

AWTA PRODUCT TESTING

Australian Wool Testing Authority Ltd - trading as AWTA Product Testing
A.B.N 43 006 014 106

1st Floor, 191 Racecourse Road, Flemington, Victoria 3031
P.O Box 240, North Melbourne, Victoria 3051
Phone (03) 9371 2400

TEST REPORT

Client : Perma Composites Pty Ltd
14 Garino Rise
Wangara WA 6065

Test Number : 24-004866
Issue Date : 3/12/2024
Print Date : 9/12/2024
Order Number : IGNL 8365-05

Sample Description Clients Ref : "IGNL 8365-05 146 Heavy Grain Decking"
Decking Boards
Colour : American Oak
End Use : Decking
Nominal Composition : Wood Plastic Composite
Nominal Mass per Unit Area/Density : 28.2kg/m2
Nominal Thickness : 22mm



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Accredited for compliance with ISO/IEC 17025 - Testing
Accreditation Numbers: 983, 985, and 1356

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Chris Campbell

APPROVED SIGNATORY

MICHAEL A. JACKSON B.Sc.(Hons)
MANAGING DIRECTOR

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AS ISO 9239.1-2003

Reaction to Fire Tests for Floorings. Determination of the Burning Behaviour using a Radiant Heat Source

Date of Sample Arrival 08-10-2024

Date Tested 14-11-2024

CHF Value	1	2	3	Mean
Length	4.6	4.6	4.8	4.7 kW/m ²
Width	6.7	-	-	- kW/m ²
HF-30 Value	1	2	3	Mean
Length	6.3	8.3	6.7	7.1 kW/m ²
Width	6.9	-	-	- kW/m ²
Smoke Value	1	2	3	Mean
Length	410	203	234	282 %.min
Width	91	-	-	- %.min

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Observation
Blistering

Yes

The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test, they are not intended to be sole criterion for assessing the potential fire hazard of the product in use.

Sample was conditioned in accordance with BSEN 13238:2010 at a temperature of $23\pm 2^{\circ}\text{C}$ and relative humidity of $50\pm 5\%$ for a minimum of 48 hours prior to testing.

Results in accordance with section 8.4 have not been included in the report. They are available upon request.

Each specimen was clamped to a substrate of 6mm thick fibre reinforced cement board prior to testing.

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Chris Campbell

APPROVED SIGNATORY

MICHAEL A. JACKSON B.Sc.(Hons)
MANAGING DIRECTOR

Class of Building	Building not fitted with a sprinkler system (other than a FPAA 101D or FPAA101H system) complying with specification 17	Building fitted with a sprinkler system (other than a FPAA101D or FPAA101H system) complying with Specification 17	Fire-isolated exits and fire control rooms
Class 2, 3, 5, 6, 7, 8 or 9b, excluding Class 3 accommodation for the aged and Class 9b as specified below	2.2 kW/m ²	1.2 kW/m ²	2.2 kW/m ²
Class 3 accommodation for the aged	4.5 kW/m ²	2.2 kW/m ²	4.5 kW/m ²
Class 9a patient care areas	4.5 kW/m ²	2.2 kW/m ²	4.5 kW/m ²
Class 9a areas other than patient care areas	2.2 kW/m ²	1.2 kW/m ²	4.5 kW/m ²
Class 9b auditorium or audience seating area used mainly for indoor swimming or ice skating	1.2 kW/m ²	1.2 kW/m ²	2.2 kW/m ²
Class 9b auditorium or audience seating area used mainly for other sports or multi-purpose functions	2.2 kW/m ²	1.2 kW/m ²	2.2 kW/m ²
Class 9c resident use area	N/A	2.2 kW/m ²	4.5 kW/m ²
Class 9c areas other than resident use areas	N/A	1.2 kW/m ²	4.5 kW/m ²

The National Construction Code of Australia Volume 1 Building Code of Australia (BCA) Clause S7C3 establishes the application of flooring products where Specification S7C3 Table details the application of the specimen based on the results. The maximum smoke development rate of 750 percent-minutes is set for non-sprinkler protected buildings. Where the smoke development rate is greater than 750 percent/minutes the material can only be used in sprinkler protected buildings. This criteria does not apply to outdoor occupied areas under Part G6 of the BCA.

The smoke development rate being 282 % min results in the specimen being suitable for both sprinklered and non-sprinklered buildings. The critical radiant flux must not less than the values detailed in the table below. The results being 4.70 kW/m² results in the specimen being suitable for the table above.

Fire Group Table Notes

1) Building Classification Guide

- a. Class 2 - A building containing 2 or more sole-occupancy units each being a separate dwelling.
- b. Class 3 - A residential building, other than a Class 1 or 2 building, which is a common place of long term or transient living for a number of unrelated persons. Example: boarding-house, hostel, backpackers' accommodation or residential part of a hotel, motel, school, or detention centre.
- c. Class 5 - An office building used for professional or commercial purposes, excluding buildings of Class 6, 7, 8 or 9.
- d. Class 6 - A shop or other building for the sale of goods by retail or the supply of services direct to the public. Example: café, restaurant, kiosk, hairdressers, showroom, or service station.
- e. Class 7a - A building which is a car park.
- f. Class 7b - A building which is for storage or display of goods or produce for sale by wholesale.
- g. Class 8 - A laboratory, or a building in which a handicraft or process for the production, assembling, altering, repairing, packing, finishing, or cleaning of goods or produce is carried on for trade, sale or gain.
- h. Class 9 - A building of a public nature.
- i. Class 9a - A health care building, including those parts of the building set aside as a laboratory.
- j. Class 9b - An assembly building, including a trade workshop, laboratory, or the like, in a primary or secondary school, but excluding any other parts of the building that are of another class.
- k. Class 9c - An aged care building.

2) " Specific areas" means within:

- a. For Class 2 and 3 buildings - A sole-occupancy unit
- b. For Class 5 buildings - Open plan offices with a minimum floor dimension/floor to ceiling height ratio > 5
- c. For Class 6 buildings - Shops, or other building with a minimum floor dimension/floor to ceiling height ratio > 5
- d. For Class 9a - healthcare buildings and patientcare areas
- e. For Class 9b - An auditorium, theatres and halls, etc.
- f. For Class 9b - Schools, a classroom
- g. For Class 9c - Buildings, resident use area

Graphic

