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: WoodEvo Composite Deck

3 Bass Court

Keysborough VIC 3173

Test Number : 23-003308

Issue Date : 28/08/2023 Print Date : 11/09/2023

Sample Description Clients Ref : "WoodEvo EvoClad Wall Cladding"

Castellated wood plastic composite panels

Colour: Grey

End Use: Wall ceiling cladding outdoor

Nominal Composition: 65% Wood fibre, 35% Plastic fibre homogenous blend

Nominal Mass per Unit Area/Density: 15kg/m2

Nominal Thickness: 26mm



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28/08/2023

AS/NZS 3837-1998 Method of Test for Heat and Smoke Release Rates for Materials and Products using an Oxygen

Consumption Calorimeter

Date Tested 24-08-2023

Operator AWTA Test Operator 9

Face Tested FLAT FACE

	Specimen								
	1	2	3	4	5	6	Mea	Mean	
Average Heat Release Rate	22.9	25.9	fti	37.5	31.2	24.8	28.4	kW/m²	
Average Specific extinction area	63.5	57.9	138.9	103.9	26.0	61.5	75.3	m²/kg	

	(according to Specification C1.10 of the Building Code of Australia)									
Test orientation : Horizontal										
	Specimen									
	1	2	3	4	5	6	Mean			
Irradiance	25	25	25	25	25	25	25	kW/m²		
Exhaust flow rate	0.024	0.024	0.024	0.024	0.024	0.024	0.024	m³/s		
Time to sustained flaming	418	343	fti	529	474	547	462	sec		
Test duration	1018	943	600	1129	1074	1147	985	sec		
Peak heat release after ignition	49.6	50.7	n/a	49.5	57.4	44.3	50.3	kW/m²		
Average heat at 60 s	12.1	8.2	n/a	11.1	27.8	4.7	12.8	kW/m²		
Average heat at 180 s	17.1	20.9	n/a	26.6	25.0	6.8	19.3	kW/m²		
Average heat at 300 s	15.5	22.3	n/a	33.9	25.6	12.5	22.0	kW/m²		
Total heat released	13.5	15.3	n/a	22.3	18.4	14.7	16.8	MJ/m²		
Ave. effective heat of combustion	11.8	12.1	n/a	19.6	17.1	15.2	15.1	MJ/kg		
Initial thickness	26	26	26	26	26	26	26.0	mm		
Initial mass	150.8	147.1	152.2	150.5	149.6	153.9	150.7	g		
Mass remaining	141.3	136.6	149.6	141.1	140.7	146.1	142.5	g		
Mass percentage pyrolysed	6.3	7.2	1.7	6.3	5.9	5.1	5.4	%		

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TEST REPORT

WoodEvo Composite Deck Client:

3 Bass Court

Keysborough VIC 3173

Test Number :

23-003308

Issue Date

28/08/2023

Print Date

11/09/2023

g/m² 1172.6 1301.7 n/a 1161.5 1096.1 968.7 1140.1 Mass loss 1.6 2.0 2.2 n/a 1.9 1.8 1.9 g/m2.s

Average rate of mass loss Additional Observations

NONE

Difficulties Encountered during Testing

NONE

Compliance to AS 3959.1.2018, Appendix F2 "Bushfire Resistant Timber"

Complies

Requirement:

Peak heat release rate 100 kW/m² Maximum

Average heat release rate for 10 minutes following ignition shall not

be greater than 60 kw/m²

fti = failed to ignite

Tests were conducted with an Irradiance of 25kW/m2. All calculations are

based on ignition +10 minutes as per AS 3959 Appendix F.

Specimens tested failed to ignite within 10 minutes and testing was ceased as

per section 2.5.2(i).

Tests were conducted with a wire grid placed over the sample during testing. This was done to contain intumescing sample within the sample holder.

These test results relate only to the behaviour of the product under the conditions of the test, they are not intended to be the sole criterion for

assessment of performance under real fire conditions.

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ANAGING DIRECTOR

0204/11/06

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TEST REPORT

Client: WoodEvo Composite Deck

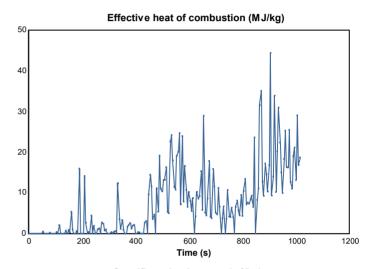
3 Bass Court

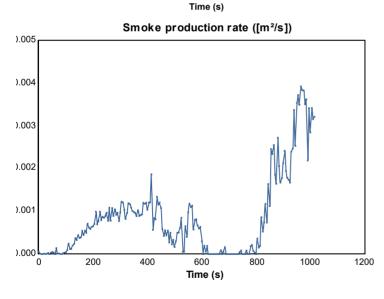
Keysborough VIC 3173

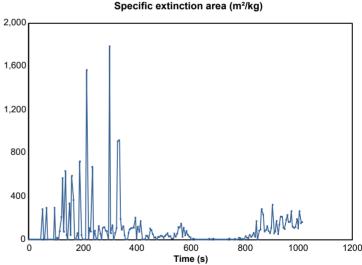
Test Number : 23-003308 Issue Date : 28/08/2023

Print Date : 11/09/2023

Specimen: 1 Heat release rate (kW/m²) 50 40 20 10 0 200 400 600 800 1000 1200







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TEST REPORT

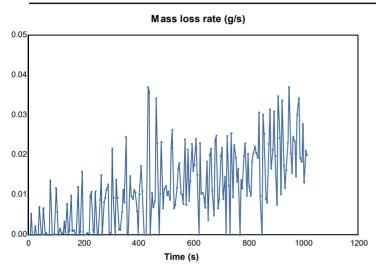
Client: WoodEvo Composite Deck

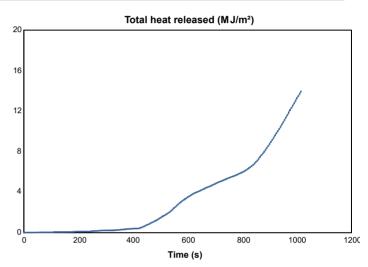
3 Bass Court

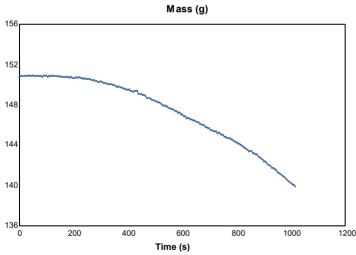
Keysborough VIC 3173

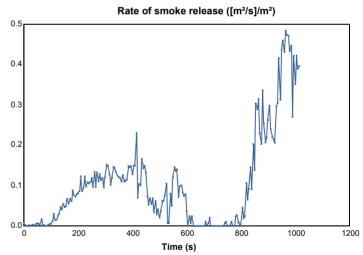
Test Number : 23-003308

Issue Date : 28/08/2023 Print Date : 11/09/2023









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TEST REPORT

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3 Bass Court

Keysborough VIC 3173

Test Number : 23-003308 Issue Date : 28/08/2023

Print Date : 11/09/2023

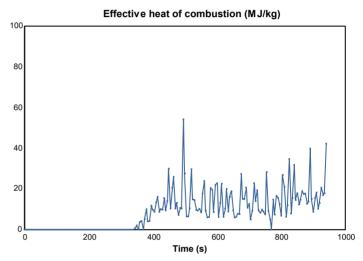
Specimen: 2 Heat release rate (kW/m²) 80 60 40 20

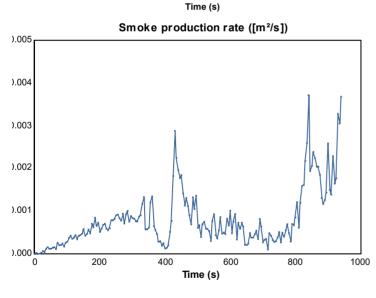
400

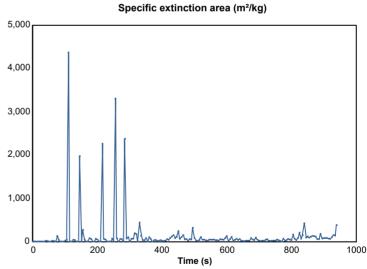
600

800

1000







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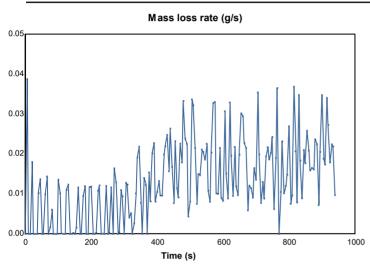
WoodEvo Composite Deck Client:

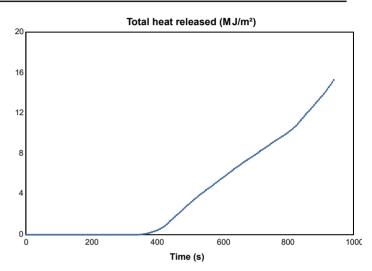
3 Bass Court

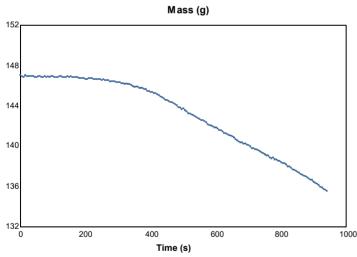
Keysborough VIC 3173

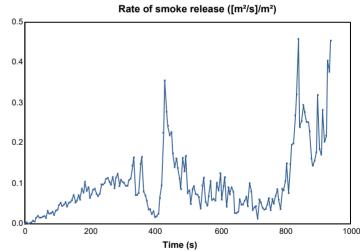
23-003308 Test Number : Issue Date 28/08/2023

11/09/2023 **Print Date**









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TEST REPORT

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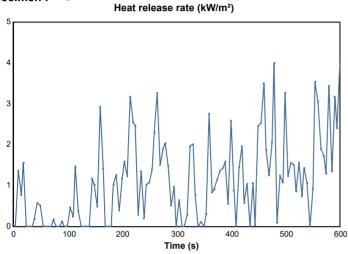
3 Bass Court

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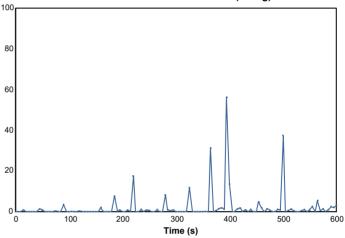
23-003308 Test Number : Issue Date

28/08/2023 11/09/2023 **Print Date**

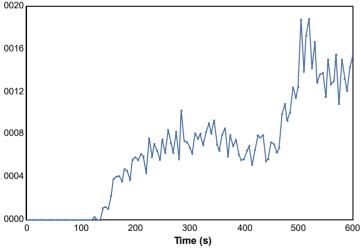
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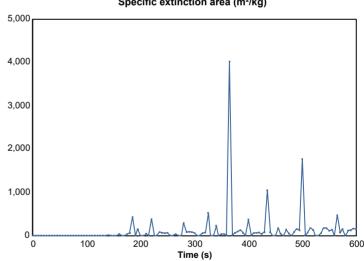
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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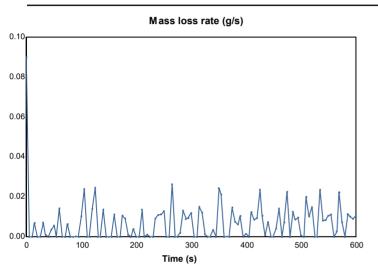
Client: WoodEvo Composite Deck

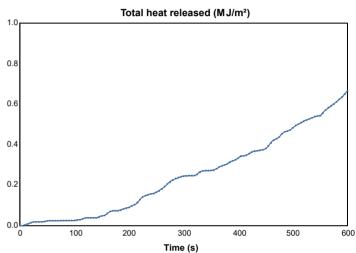
3 Bass Court

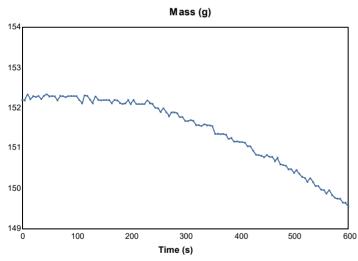
Keysborough VIC 3173

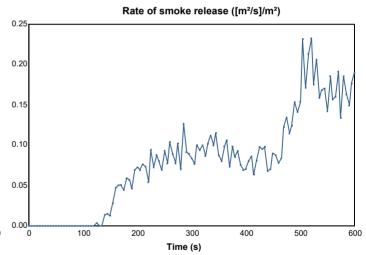
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23-003308 Test Number : Issue Date 28/08/2023

11/09/2023 **Print Date**

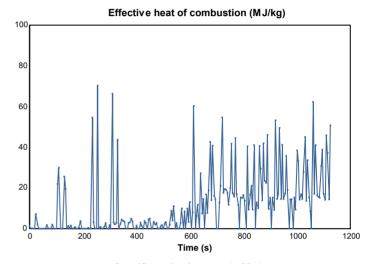
Specimen: Heat release rate (kW/m²) 40 30 20 10

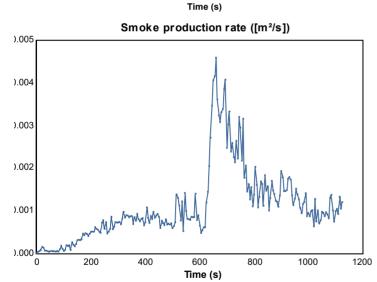
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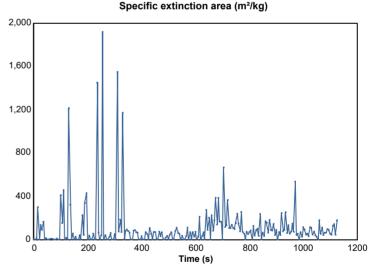
800

1000

1200







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TEST REPORT

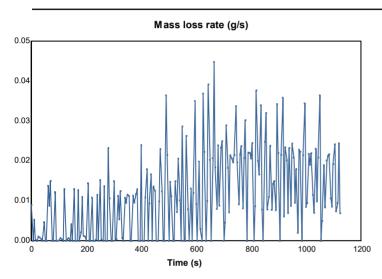
Client: WoodEvo Composite Deck

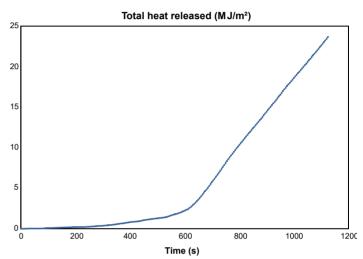
3 Bass Court

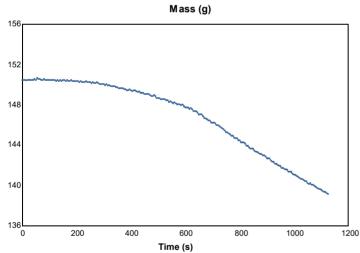
Keysborough VIC 3173

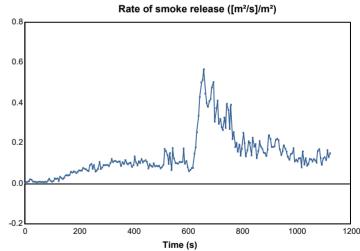
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TEST REPORT

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3 Bass Court

Keysborough VIC 3173

Test Number : 23-003308 Issue Date : 28/08/2023

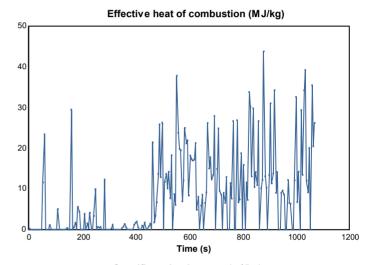
Print Date : 11/09/2023

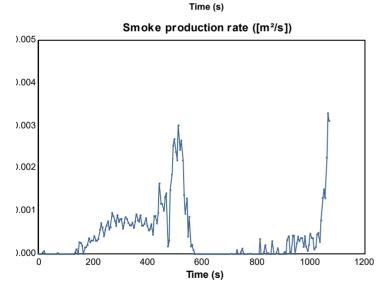
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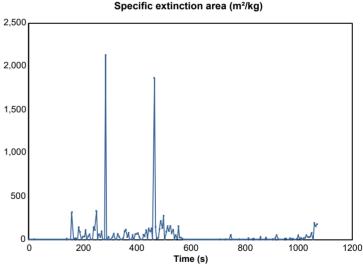
800

1000

1200







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TEST REPORT

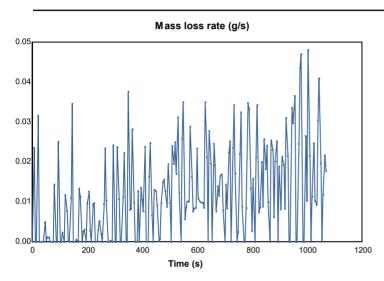
Client: WoodEvo Composite Deck

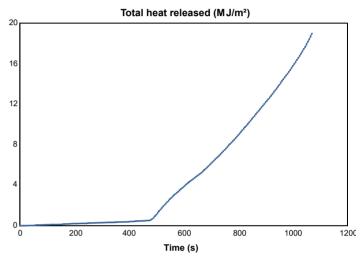
3 Bass Court

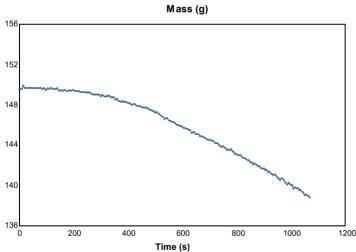
Keysborough VIC 3173

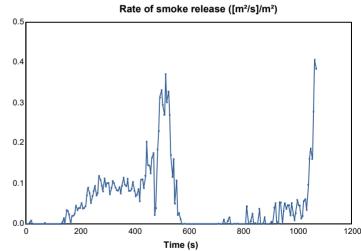
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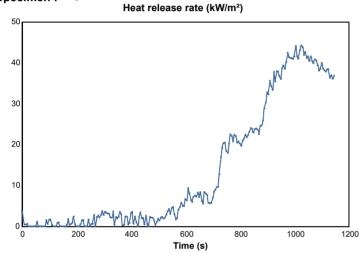
Test Number : Issue Date

23-003308 28/08/2023

Print Date

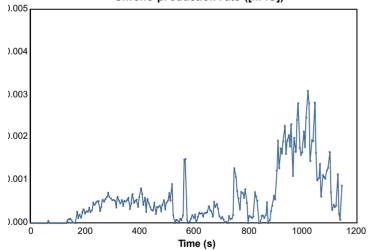
11/09/2023

Specimen:



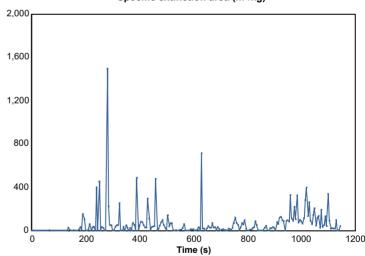
Effective heat of combustion (MJ/kg) 100 80 60 40 20 1200 600

Smoke production rate ([m²/s])



Specific extinction area (m²/kg)

Time (s)



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L A. JACKSON B.Sc.(Hons)

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

WoodEvo Composite Deck Client:

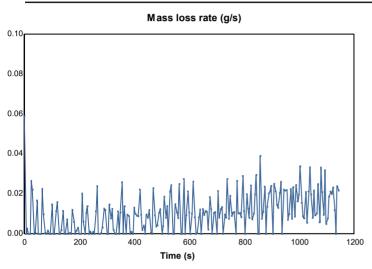
3 Bass Court

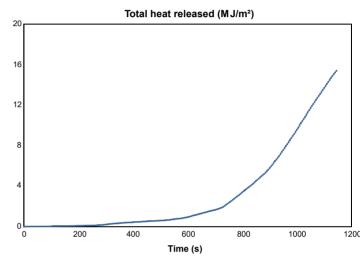
Keysborough VIC 3173

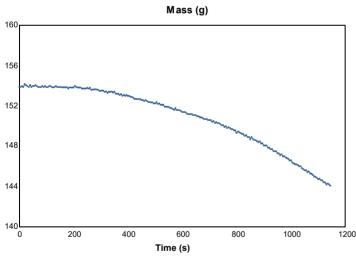
Test Number : Issue Date 28/08/2023

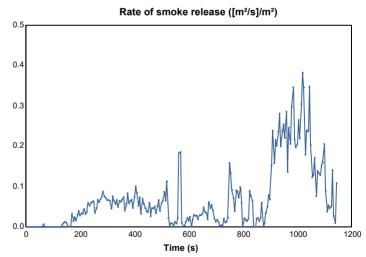
23-003308

11/09/2023 **Print Date**









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