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: Huangshan Huasu New Material Science

& Technology Co.,Ltd

Chenhbei Industrial Zone, Huizhou District, Huanhshan City, Anhui Province 245000 China **Test Number** : 20-005673

Issue Date : 05/11/2020

kW/m²

Print Date : 5/11/2020

Sample Description Clients Ref : "HuangShan Huasu Composite Decking"

Composite Decking
Colour: Various

End Use: Outdoor Decking

Nominal Composition: Wood/Polyethylene/Additives

Nominal Thickness: 25mm

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

Consumption Calorimeter

Date Tested 29/10/2020 Face Tested Vanous

Specimen

1 2 3 Mean fti fti fti

Average Specific extinction area 164.6 248.5 494.5 302.5 m²/kg

(according to Specification C1.10 of the Building Code of Australia)

Chaoiman

Test orientation : Horizontal

Average Heat Release Rate

	Specimen				
	1	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
Mass percentage pyrolysed	0.6	0.3	0.3	0.4	%

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Mass loss 228.9 136.7 109.6 158.4 kg/m^2 Average rate of mass loss 0.4 0.2 0.2 0.3 g/m^2 .s

None

None

Additional Observations

Difficulties Encountered during Testing

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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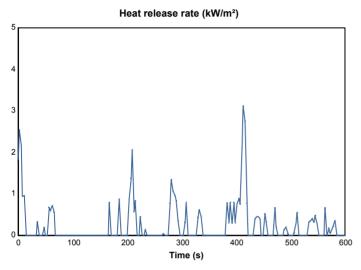
Chenhbei Industrial Zone, Huizhou District, Huanhshan City, Anhui Province 245000 China Test Number : 20-Issue Date : 05/

20-005673 05/11/2020

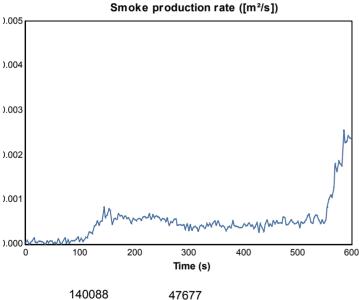
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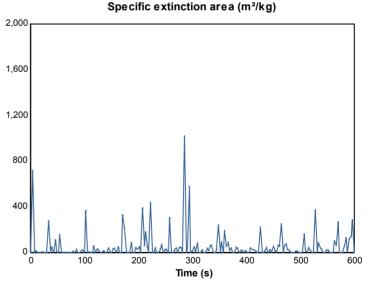
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Specimen: 1



25 20 15 10 5 0 100 200 300 400 500 600 Time (s)





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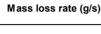
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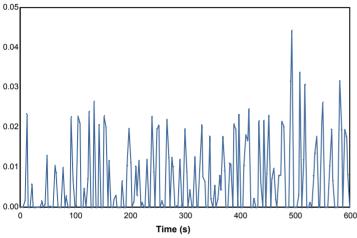
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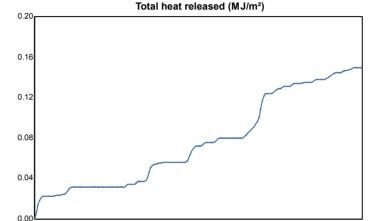
20-005673 05/11/2020

Print Date

5/11/2020



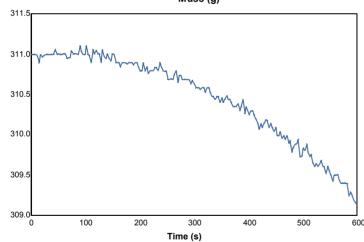




100

200

Mass (g)

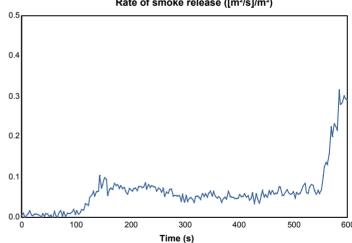


Rate of smoke release ([m²/s]/m²)

300

Time (s)

400



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500

600

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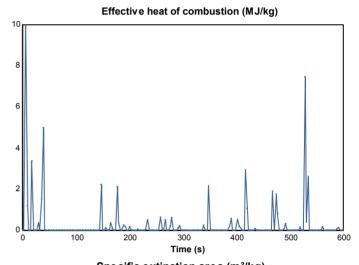
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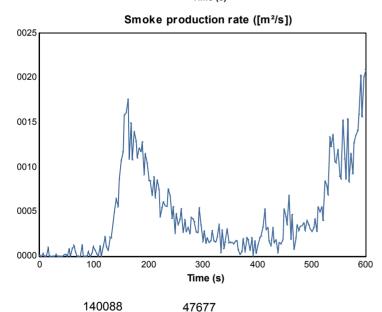
Chenhbei Industrial Zone, Huizhou District, Huanhshan City, Anhui Province 245000 China Test Number : 20-005673 Issue Date : 05/11/2020

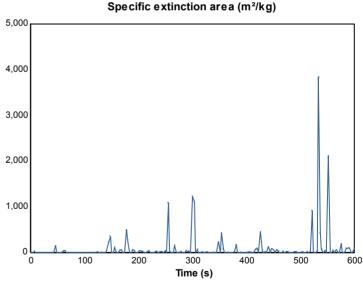
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Specimen: 2

Heat release rate (kW/m²) 4 3 2 1 0 100 200 300 400 500 600 Time (s)







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Huangshan Huasu New Material Science Client:

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0.10

0.08

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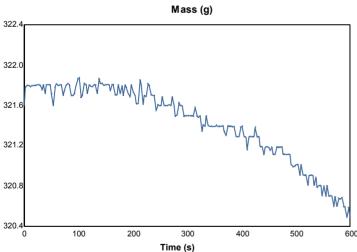
20-005673 Test Number : Issue Date 05/11/2020

5/11/2020 **Print Date**

Mass loss rate (g/s)

Total heat released (MJ/m²) 0.20 0.16 0.12 0.08 0.04 0.00 100 200 300 Time (s)

0.0 0.04 0.02 Mass (g)



Rate of smoke release ([m²/s]/m²) 0.5 0.4 0.3 0.2 0.1 0.0

Time (s)

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500

600

400

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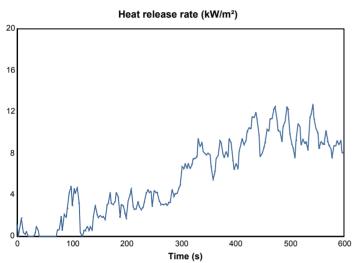
Client: Huangshan Huasu New Material Science

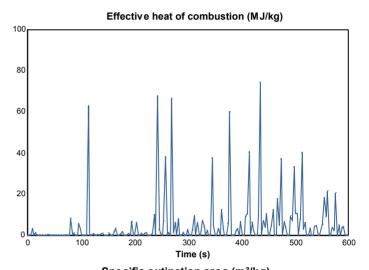
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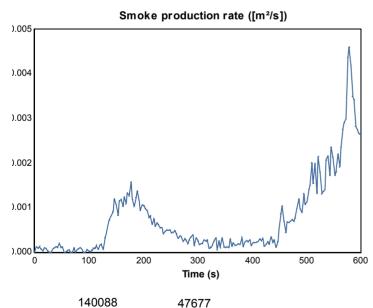
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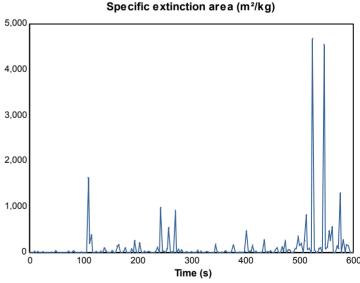
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Specimen: 3









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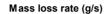
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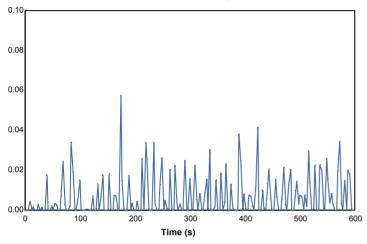
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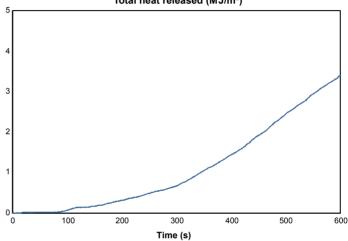
Print Date

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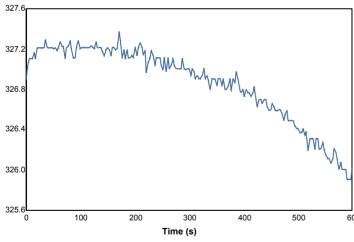




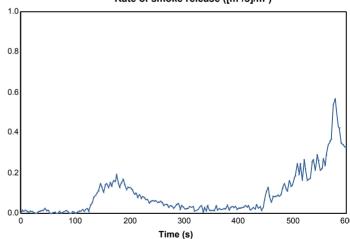
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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