CERTIFICATE

Material Fire Test Certificate

IGNL-4169-14-01C I01 R00

DATE OF TEST	18.12.2020
ISSUE DATE	29.11.2024
EXPIRY DATE	01.02.2026

Quickboard Castellated Ceiling Lining Board

SPONSOR
Perma Composites
14 Garino Rise,
Wangara, WA 6065

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 testing of the Quickboard Castellated Ceiling Lining Board provided by Perma Composites. 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.

NCC requirements specify that the Group Number of a wall or ceiling lining shall be determined in accordance with AS 5637.1:2015. Clause 5.3.3 of AS 5637.1:2015 specifies the materials that are suitable for testing in accordance with AS/NZS 3837:1998 for the purpose of determining a Group Number. This list does not include materials such as thermoplastics that change phase or intumesce due to the uncertainty of results introduced with the melting or dimension change of the specimen. It was observed during testing that the test specimen was dimensionally stable prior to ignition as such, it is considered that the results of AS/NZS 3837 testing are sufficient to determine the group number of this material as is the case for materials listed in Clause 5.3.3 of AS 5637.1.

Product Description

The sponsor described the tested specimen as a castellated ceiling lining board with the nominal composition of 50% PVC, 30% wood powder, 7.5% calcium carbonate, 2% toner, 1.5% foaming regulator, 6% PMMA and 3% plasticizer. It has a nominal density of 800kg/m^3 and a nominal thickness of 21mm. The colour of the specimen is described by the sponsor as 'French Oak', and the end use is ceiling as well as wall linings.

The received specimens were a black castellated PVC panel with a grey coating on the exposed face. Each specimen consisted of two ridges down either side, with a recess down the centre. The recessed face of the specimen makes up less than 30% of the surface area of the specimen.

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

AS 5637.1 Group Number: 3 | ASEA 406.8 m^2/kg

Specimen

The test specimen has characteristics are listed below

Average specimen thickness:	21.63 mm
Average specimen pre-test mass:	46.14 g
Specimen colour:	Black and Grey

Test Method

Three (3) specimens 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 %.

Reference Documents

This certificate is based on the following documents:

- Ignis Labs Test Certificate IGNL-4169-07C I01R00 dated 02 February 2021.

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 A5G3(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 A5G3(1)(e) as a report from a professional engineer. In accordance with BCA Clause A5G3(1)(b) it is demonstrated that the material and testing demonstrate 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

Laboratory Engineer
Tom Lewis

Chartered Professional Engineer
Benjamin Hughes-Brown
FIEAust CPEng NER APEC Engineer IntPE(Aus)
CPEng, NER (Fire Safety / Mech) 2590091, RPEQ11498, BDC-1875, PRE0000303, DEP0000317, PE0001872
MFireSafety (UWS), BEng (UTS), GradDipBushFire (UWS), DipEngPrac (UTS), DipEng (CIT)