CERTIFICATE

Material Fire Test Certificate

IGNL-2113-07-03C I01 R00

DATE OF TEST	01.02.2023
ISSUE DATE	05.05.2023
EXPIRY DATE	04.05.2028

Panespol Polyurethane Panel with Fireproof Polymer

SPONSOR

Panespol Systems De Alcoy S.L.
Buixcarro, 5
Alcoy, Spain, 03802

TEST BODY

Ignis Labs Pty Ltd
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Test body is the test location

Introduction

Ignis Labs undertook a test of the Panespol Polyurethane Panel with Fireproof Polymer material provided by Panespol Systems De Alcoy S.L. The testing was undertaken in accordance with AS/NZS 3837:1998. The group number was determined 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 5.3.3 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 includes rigid non-thermoplastic foams due to the uncertainty of results introduced with the melting or dimension change of the specimen. It was observed during testing that the Panespol Polyurethane Panel with Fireproof Polymer material, despite being a thermoplastic, did not melt or otherwise change dimensionally prior to ignition and exhibited a linear mass loss throughout the flaming period. 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.

Product Description

The sponsor described the specimens as a high-density polyurethane-based panel. It is composed of a dual-component polyurethane system (80%), dual-component cladding comprising of a crystal mineral base and an acrylic polymer (15%), micronised limestone (4%), inorganic pigments and colourants (0.5%), and water-based paint coating with acrylic co-polymers (0.5%). It has a nominal density of 250 kg/m3 and a nominal thickness of 27.88 to 29.42 mm. Its end use is as wall cladding.

The received specimens are a pale yellow coloured panel with a brick textured facing. The have a measured nominal thickness of 24.3 mm and a measured nominal density of 0.40 g/cm3.

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 299.18 m^2s^{-2} x 1000

Specimen

The test specimen has characteristics are listed below

Specimen colour:	Yellow

Test Method

AS/NZS 3837 | 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 %. The textured face of the specimen was facing upwards for testing.

Reference Documents

This certificate is based on the following documents:

- Ignis Labs Test Certificate IGNL-2113-07-03 I01R00 dated 27.02.2023.
- National Construction Code Volume One Building Code of Australia 2022.

Notes

1. 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.
2. As per Section 9 (m) of AS 5637.1:2015, the determination of the group number was based on the AS ISO 9705-2003 test.
3. 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.
4. 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 A2.2(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

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Disclaimer These test results relate only to the behaviour of the test specimens of the material under the particular conditions of the test, and they are not intended to be the sole criterion for assessing the potential fire hazard of the material in use. The information contained in this document is provided for the sole use of the recipient and no reliance should be placed on the information by any other person. In the event that the information is disclosed or furnished to any other person, Ignis Labs Pty Ltd accepts no liability for any loss or damage incurred by that person whatsoever as a result of using the information.

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