

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

- 20-005673 **Test Number :**
- 05/11/2020 **Issue Date** .
- 5/11/2020 **Print Date** -

Client:

Sample Description	Clients Ref :	
	Composite Decking	
	Colour: Various	
	End Use: Outdoor Dec	cking
	Nominal Composition :	Wood/Polyethylene/Additives
	Nominal Thickness :	25mm

Method of Test for Heat and Smoke Release Rates for Materials and Products using an Oxygen **AS/NZS 3837-1998 Consumption Calorimeter** 29/10/2020 Date Tested Face Tested Vanous

Specimen

0.3

	1	2	3	Mean	
Average Heat Release Rate	fti	fti	fti	fti	kW/m²
Average Specific extinction area	164.6	248.5	494.5	302.5	m²/kg
	(according to Specifica	tion C1.10 of the	Building Code c	of Australia)	
Test orientation : Horizontal					
		Specimen			
		2	3	Mean	
Irradiance	25	25	25	25	kW/m²
Exhaust flow rate	0.024	0.024	0.024	0.024	m³/s
Time to sustained flaming	fti	fti	fti	fti	Sec
Test duration	600	600	600	600	Sec
Initial thickness	25	25	25	25.0	mm
Initial mass	311	321.6	326.9	319.8	g
Mass remaining	309.1	320.5	326.0	318.6	g

140088

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47677

Accredited for compliance with ISO/IEC 17025 - Testing

0.6

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APPROVED SIGNATORY

0.3



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0.4





0204/11/06



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Mass loss	228.9	136.7	109.6	158.4	kg/m²
Average rate of mass loss	0.4	0.2	0.2	0.3	g/m².s
Additional Observations	None				
Difficulties Encountered during Testing	None				

fti = failed to ignite

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.

Specimens tested failed to ignite within 10 minutes and testing was ceased as per section 2.5.2(i).

Tests were conducted with an Irradiance of 25kW/m2. All calculations are based on ignition +10 minutes as per AS 3959 Appendix F.

Compliance to AS 3959-2018 Appendix F2

Requirement: Peak heat release rate 100kW/m2 maximum.

Average heat release rate for 10 minutes following ignition shall not be greater than 60kW/m2

Complies

Compliance to AS 3959- 2018, Clause 7.7.2.4 BAL 29- Decking, stair treads and the trafficable surfaces of ramps and landings

Complies

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		the Managing Directo	or of AWTA Ltd.	Albala	MICHAEL A. JACKSON B.Sc.(Hons)
020	4/11/06			APPROVED SIGNATORY	MANAGING DIRECTOR



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Specimen :





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Client :



Time (s)

Time (s)



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Client :

Specimen: 2





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Client :



Time (s)

Time (s)



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Client:

Specimen: 3



0	100	200	300 Time (s)	400	500	600	0	100	200	300 Time (s)	400	500	600
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Client:



Time (s)

Time (s)



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