

# **Test Results Document**

**Product: Crafted Hardwood** 

Document Version: 1.0

Date: 12/12/2023



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### 1.0 Emission Test Certificate - Blackbutt



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## **Emission Test Certificate**

Friday 24th November 2023

Supplier: Crafted Hardwoods Pty Ltd (Lv 1, 68 Northbourne Ave, Canberra, ACT 2601, Australia).

Product name: Crafted Hardwood Blackbutt

Date Tested: November 2023 (Tested by FORAY Laboratories – NATA Accreditation 1231)

Test Method: ASTM D5116-2017 "Standard Guide for Small-Scale Environmental Chamber

Determinations of Organic Emissions from Indoor Material/Products".

#### Emission Data (24 hrs):

Green Building Council of Australia Green Star Design & As Built V1.3 - 13.1.2B & 13.2 Green Star Interiors V1.3 - 12.1.2B	Crafted Hardwood Blackbutt
Total Volatile Organic Compound Emission Rate Limit: <0.500 mg/m²/hr	Total Volatile Organic Compound Emission Rate: 0.105 mg/m²/hr
Formaldehyde Emission Rate Limit: <0.100 mg/m²/hr	Formaldehyde Emission Rate: 0.023 mg/m²/hr

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Issue Date: 24/11/2023 Expiry date: 24/11/2028 P23110048

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### 2.0 Emission Test Certificate - White Gum



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## **Emission Test Certificate**

Friday 24th November 2023

Supplier: Crafted Hardwoods Pty Ltd (Lv 1, 68 Northbourne Ave, Canberra, ACT 2601, Australia).

Product name: Crafted Hardwood White Gum

Date Tested: November 2023 (Tested by FORAY Laboratories - NATA Accreditation 1231)

Test Method: ASTM D5116-2017 "Standard Guide for Small-Scale Environmental Chamber

Determinations of Organic Emissions from Indoor Material/Products".

## Emission Data (24 hrs):

Green Building Council of Australia Green Star Design & As Built V1.3 - 13.1.2B & 13.2 Green Star Interiors V1.3 - 12.1.2B	Crafted Hardwood White Gum	
Total Volatile Organic Compound Emission Rate Limit: <0.500 mg/m²/hr	Total Volatile Organic Compound Emission Rate: 0.107 mg/m²/hr	
Formaldehyde Emission Rate Limit: <0.100 mg/m²/hr	Formaldehyde Emission Rate: 0.032 mg/m²/hr	

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#### 3.0 Reaction to Fire Tests - Blackbutt

29 June 2023

## Blackbutt stair and flooring fire properties

## **Background**

Samples submitted of the Crafted Hardwoods Blackbutt to **Ignis Labs Pty Ltd**, 3 Cooper Place, Queanbeyan, NSW, 2620, Australia to have preliminary fire tests done in accordance with AS/NZS 3837 Cone Calorimeter tests and AS/ISO 9239.1 Reaction to Fire Tests for Flooring test to determine initial fire properties for stair and flooring applications.

## Results

### AS/ISO 9239.1 Reaction to Fire Tests for Flooring tests

The received specimens at Ignis labs were hardwood panels with a nominal thickness of approximately 35 mm. During the tests, all specimens ignited between 141 s and 219 s. Flames spread to the distance between 390 mm and 480 mm. All tests were stopped after the natural extinguishment of the specimens. The test result is as follows below. Crafted Hardwoods Blackbutt Critical Radiant Flux meets the requirements for use in all indoor applications settings.

Parameter	Unit	Result
Average Flame Spread	mm	420
Average Critical Heat Flux	kW/m2	4.8
Average Smoke Obscuration	% min	41.33
Char rate	mm/min	0.69

## AS/NZS 3837 Cone Calorimeter test method

The received specimens were hardwood panels with a nominal thickness of approximately 35 mm. Three (3) specimens were tested in accordance with the requirements of AS/NZS 3837 with an irradiance of 50 kW/m². The specimen is predicted as GROUP 3 with Average Specific Extinction Area (ASEA) being determined as 19.60 m²/kg according to the test criteria specified in Clause 8 of AS 5637.1-2015.



### 4.0 Reaction to Fire Tests - White Gum

29 June 2023

## White Gum stair and flooring fire properties

## **Background**

Samples submitted of the Crafted Hardwoods White Gum to **Ignis Labs Pty Ltd**, 3 Cooper Place, Queanbeyan, NSW, 2620, Australia to have preliminary fire tests done in accordance with AS/NZS 3837 Cone Calorimeter tests and AS/ISO 9239.1 Reaction to Fire Tests for Flooring test to determine initial fire properties for stair and flooring applications.

## **Results**

## AS/ISO 9239.1 Reaction to Fire Tests for Flooring tests

Specimens tested at Ignis labs were hardwood panels with a nominal thickness of approximately 35 mm. During the tests, all specimens ignited between 137 s and 177 s. Flames spread to the distance between 470 mm and 590 mm. All tests were stopped after the natural extinguishment of the specimens. The test result is as follows:

Parameter	Unit	Result
Average Flame Spread	mm	356.67
Average Critical Heat Flux	kW/m2	3.6
Average Smoke Obscuration	% min	16.55
Char rate	mm/min	0.84

### AS/NZS 3837 Cone Calorimeter test method

Another three (3) specimens were tested in accordance with the requirements of AS/NZS 3837 with an irradiance of 50 kW/m². The specimen is predicted as GROUP 3 with Average Specific Extinction Area (ASEA) being determined as 28.88 m²/kg according to the test criteria specified in Clause 8 of AS 5637.1-2015.