

AWTA PRODUCT TESTING

A Division of Australian Wool Testing Authority Limited

Laboratory: 1st Floor, 191 Racecourse Rd, Flemington, Victoria 3031 P.O. Box 240 Nth Melbourne 3051 Tel: (03) 9371 2400 Fax: (03) 9371 2499
Website: www.awtaproducttesting.com.au Email: producttesting@awta.com.au

A.B.N. 43 006 014 106

Group Number Assessment (in accordance with AS 5637.1-2015)

Number: 1901003
Issue Date: 23/01/2019

This is to confirm that the product as described below has been tested by AWTA Product Testing.

Testing was performed in accordance with ISO 5660.1:2015 Reaction to fire tests – Heat release, smoke production and mass loss rate – Part 1: Heat release rate (cone calorimeter method) and smoke production rate (dynamic measurement)

AWTA Product Testing report number: 18-007298

Date of Test: 21/01/2019

Test Sponsor

The Laminex Group
22 Trewin Street
Wendouree
Victoria 3355

Sponsor Product Reference: "Sample 23543"

Sponsor Product Description: BB/CC Hardwood Plywood - unbacked

Colour: Natural Nominal Composition: Plywood veneer layers held together with
adhesive Mass per unit area: 770 kg/m³
Nominal Thickness: 9 mm

Product Group Number Classification: Group 3
Average Specific Extinction Area: 55.5 m²/kg

Sean Bassett
Divisional Manager

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TEST REPORT

Client : The Laminex Group
22 Trewin Street
Wendouree VIC 3355

Test Number : 18-007298
Issue Date : 22/01/2019
Print Date : 23/01/2019
Order Number : 3455941

Sample Description Clients Ref : "Sample 23543"
BB/CC Hardwood Plywood - unbacked
Colour : Natural
Nominal Composition : Plywood veneer layers held together with adhesive
Nominal Mass per Unit Area/Density : 770 kg/m³
Nominal Thickness : 9mm

ISO 5660.1-2015

Reaction to Fire Tests - Heat Release Smoke Production and Mass Loss Rate Part 1: Heat Release Rate (Cone Calorimeter Method) and Smoke Production Rate (Dynamic Measurement)

Date Tested 21/01/2019
Operator AWTA Test Operator 3
Face Tested Face

	Specimen				
	1	2	3	Mean	
Average Heat Release Rate	62.6	62.5	63.7	63.0	kW/m ²
Average Specific extinction area	57.3	50.3	58.8	55.5	m ² /kg

Test orientation : Horizontal

	Specimen				
	1	2	3	Mean	
Irradiance	50	50	50	50	kW/m ²
Exhaust flow rate	0.024	0.024	0.024	0.024	m ³ /s
Time to sustained flaming	35	50	42	42	sec
Test duration	1835	1850	1842	1842	sec
Peak heat release after ignition	446.2	514.5	499.3	486.7	kW/m ²
Average heat at 180 s	122.0	111.2	107.2	113.4	kW/m ²
Average heat at 300 s	188.5	181.7	157.7	176.0	kW/m ²
Total heat released	112.8	112.6	114.6	113.3	MJ/m ²

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APPROVED SIGNATORY

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

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Order Number : 3455941

Average effective heat of combustion	14.6	14.8	15.1	14.8	MJ/kg
Initial thickness	9	9	9	9.0	mm
Initial mass	68.6	71.2	70.6	70.1	g
Mass at sustained flaming	68.2	70.0	70.3	69.5	g
Mass remaining	6.2	9.4	8.9	8.2	g
Mass loss	7701.6	7626.1	7620.6	7649.4	g/m ²
Average rate of mass loss	6.8	8.0	8.2	7.7	g/m ² .s
Total smoke Production (Non Flaming phase)	1.5	6.4	3.3	3.7	m ² /m ²
Total smoke Production (Flaming phase)	464.2	389.7	447.9	434.0	m ² /m ²
Total smoke Production (Non Flaming & Flaming phase)	465.7	396.2	451.3	437.7	m ² /m ²
Specimen Surface area	0.00810	0.00810	0.00810	-	m ²
C-Factor (Calibration Constant)	0.043242	0.043242	0.043242	-	-
Additional Observations	None				
Difficulties Encountered during Testing	None				

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.

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

Note: All calculations are based on ignition + 30 minutes.

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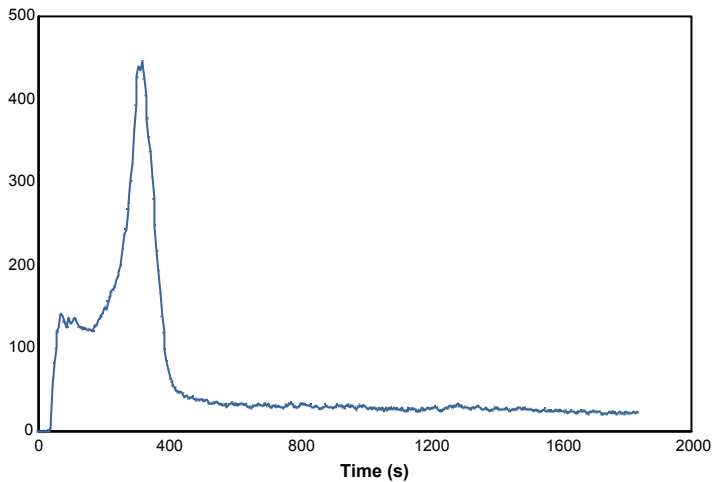
TEST REPORT

Client : The Laminex Group
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Wendouree VIC 3355

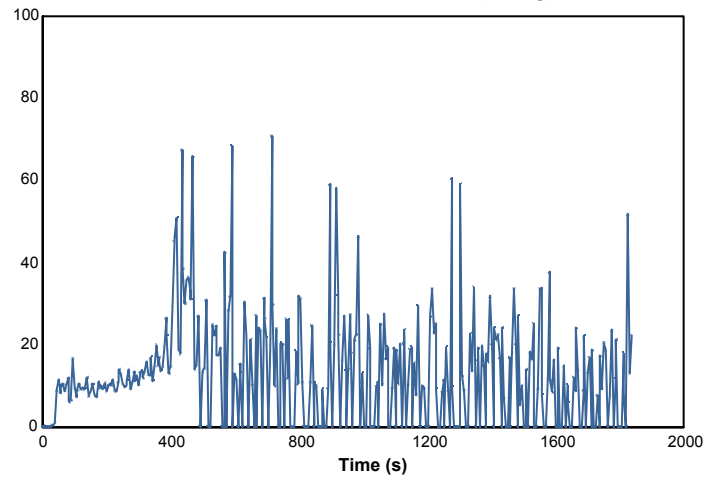
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Issue Date : 22/01/2019
Print Date : 23/01/2019
Order Number : 3455941

Specimen : 1

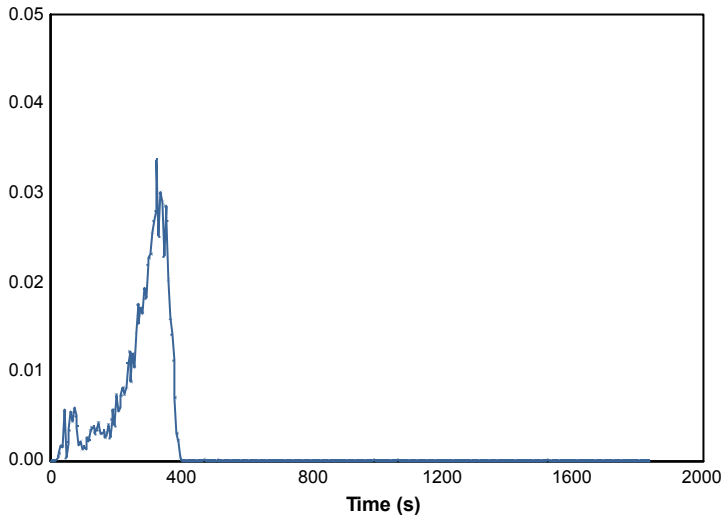
Heat release rate (kW/m²)



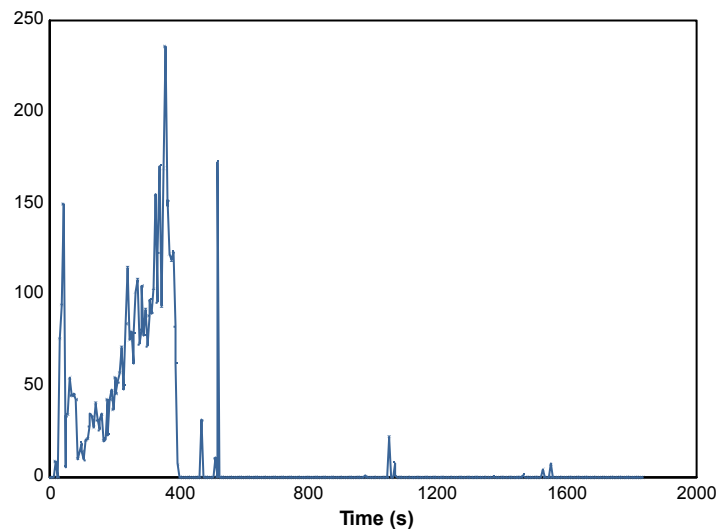
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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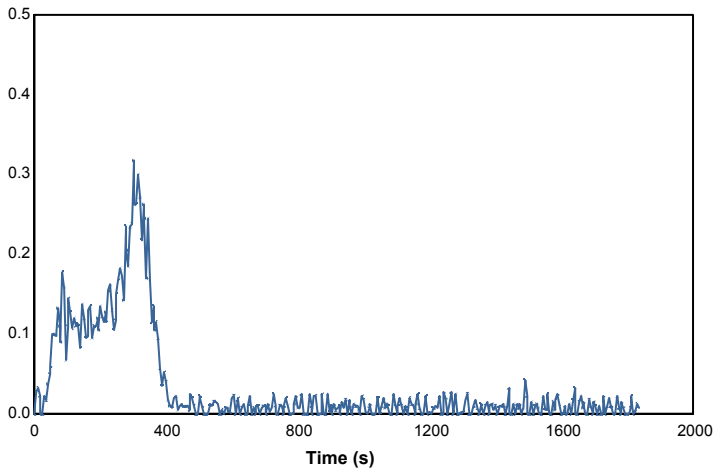
Phone (03) 9371 2400 Fax (03) 9371 2499

TEST REPORT

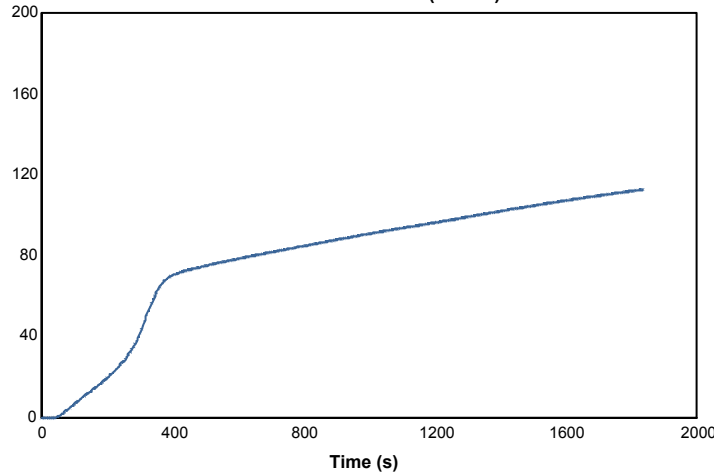
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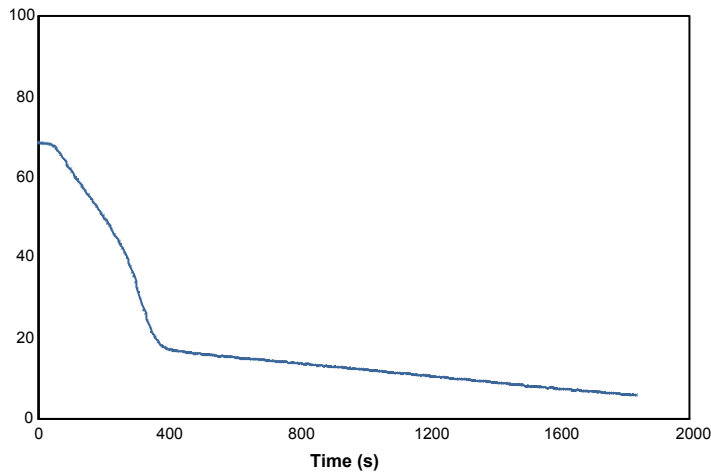
Mass loss rate (g/s)



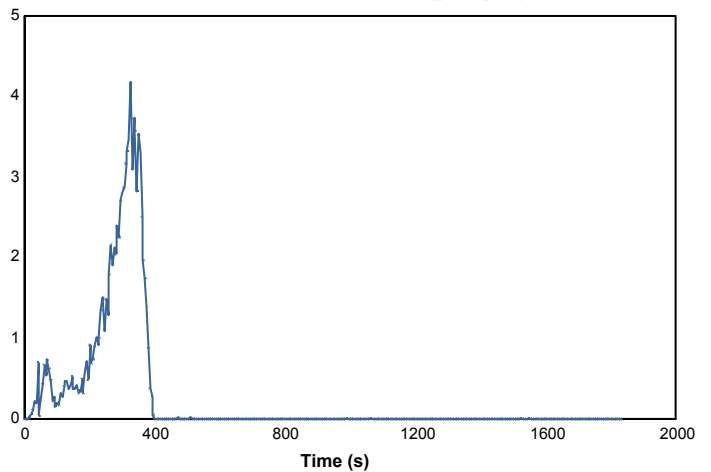
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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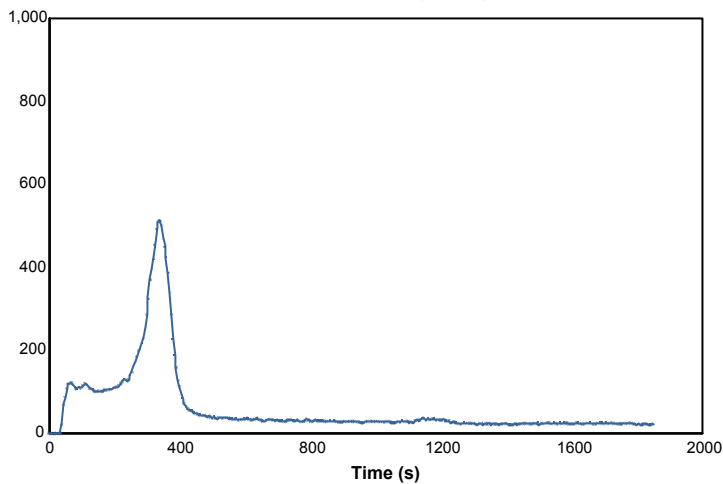
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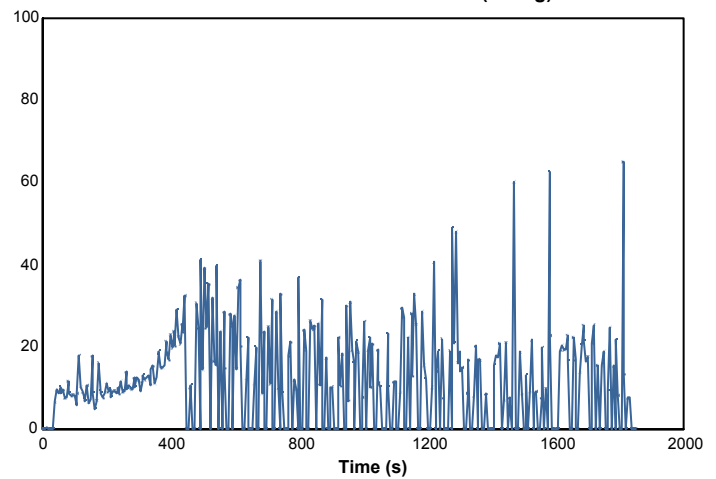
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Order Number : 3455941

Specimen : 2

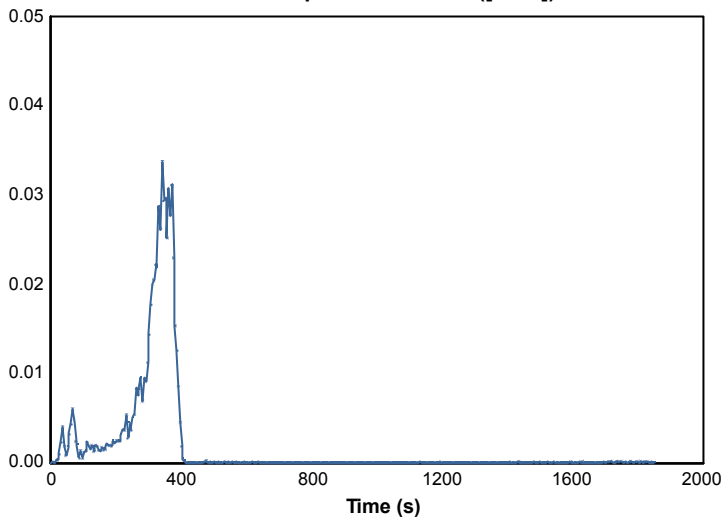
Heat release rate (kW/m²)



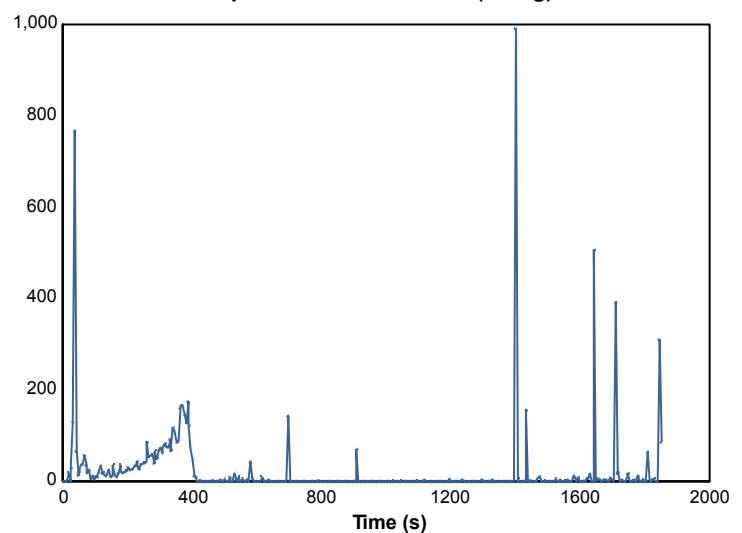
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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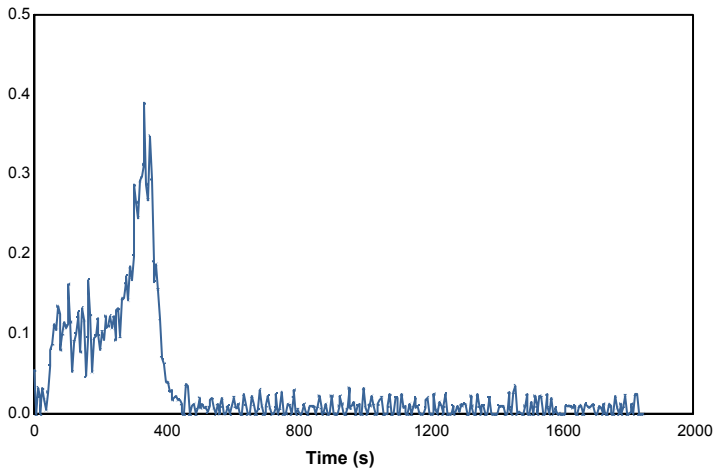
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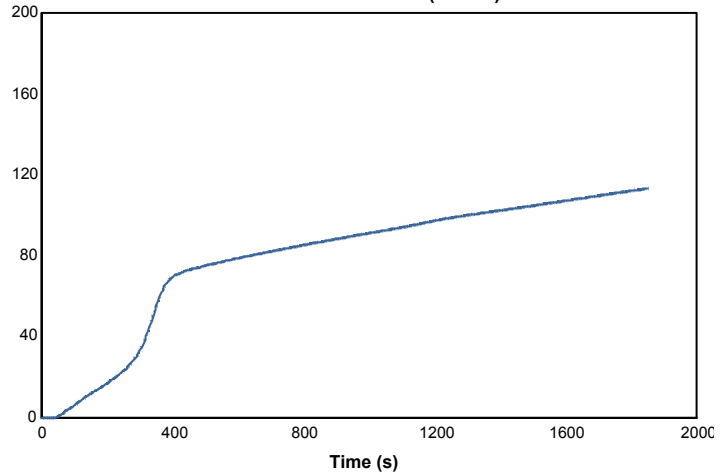
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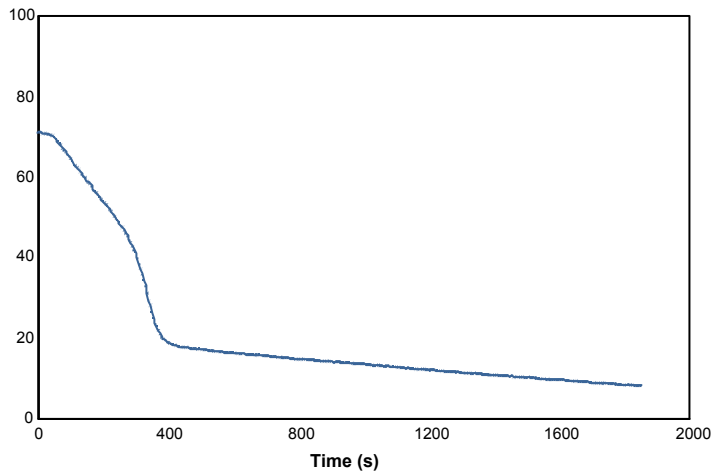
Mass loss rate (g/s)



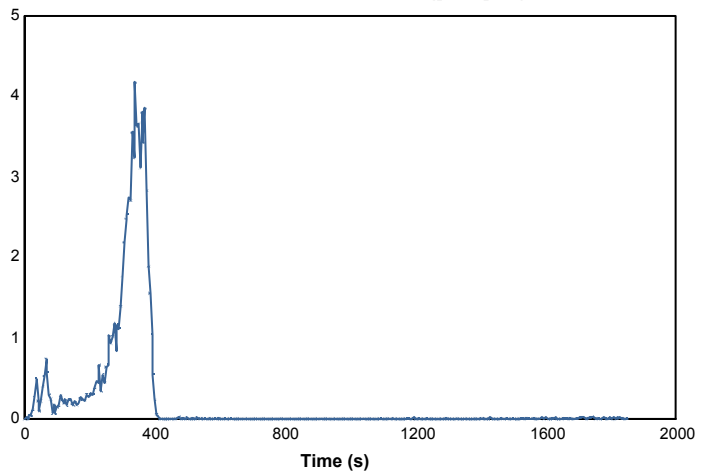
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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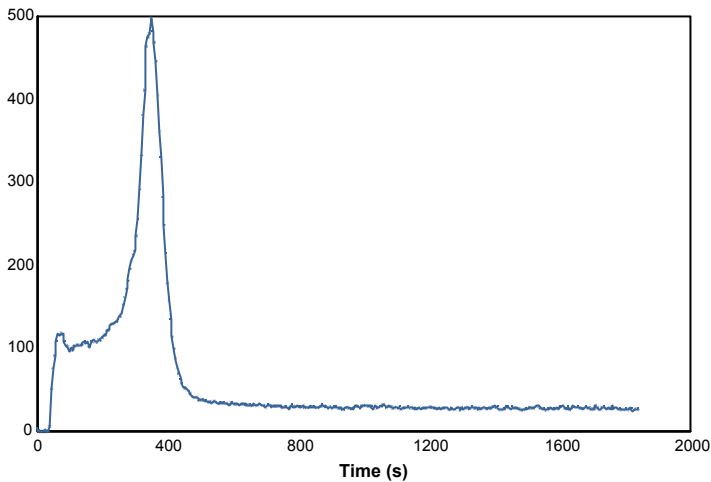
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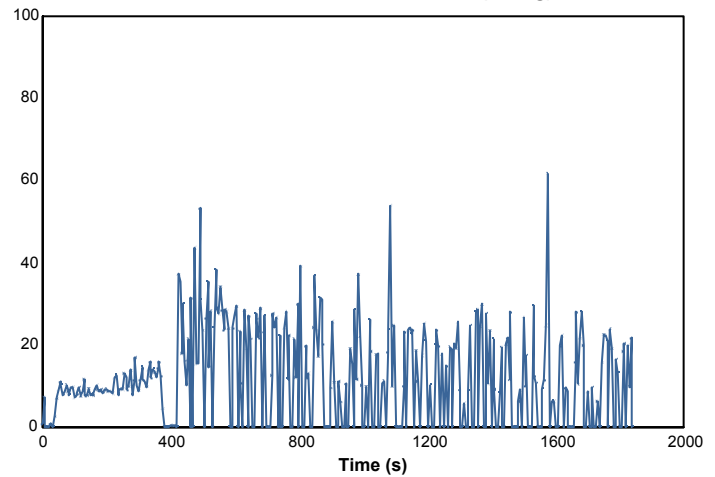
Test Number : 18-007298
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Specimen : 3

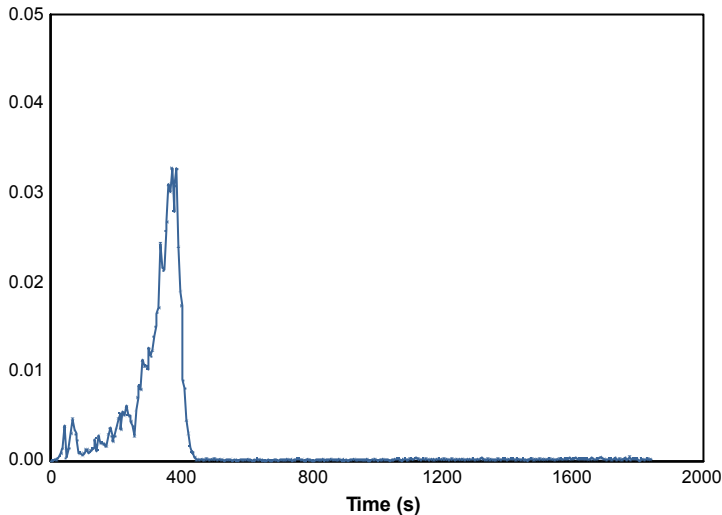
Heat release rate (kW/m²)



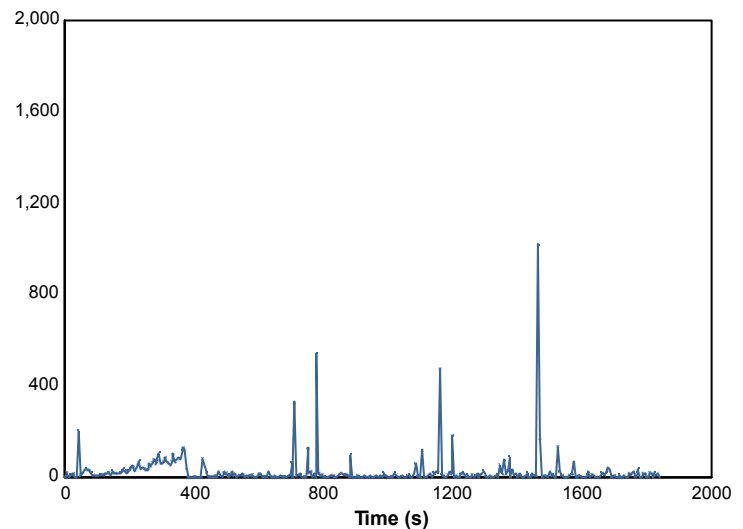
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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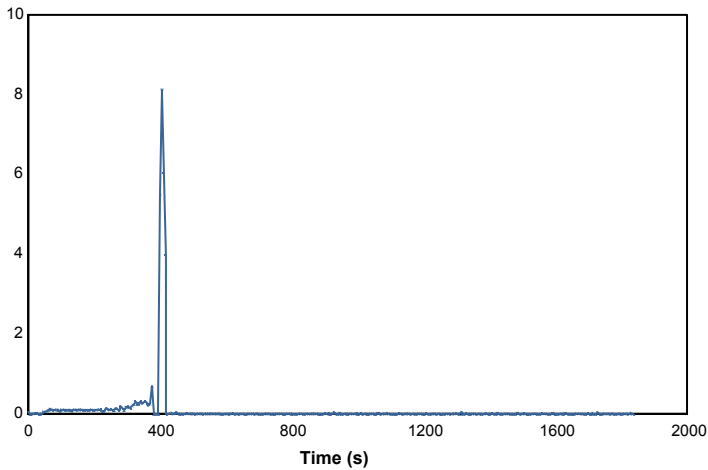
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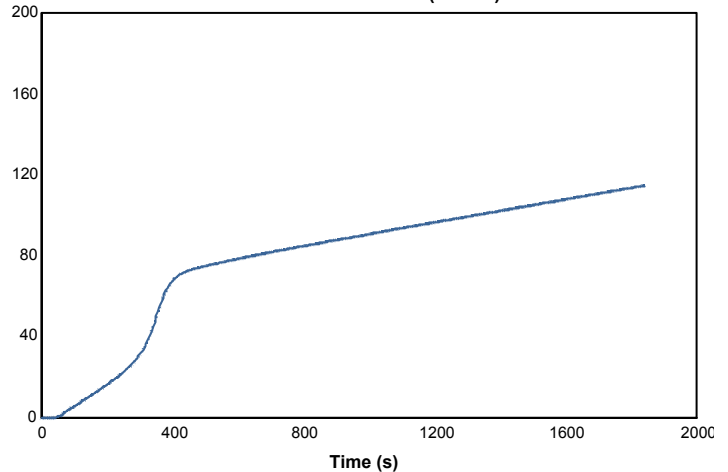
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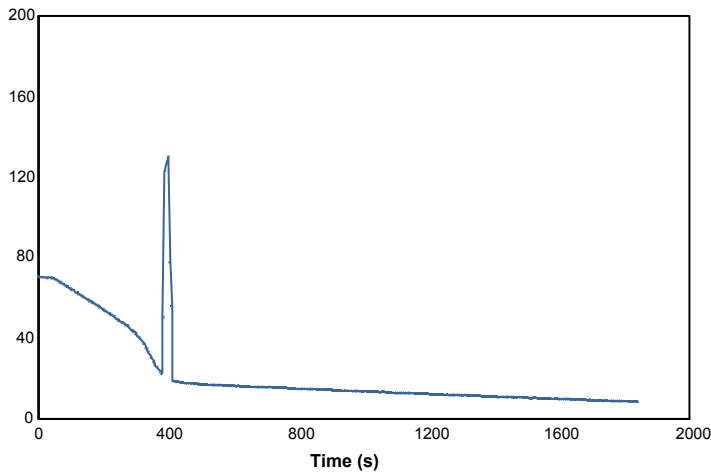
Mass loss rate (g/s)



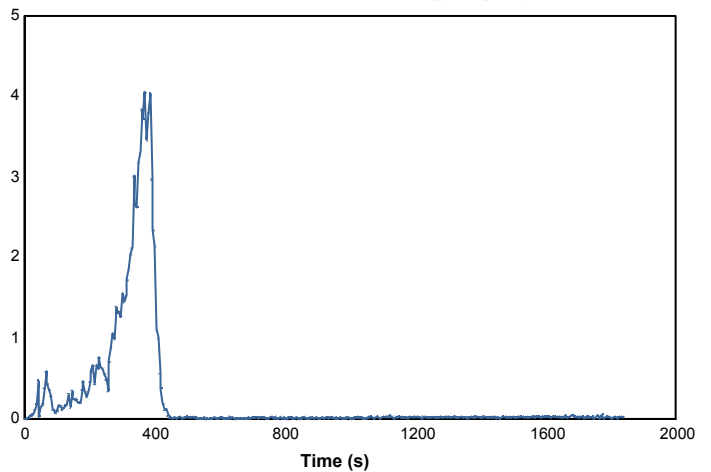
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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