

AWTA PRODUCT TESTING

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

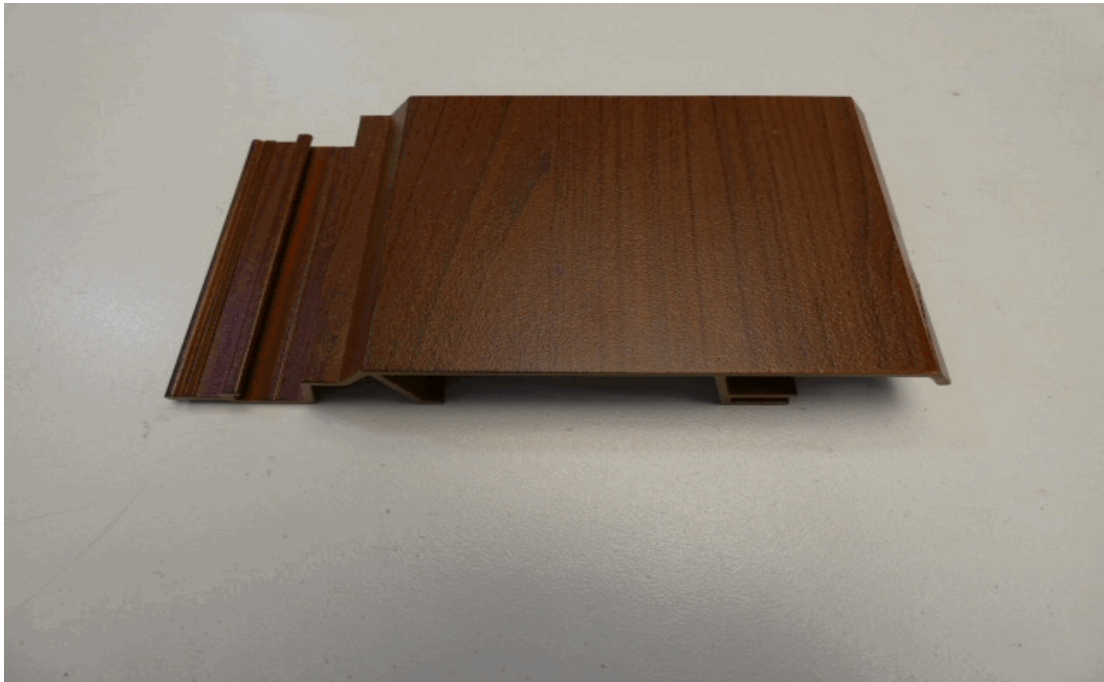
TEST REPORT

Client : The Building Agency Ltd
14 Link Drive
Wairau Valley 0627 New Zealand
New Zealand

Test Number : 22-000683
Issue Date : 31/03/2022
Print Date : 31/03/2022

Sample Description

Clients Ref : "AliClad"
Rigid panel
Colour : Timber look
End Use : External and Internal cladding
Nominal Composition : "Woodgrain" powdercoated extruded aluminium
Nominal Mass per Unit Area/Density : 2690kg/m3
Nominal Thickness : 2.2mm



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Fiona McDonald

APPROVED SIGNATORY

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

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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 31-03-2022
Face Tested FACE

	Specimen				Mean	
	1	2	3	fti		
Average Heat Release Rate	fti	fti	fti	fti	kW/m ²	
Average Specific extinction area	33.6	29.8	2.4	21.9	m ² /kg	

Test orientation : Horizontal

	Specimen				Mean	
	1	2	3	fti		
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	fti	fti	fti	fti	sec	
Test duration	1800	1800	1800	1800	sec	
Initial thickness	8.2	8.2	8.2	8.2	mm	
Initial mass	148.1	146	149.5	147.9	g	
Mass at sustained flaming	n/a	n/a	n/a	n/a	g	
Mass remaining	136.4	134.7	136.0	135.7	g	
Total smoke Production (Non Flaming phase)	57.1	39.9	51.5	49.5	m ² /m ²	
Total smoke Production (Flaming phase)	0.0	0.0	0.0	-	m ² /m ²	

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Total smoke Production (Non Flaming & Flaming phase)	57.1	39.9	51.5	49.5	m ² /m ²
Specimen Surface area				-	
C-Factor (Calibration Constant)	0.037714	0.037714	0.03694	-	
Additional Observations	Transitory flaming and flashing observed, but no sustained ignition				
Difficulties Encountered during Testing	NONE				

fti = failed to ignite

Specimen failed to ignite

Samples were loose laid onto a substrate of 6mm thick cement sheeting prior to testing.

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

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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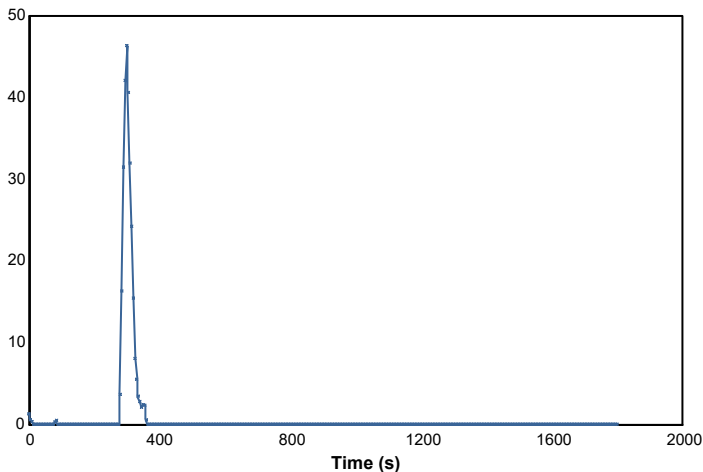
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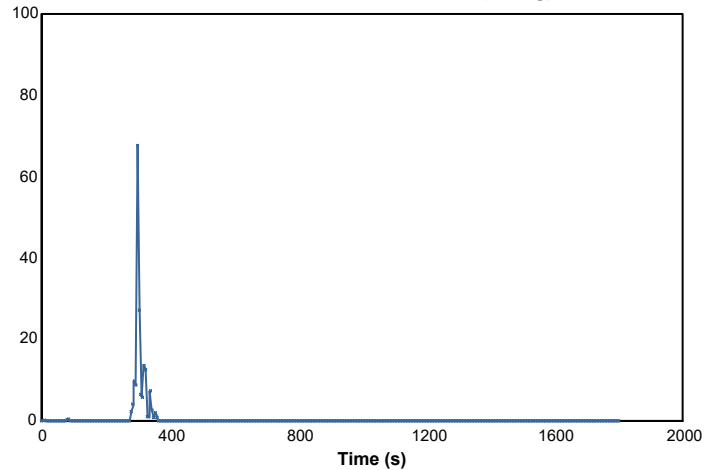
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Specimen : 1

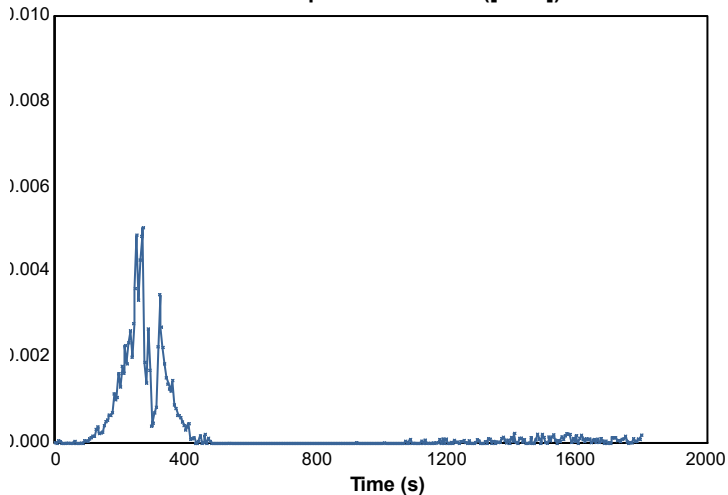
Heat release rate (kW/m²)



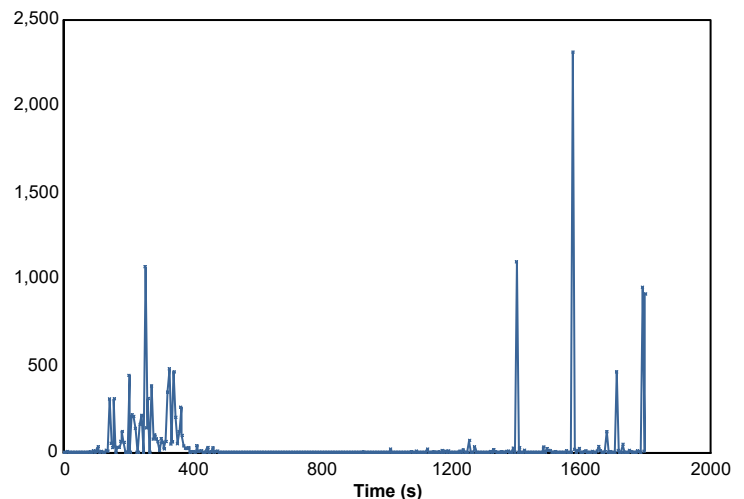
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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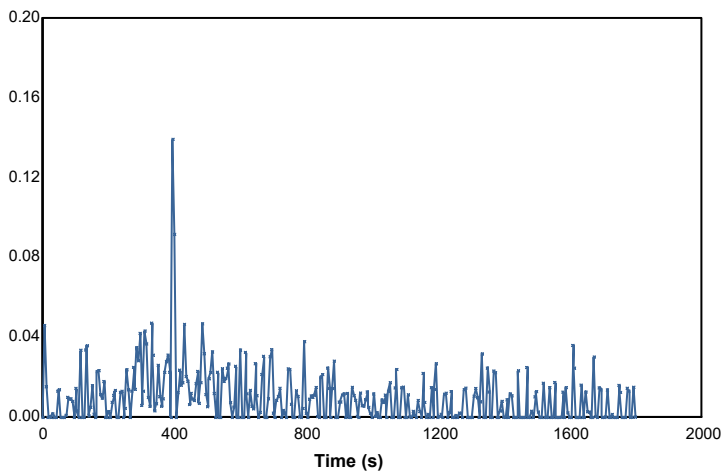
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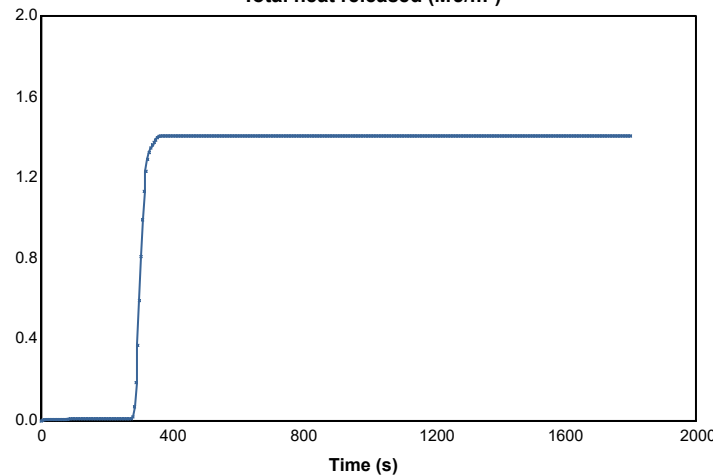
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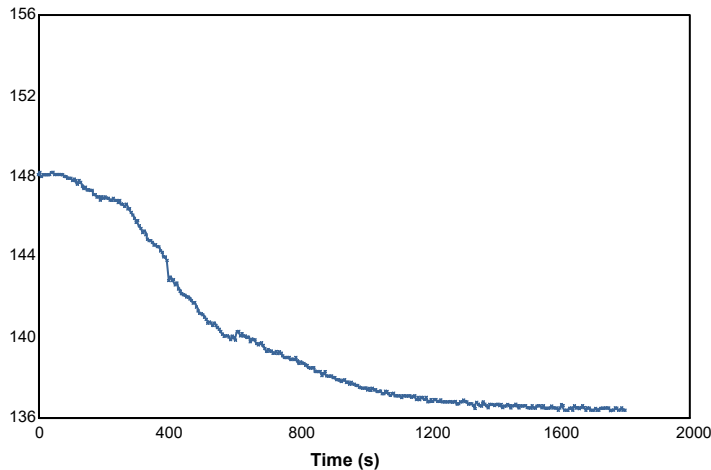
Mass loss rate (g/s)



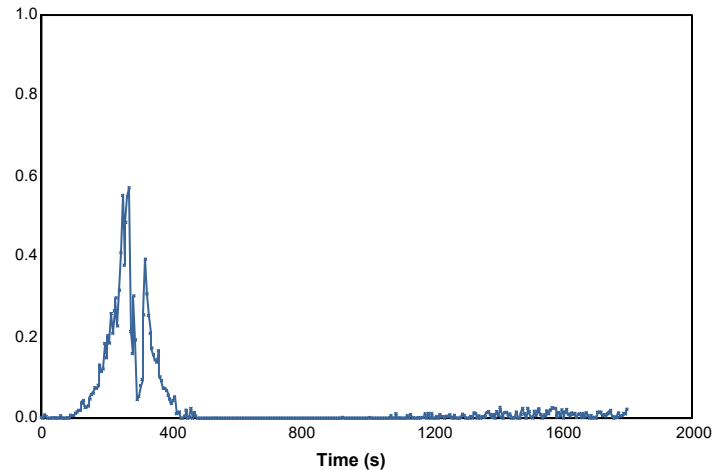
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s)/m²)



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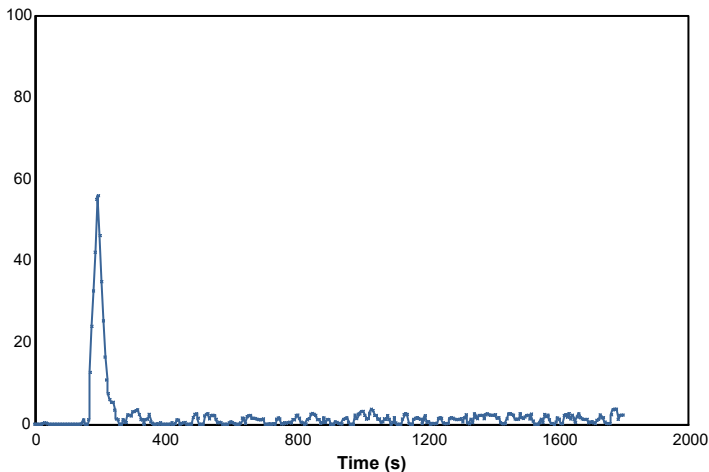
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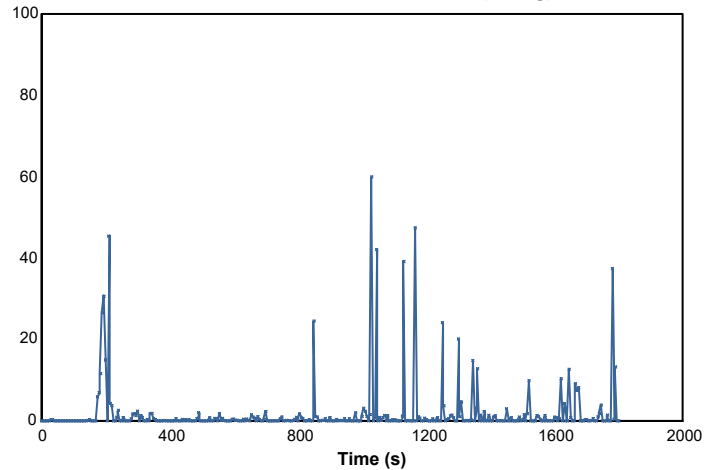
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Specimen : 2

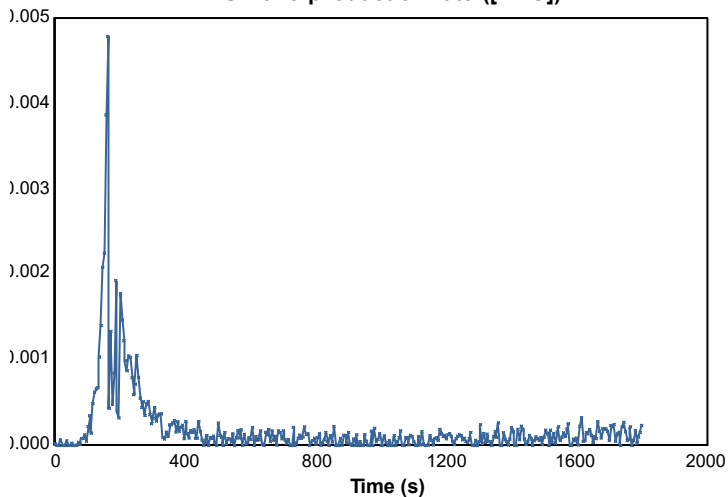
Heat release rate (kW/m²)



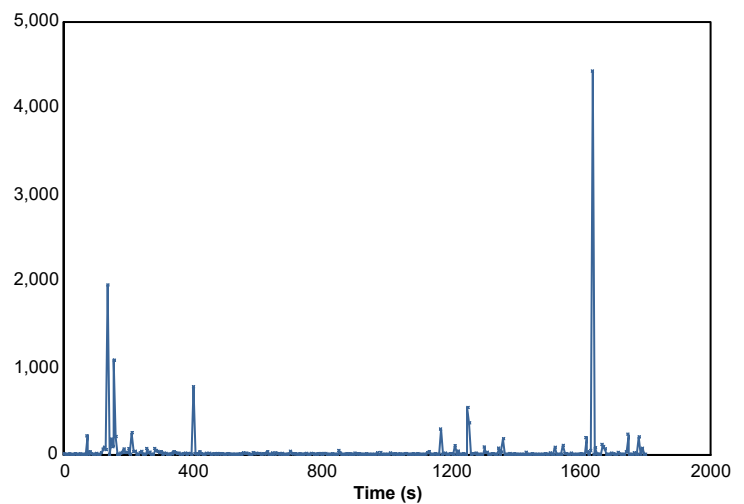
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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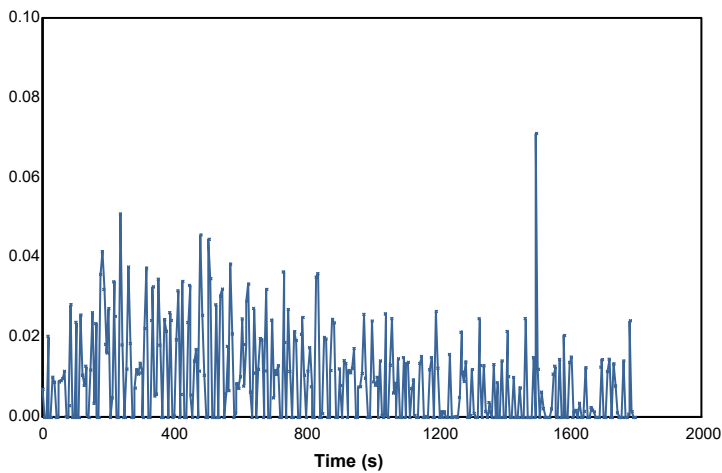
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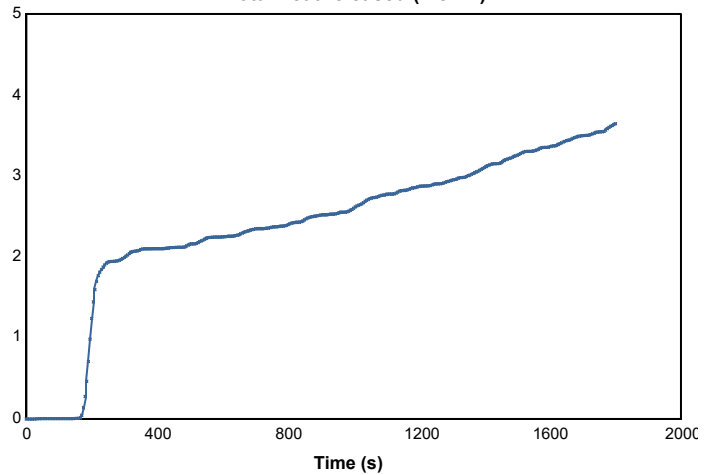
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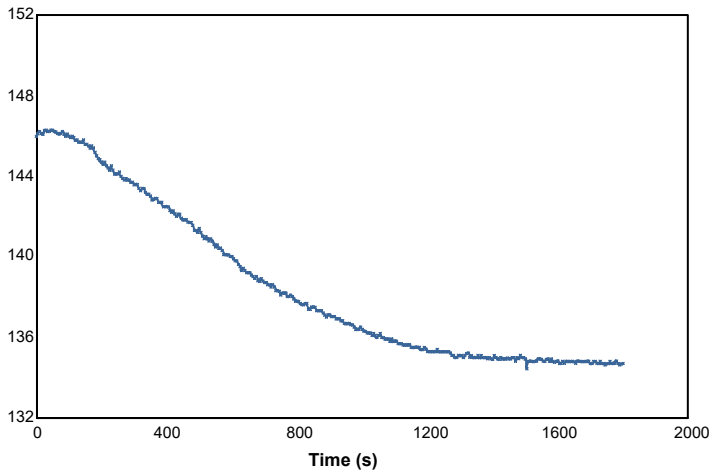
Mass loss rate (g/s)



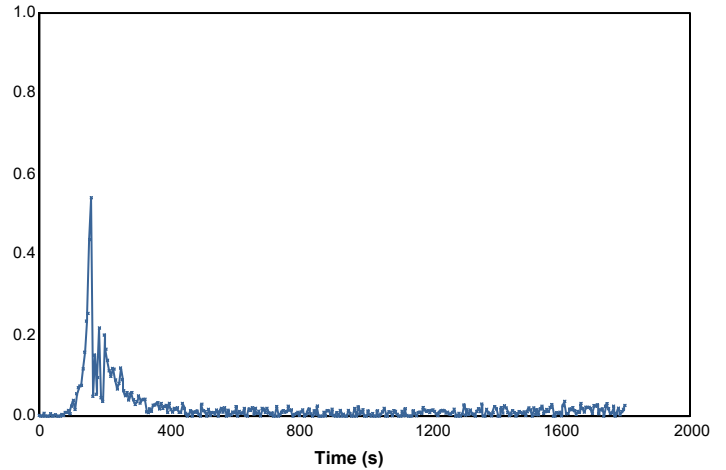
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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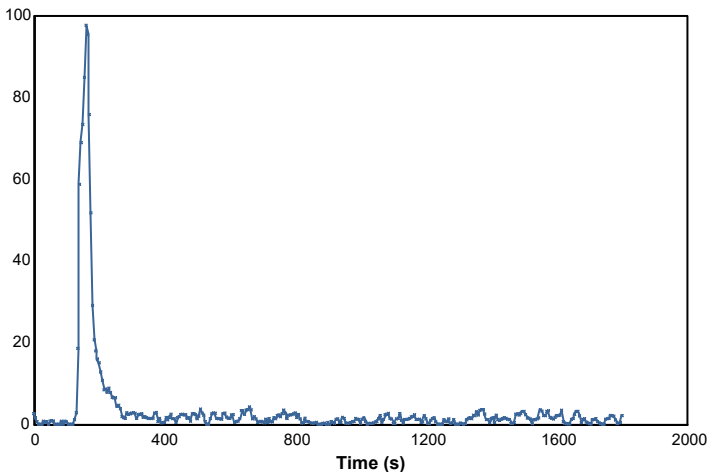
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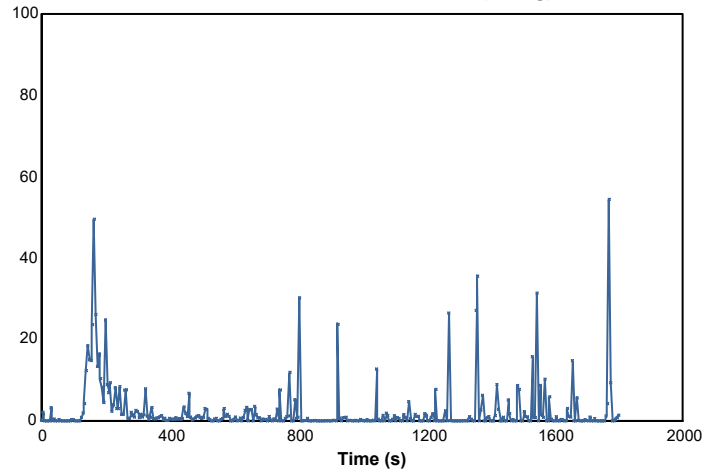
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Specimen : 3

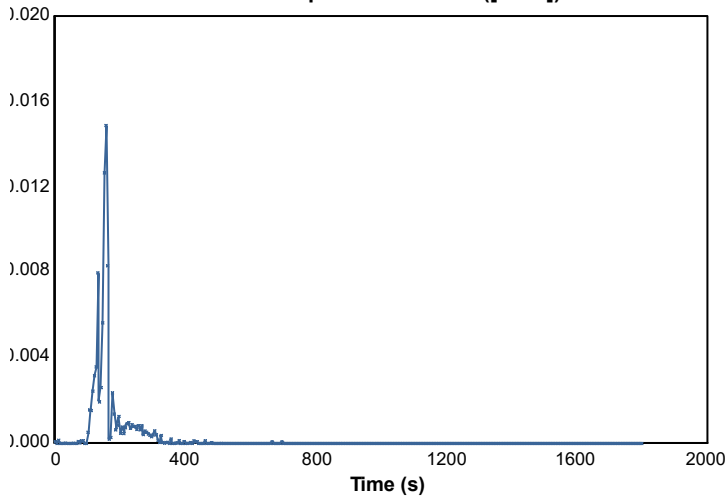
Heat release rate (kW/m²)



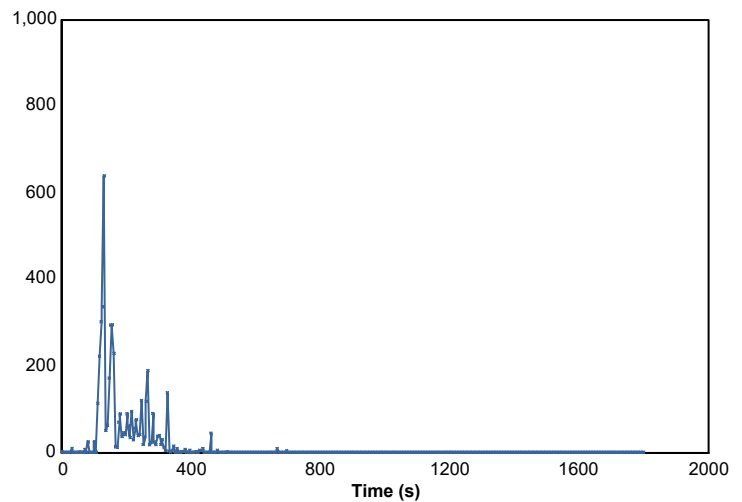
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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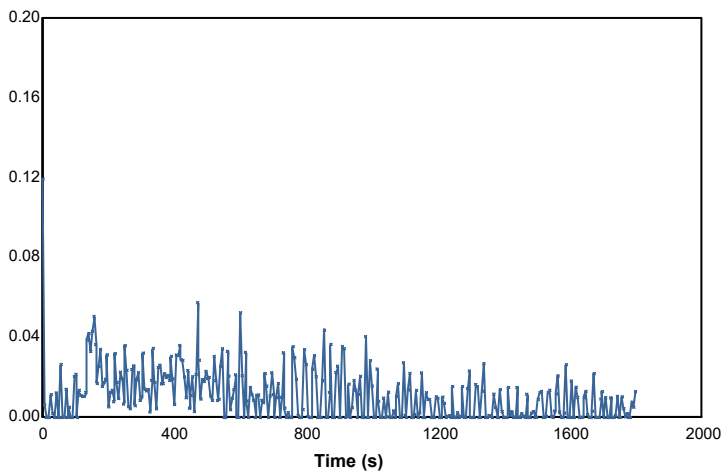
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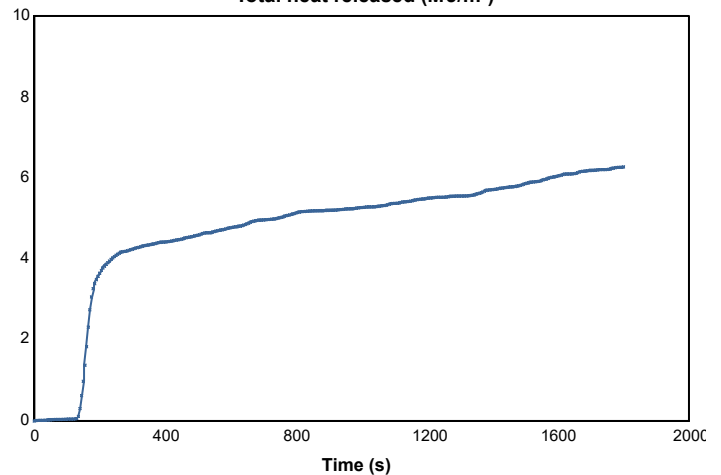
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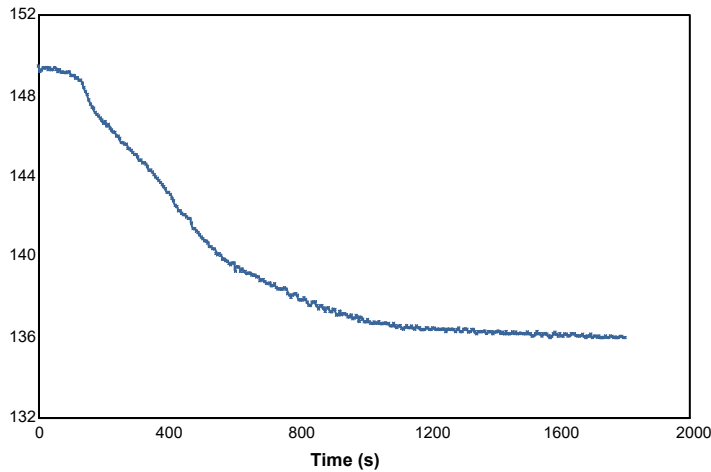
Mass loss rate (g/s)



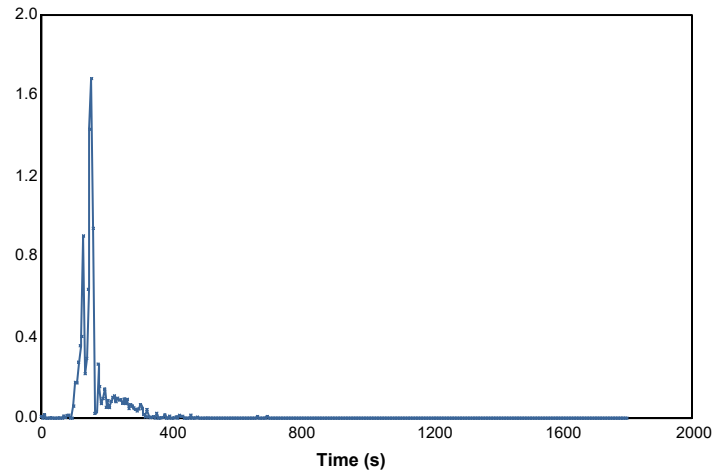
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s)/m²)



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