. Prior to the test, the specimens were conditioned at an ambient temperature of 23 ±2 °C and a relative humidity 50 ±5 %. A retaining grid was applied.

Notes

- The results of this fire test may be used to directly assess fire hazard, but it should be recognised that a single test method will not provide a full assessment of fire hazard under all fire conditions.
- As per Section 9 (n) of AS 5637.1:2015, the determination of the group number was based on the AS/NZS 3837:1998 test.
- Clause A5.2(1)(e) of the BCA allows for evidence of suitability in relation to a report from a professional engineer that certifiers that a material, product, form or construction or design fulfils specific requirements of the BCA, sets out the basis on which it is given and the extent to which relevant standards, specifications, rules, codes of practice or other publications have been relied upon to demonstrate it fulfils specific requirements of the BCA.
- This report is provided in accordance with BCA Clause A5.2(1)(e) as a report from a professional engineer. In accordance with BCA Clause A5.2(1)(b) it is demonstrated that the material and testing demonstrates compliance with the requirements of the BCA in accordance with AS 5637.1:2015 in determining the group number.

IGNIS LABS PTY LTD ignis labs MATERIAL FIRE TESTING Certificate ABN 36 620 256 617

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