

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 Fax (03) 9371 2499

TEST REPORT

Client : Etex Group (Equitone Australia)
Suite 201/198 Harbour Esplanade
Docklands VIC 3008

Test Number : 19-004983
Issue Date : 12/09/2019
Print Date : 19/09/2019

Sample Description Clients Ref : "EQUITONE [tectiva] & [lines] ([linea])"
Rigid Panel
Colour : Grey
End Use : External Facade
Nominal Composition : Fibre Reinforced Cement Sheeting
Nominal Mass per Unit Area/Density : Approx 1580kg/m3
Nominal Thickness : 8mm

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 09/09/2019
Operator AWTA Test Operator 3
Face Tested Face

	Specimen						Mean	
	1	2	3	4	5	6		
Average Heat Release Rate	8.8	13.2	fti	12.7	17.4	fti	fti	kW/m ²
Average Specific extinction area	28.4	4.0	0.0	0.0	12.4	6.3	8.5	m ² /kg

(According to ISO 5660.2-2002)

Test orientation : Horizontal

	Specimen						Mean	
	1	2	3	4	5	6		
Irradiance	50	50	50	50	50	50	50	kW/m ²
Exhaust flow rate	0.024	0.024	0.024	0.024	0.024	0.024	0.024	m ³ /s
Time to sustained flaming	502	480	fti	484	433	fti	fti	sec
Test duration	900	900	900	900	900	900	900	sec
Peak heat release after ignition	26.3	37.3	18.0	32.1	44.0	16.8	29.1	kW/m ²
Average heat at 60 s	21.9	35.0	n/a	29.9	40.0	n/a	31.7	kW/m ²

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Average heat at 180 s	14.9	23.6	n/a	20.5	30.5	n/a	22.4	kW/m ²
Average heat at 300 s	10.8	16.8	n/a	15.5	22.6	n/a	11.0	kW/m ²
Total heat released	6.4	8.0	7.5	7.9	11.1	5.8	7.8	MJ/m ²
Ave. effective heat of combustion	5.7	6.6	2.4	6.9	8.8	2.0	5.4	MJ/kg
Initial thickness	9	9	9	9	9	9	9.0	mm
Initial mass	144.9	144.5	144.7	141.9	144.8	143.1	144.0	g
Mass at sustained flaming	125.4	125.8	n/a	124.0	127.2	n/a	-	g
Mass remaining	139.9	137.7	119.7	135.4	137.2	119.3	131.5	g
Mass percentage pyrolysed	3.5	4.7	17.3	4.6	5.2	16.6	8.7	%
Mass loss	617.9	836.0	3091.2	805.8	938.4	2941.5	1538.5	g/m ²
Average rate of mass loss	1.5	2.0	3.4	1.9	2.0	3.3	2.3	g/m ² .s
Total smoke Production (Non Flaming phase)	10.2	5.5	4.2	4.1	9.6	18.9	8.8	m ² /m ²
Total smoke Production (Flaming phase)	17.4	4.1	0.0	1.2	11.6	0.0	5.7	m ² /m ²
Total smoke Production (Non Flaming & Flaming phase)	27.6	9.6	4.2	5.3	21.2	18.9	14.5	m ² /m ²
Specimen Surface area	0.00810	0.00810	0.00810	0.00810	0.00810	0.00810	-	m ²
C-Factor (Calibration Constant)	.040757	0.040757	.040757	.040757	.040256	0.040256	-	

Additional Observations None

Difficulties Encountered during Testing None

fti = failed to ignite

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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.

Specimen failed to ignite

Note: The total heat release is calculated from data measured for 15 minutes from the start of test

Note : The sample has a heat release rate of less than 50 kW/m². In accordance with New Zealand Building Code verification Method C/VM2 Appendix A this product shall be classified as Group 1.

If a different classification group is obtained for different specimens tested, then the highest (worst) classification for any specimen must be taken as the final classification for that material.

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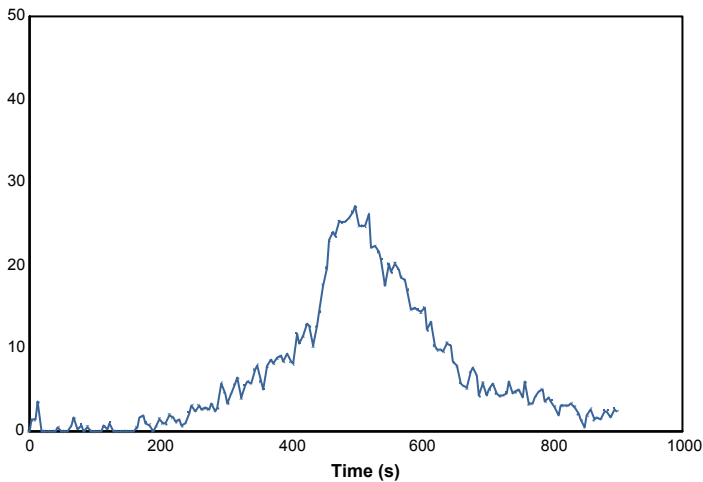
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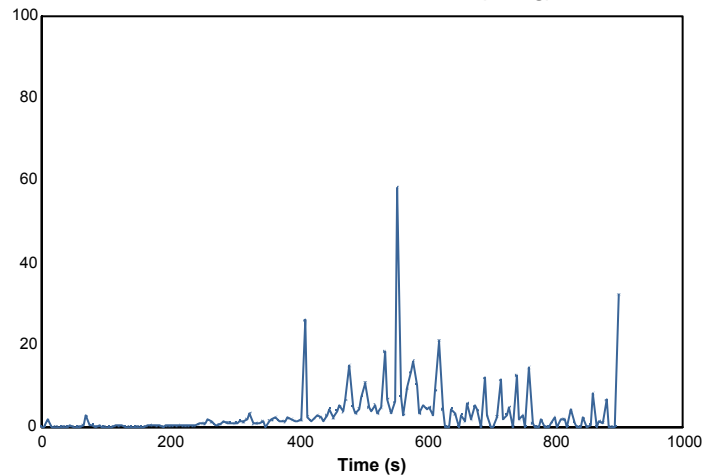
Test Number : 19-004983
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Specimen : 1

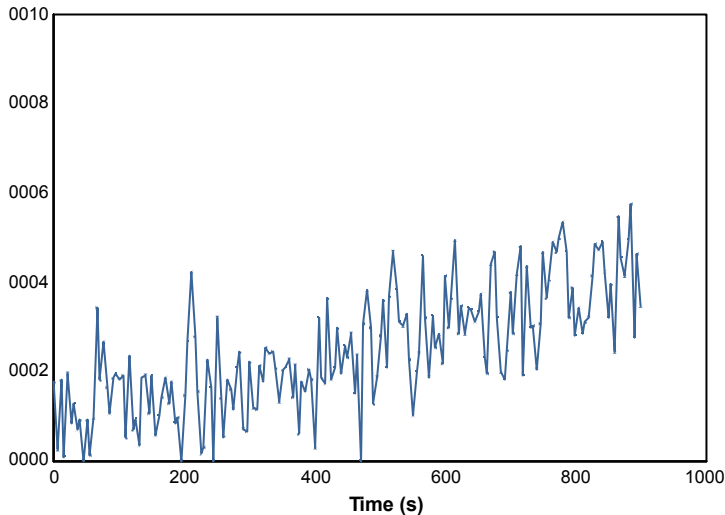
Heat release rate (kW/m²)



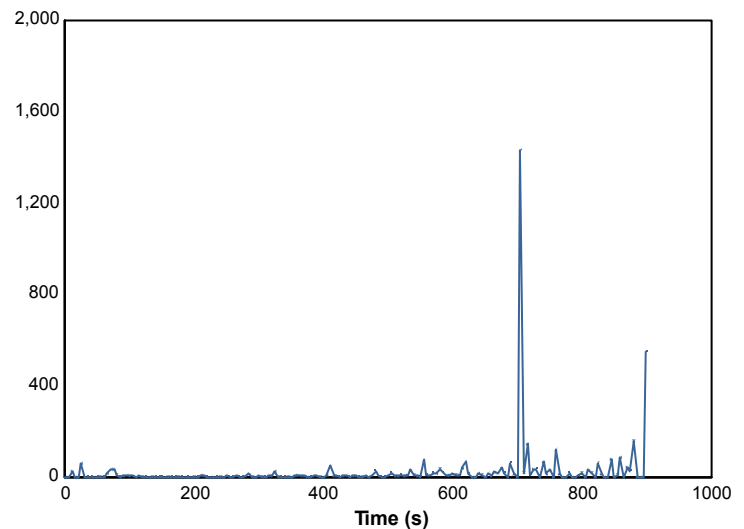
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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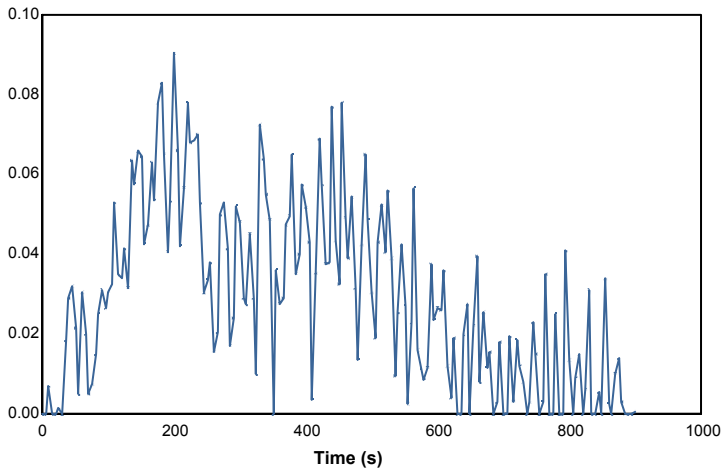
Phone (03) 9371 2400 Fax (03) 9371 2499

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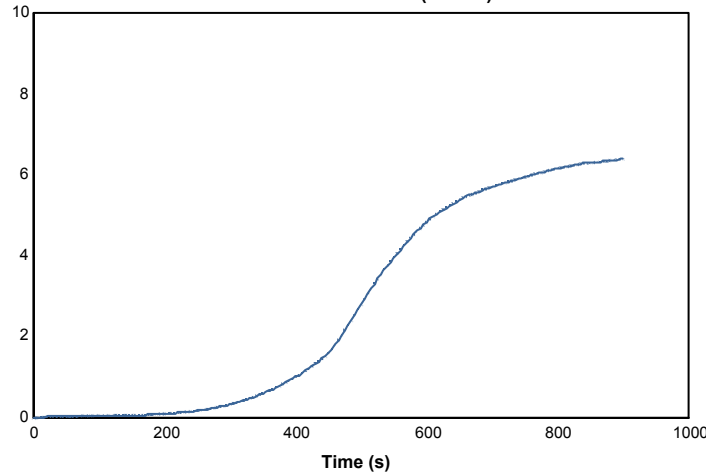
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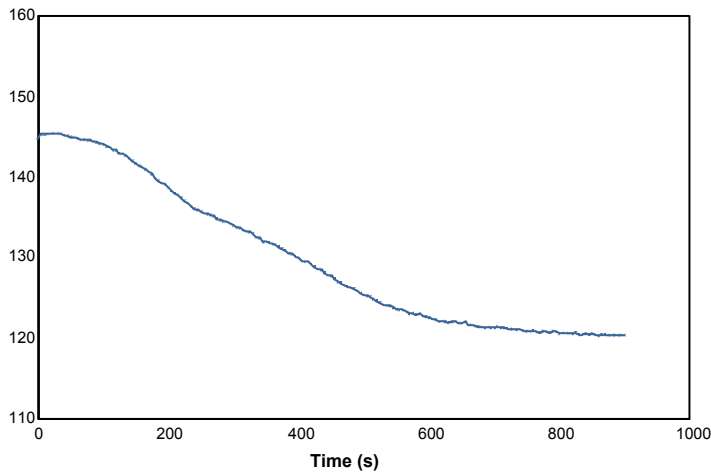
Mass loss rate (g/s)



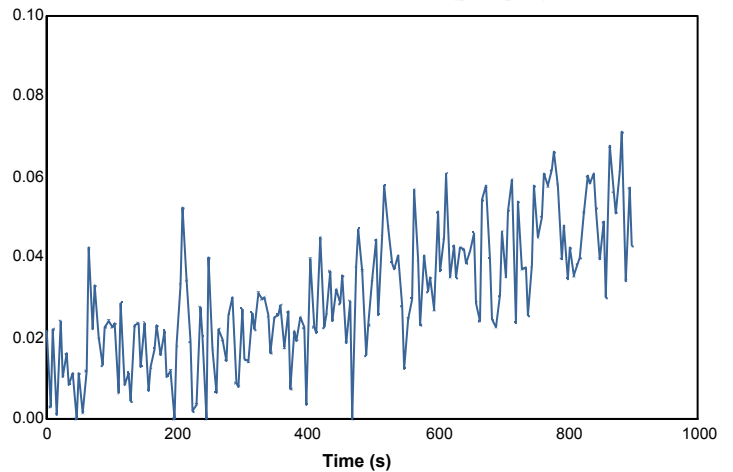
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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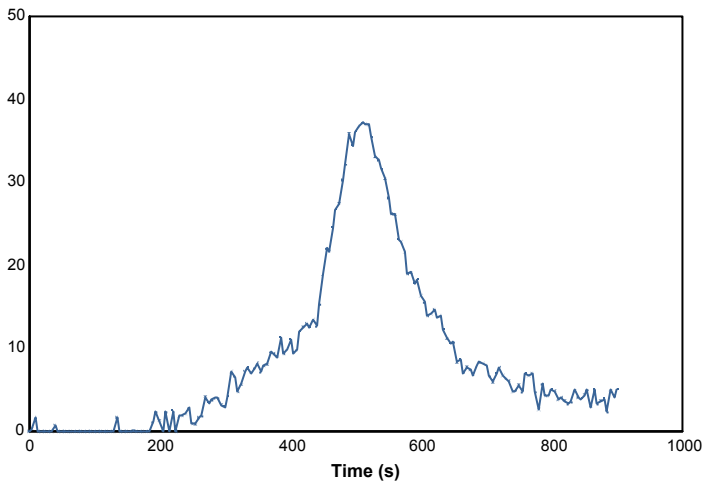
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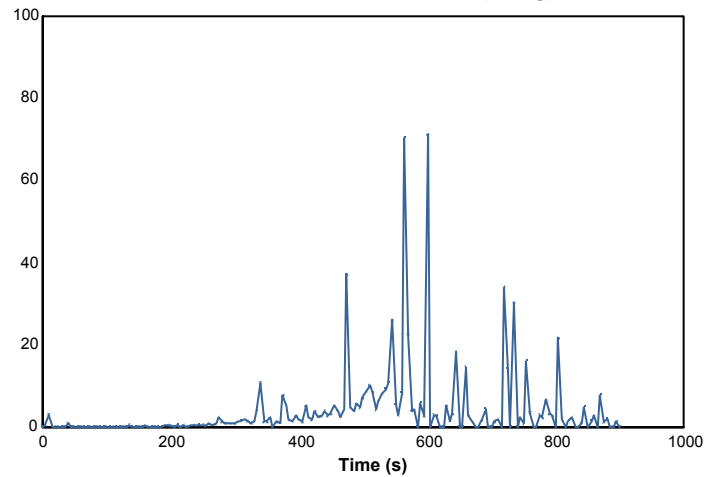
Test Number : 19-004983
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Specimen : 2

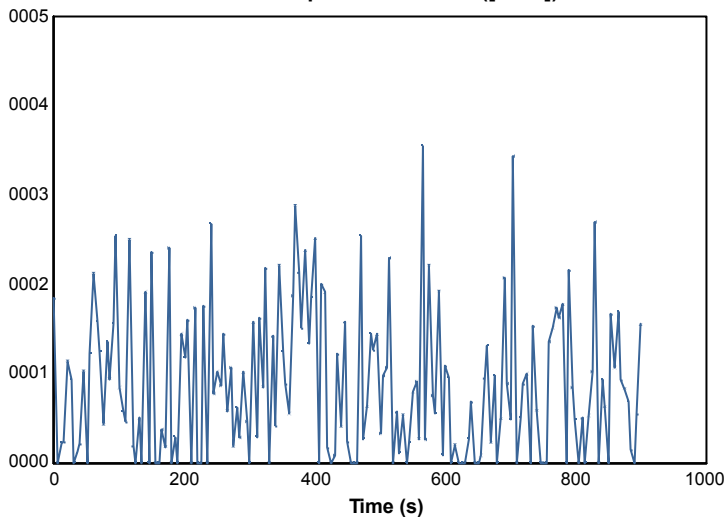
Heat release rate (kW/m²)



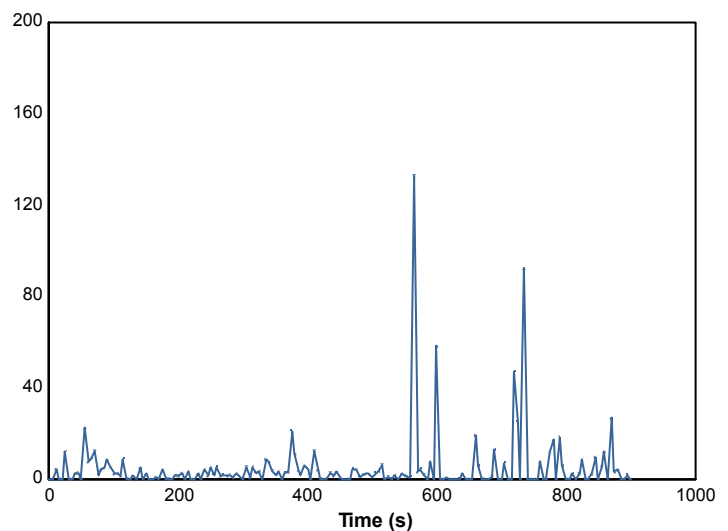
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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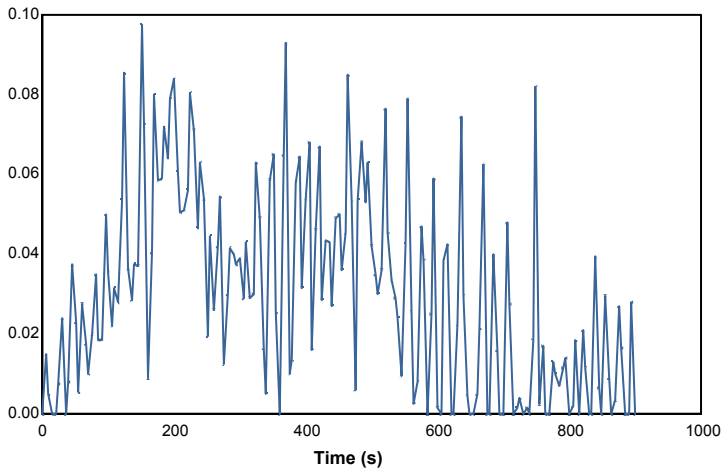
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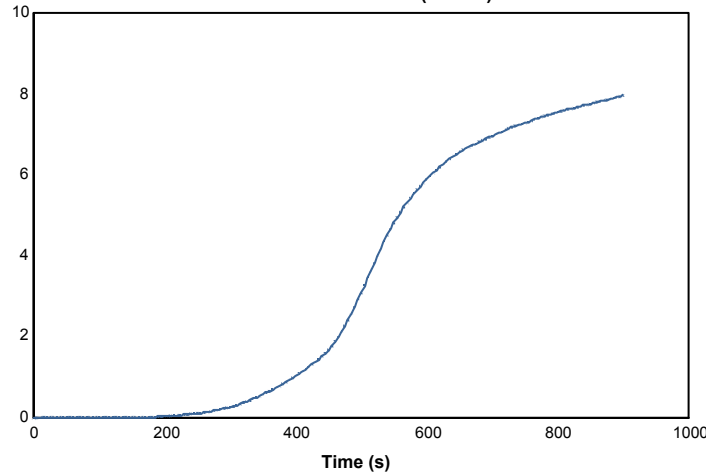
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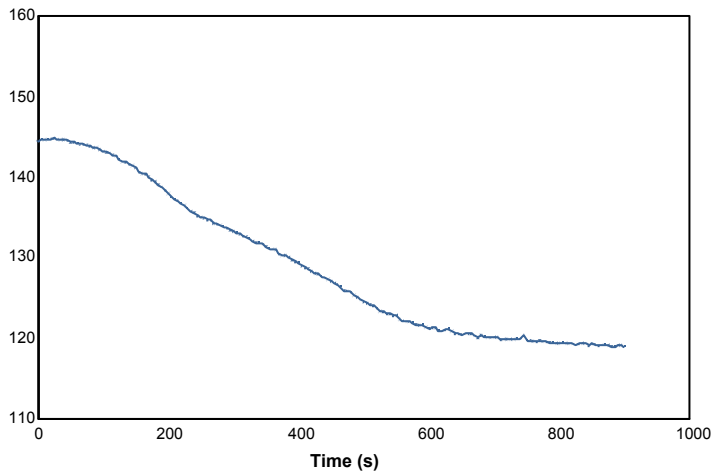
Mass loss rate (g/s)



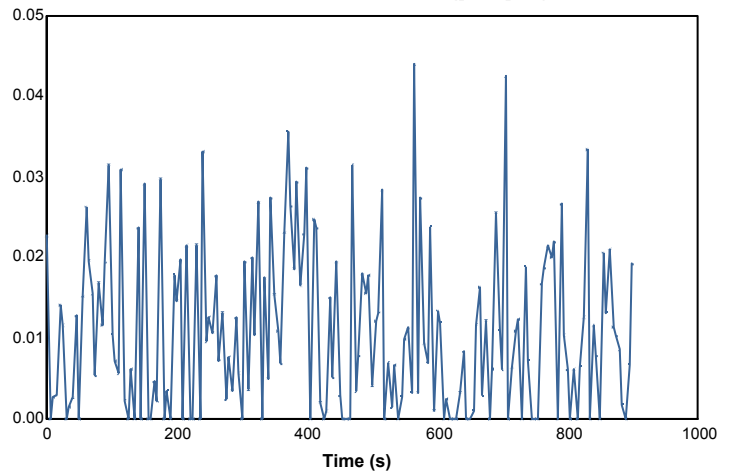
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s)/m²)



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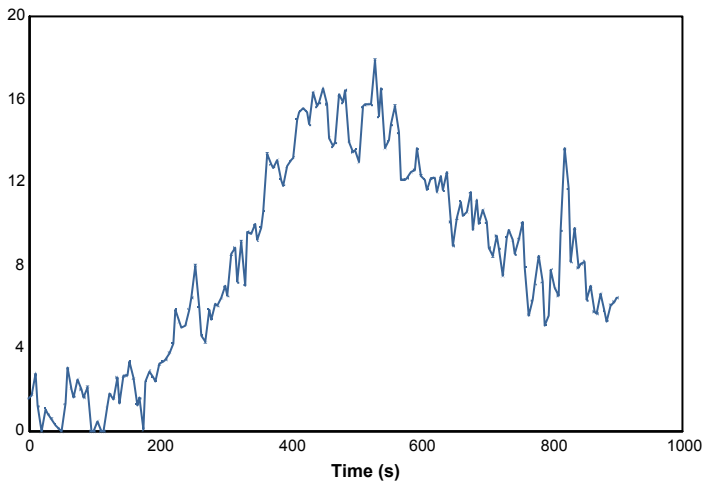
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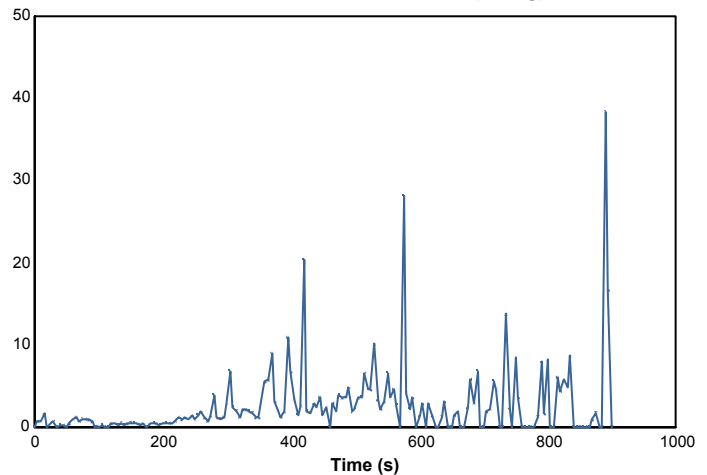
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Specimen : 3

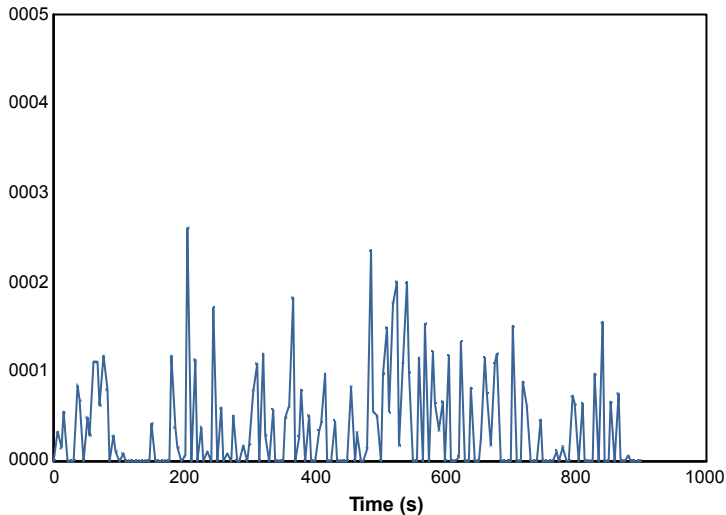
Heat release rate (kW/m²)



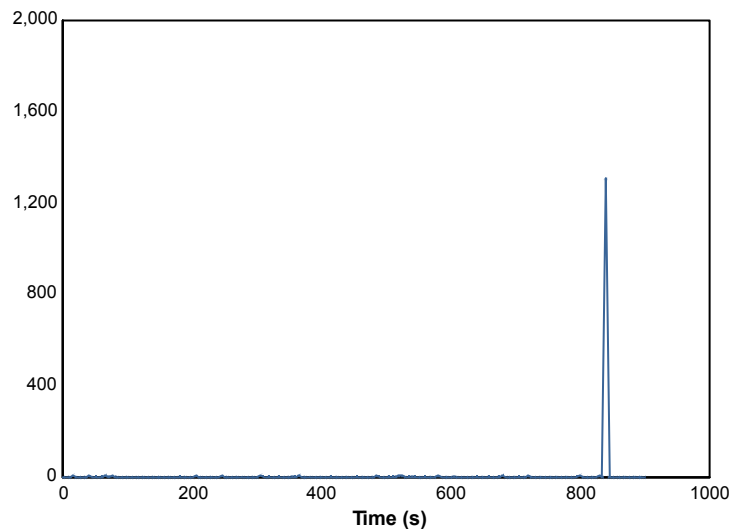
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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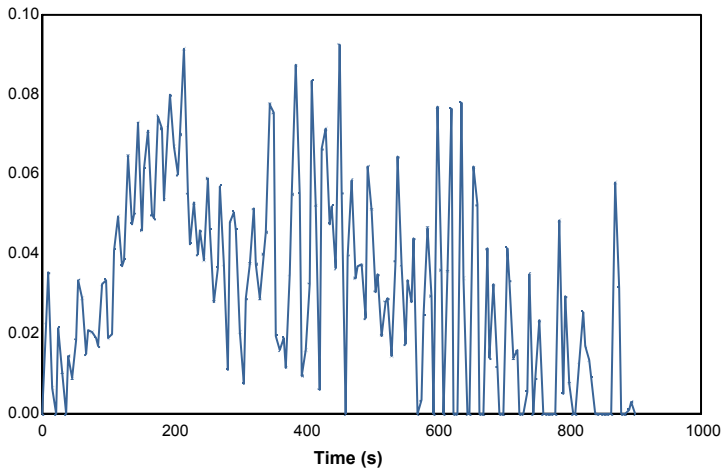
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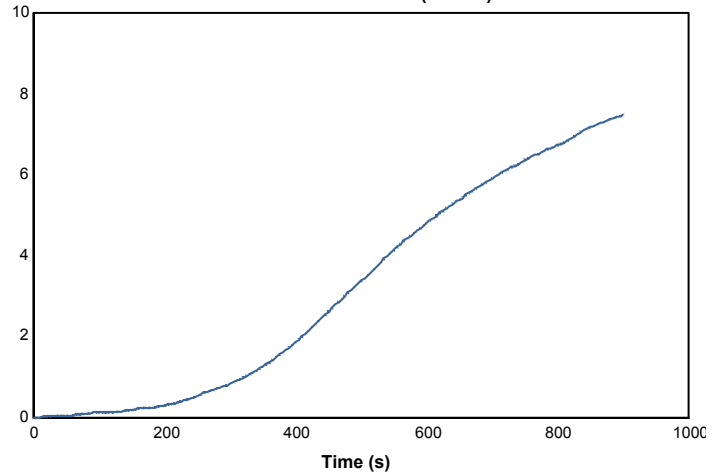
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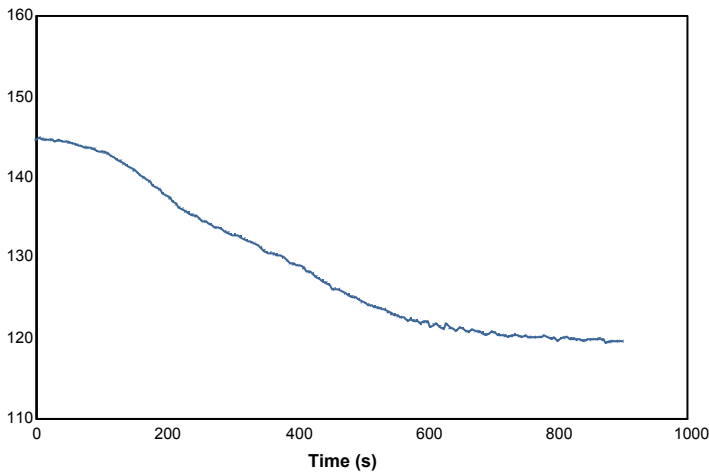
Mass loss rate (g/s)



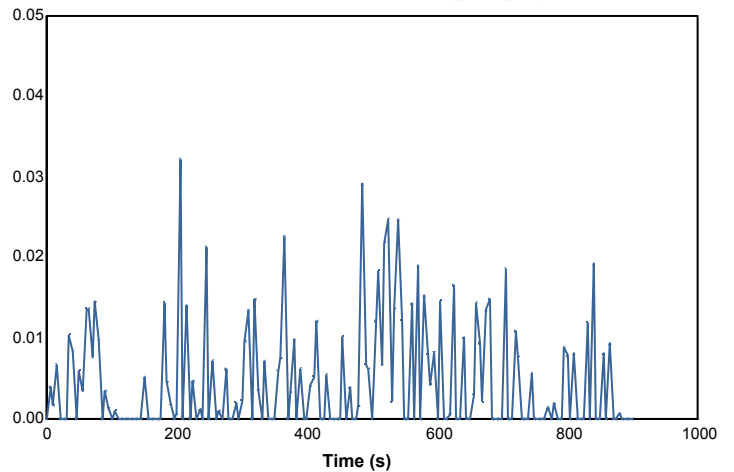
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s)/m²)



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[Signature]
 APPROVED SIGNATORY

[Signature]
 MICHAEL A. JACKSON B.Sc.(Hons)
 MANAGING DIRECTOR

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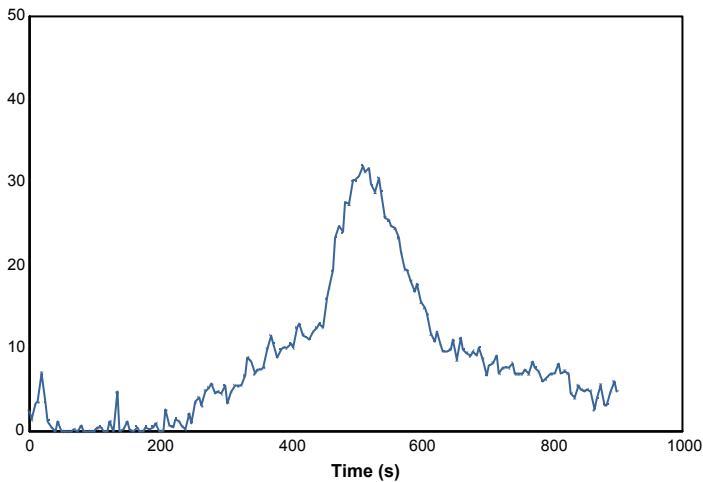
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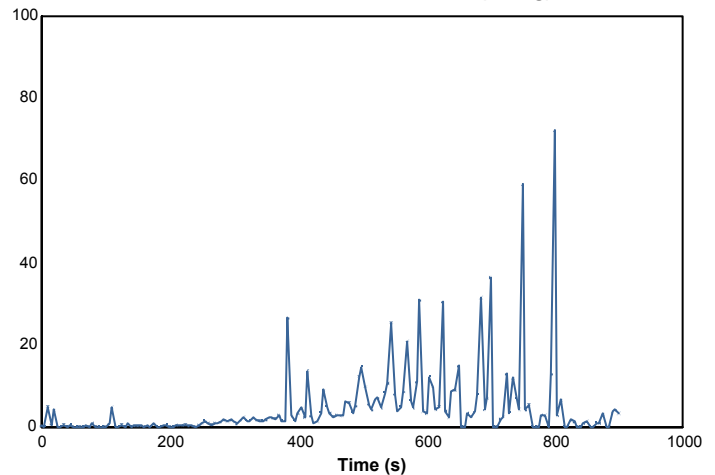
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Specimen : 4

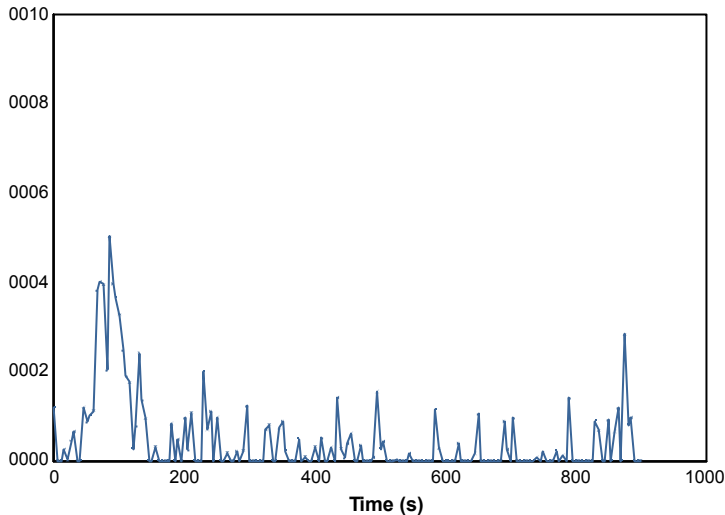
Heat release rate (kW/m²)



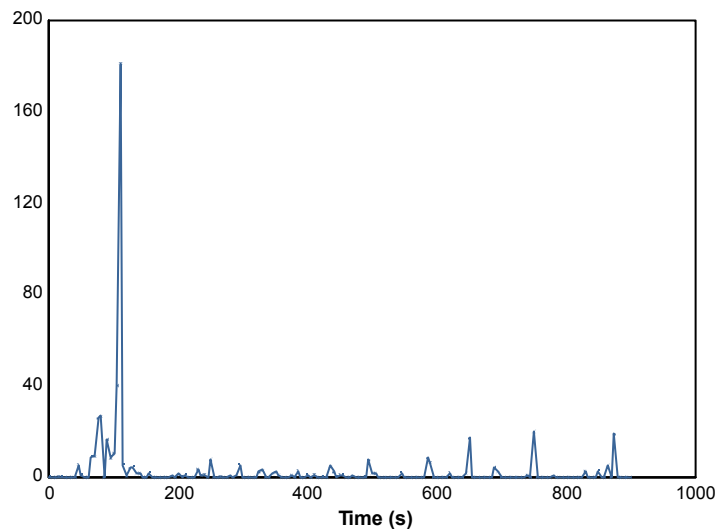
Effective heat of combustion (MJ/kg)



Smoke production rate (l/m²/s)



Specific extinction area (m²/kg)



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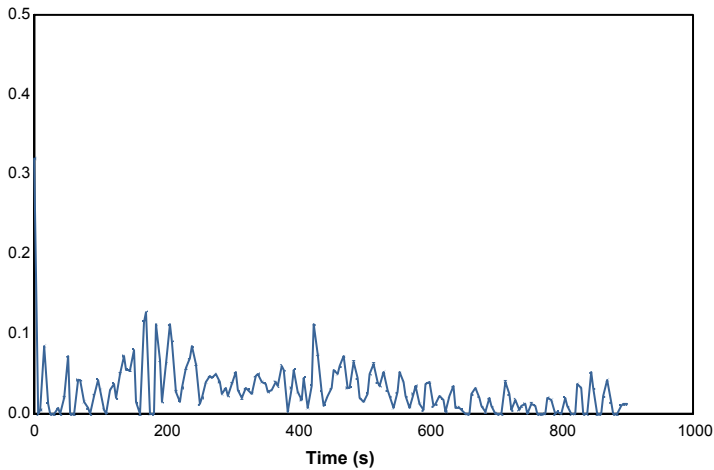
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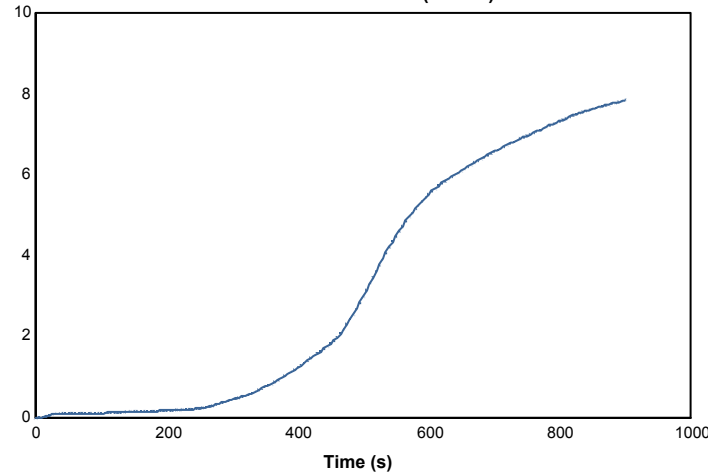
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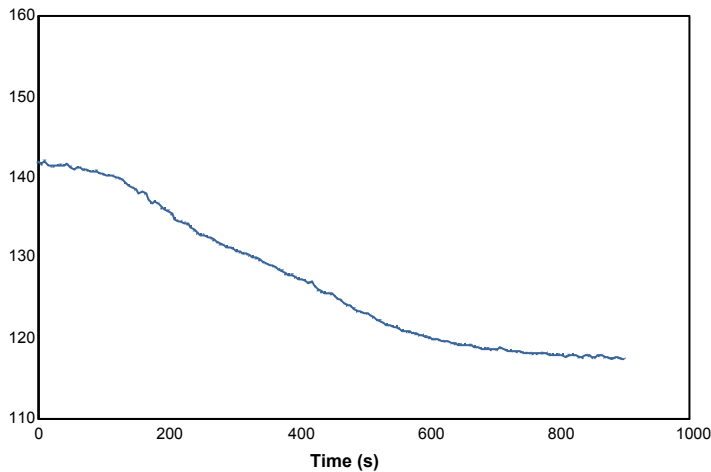
Mass loss rate (g/s)



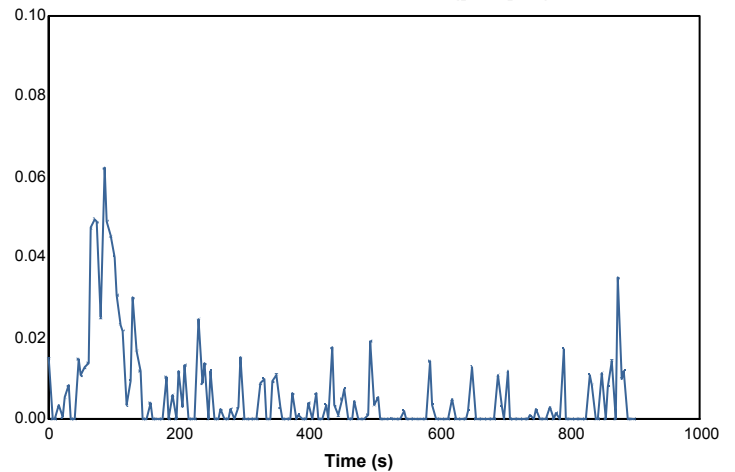
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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- Performance & Approvals Testing

: Accreditation No. 983
: Accreditation No. 985
: Accreditation No. 1356



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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 Fax (03) 9371 2499

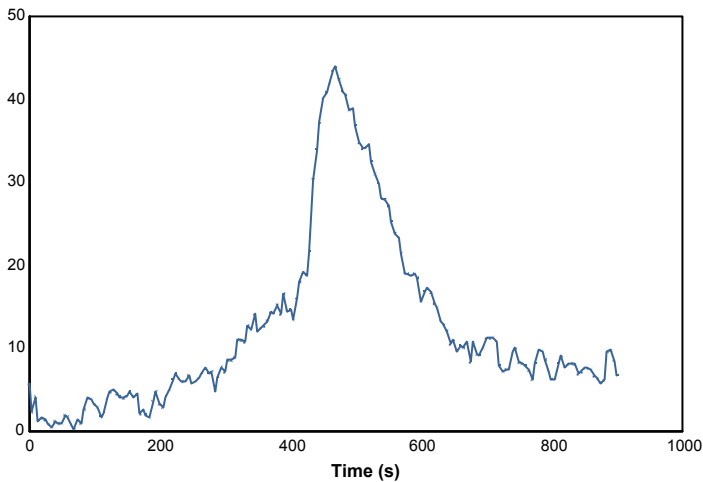
TEST REPORT

Client : Etex Group (Equitone Australia)
Suite 201/198 Harbour Esplanade
Docklands VIC 3008

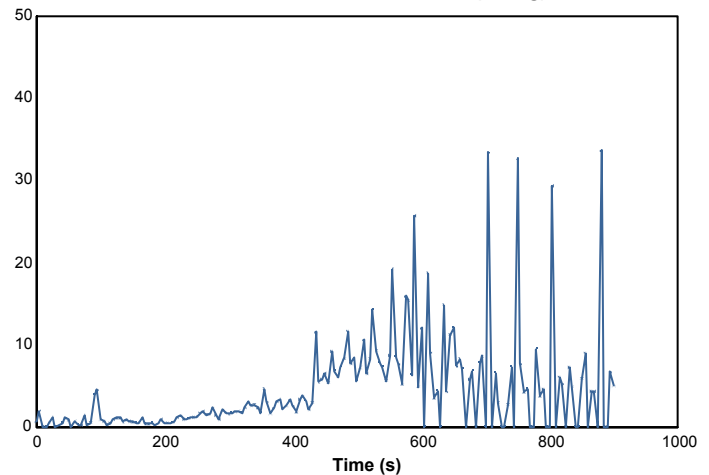
Test Number : 19-004983
Issue Date : 12/09/2019
Print Date : 19/09/2019

Specimen : 5

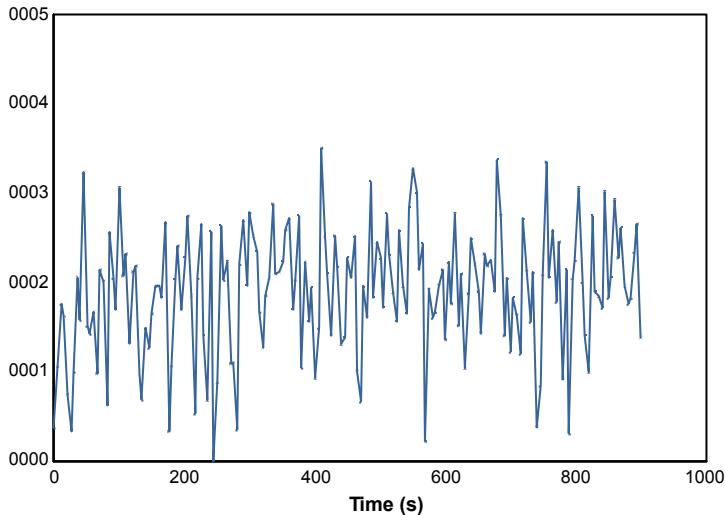
Heat release rate (kW/m²)



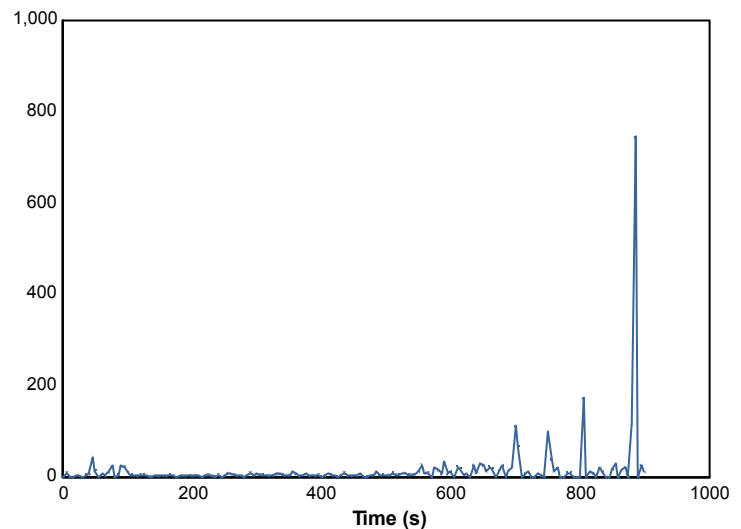
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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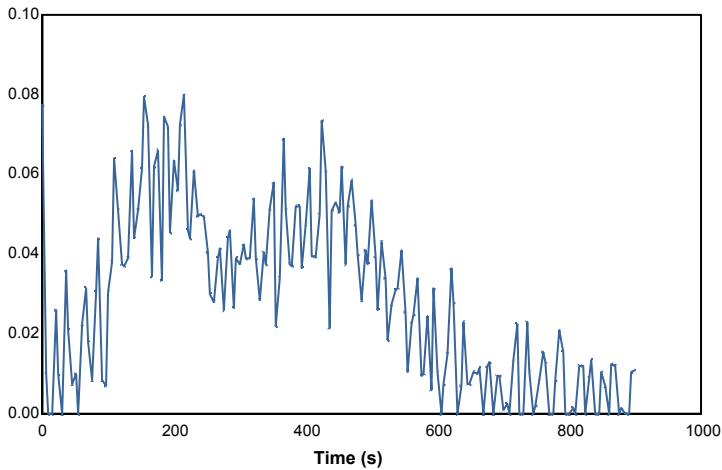
Phone (03) 9371 2400 Fax (03) 9371 2499

TEST REPORT

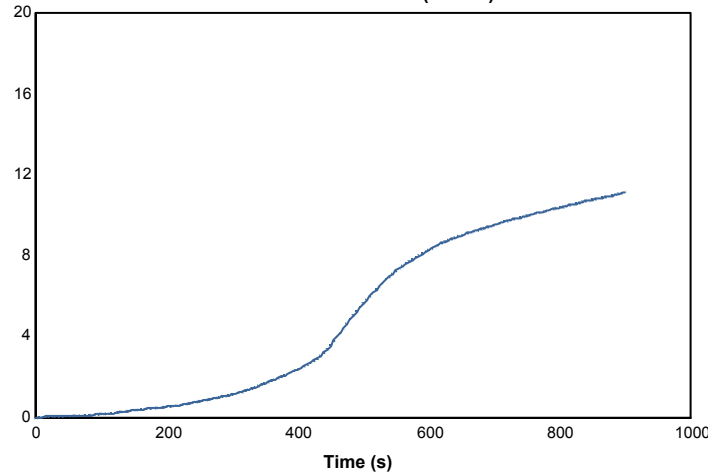
Client : Etex Group (Equitone Australia)
Suite 201/198 Harbour Esplanade
Docklands VIC 3008

Test Number : 19-004983
Issue Date : 12/09/2019
Print Date : 19/09/2019

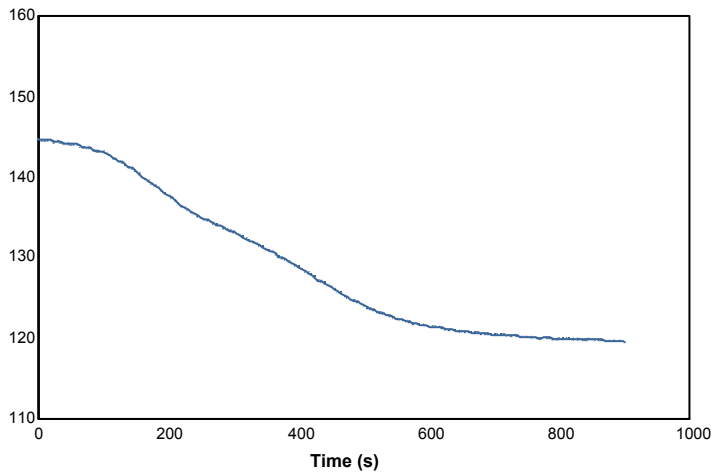
Mass loss rate (g/s)



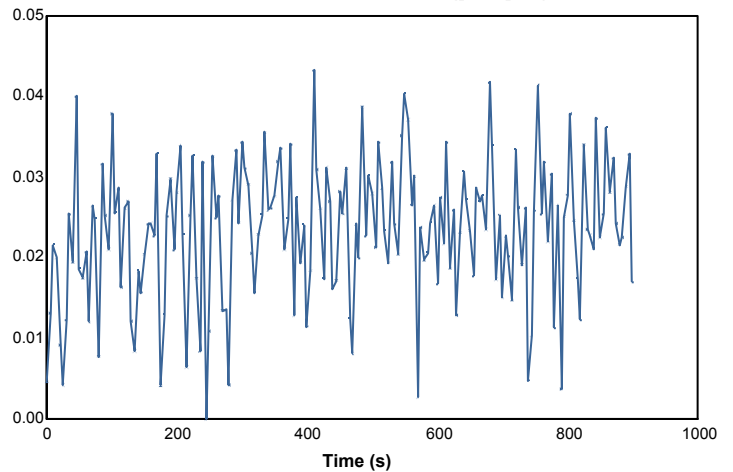
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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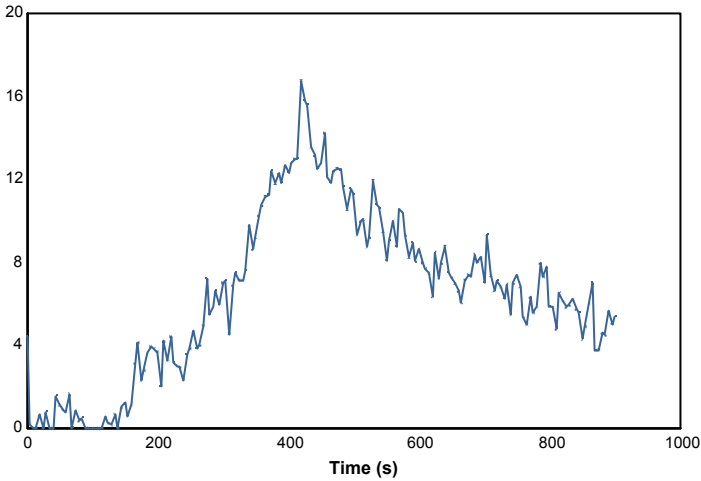
TEST REPORT

Client : Etex Group (Equitone Australia)
Suite 201/198 Harbour Esplanade
Docklands VIC 3008

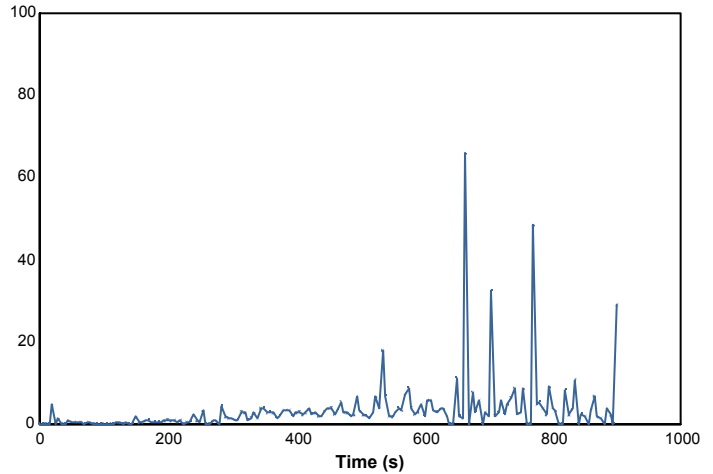
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Issue Date : 12/09/2019
Print Date : 19/09/2019

Specimen : 6

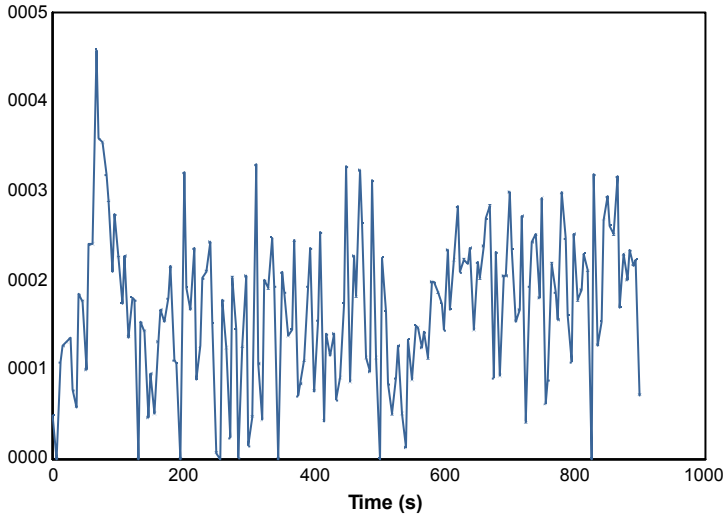
Heat release rate (kW/m²)



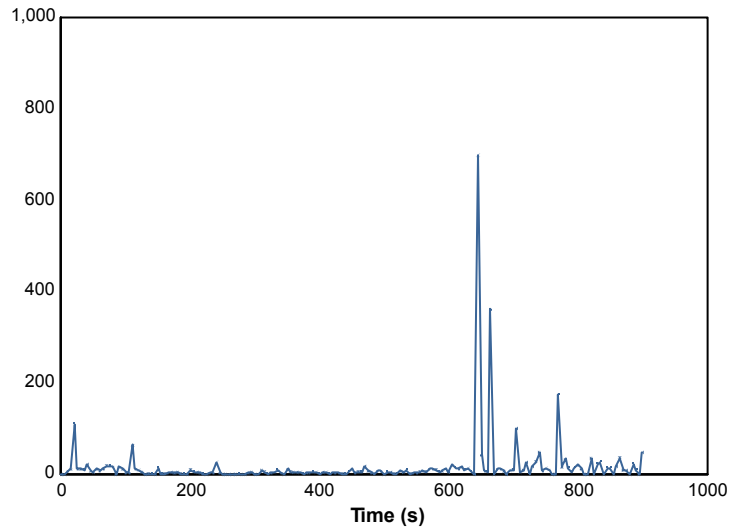
Effective heat of combustion (MJ/kg)



Smoke production rate (l/m²/s)



Specific extinction area (m²/kg)



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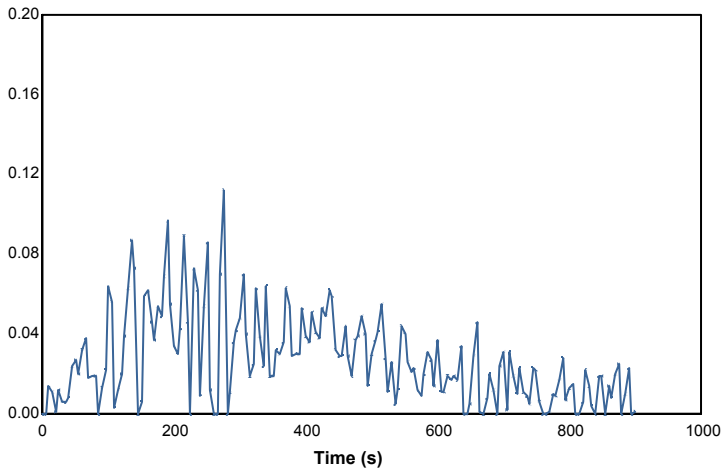
Phone (03) 9371 2400 Fax (03) 9371 2499

TEST REPORT

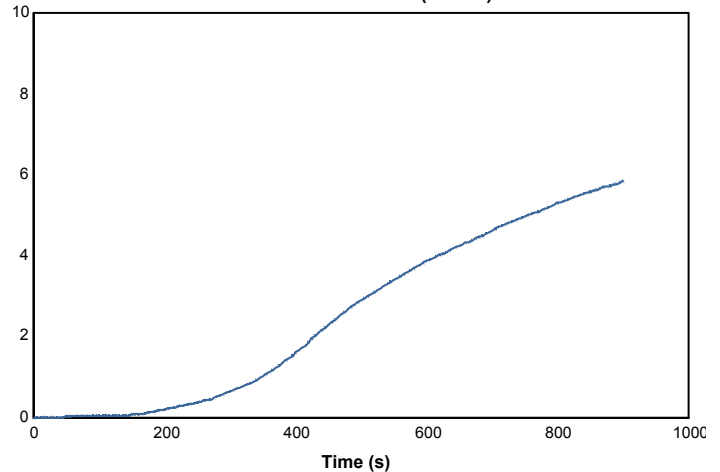
Client : Etex Group (Equitone Australia)
Suite 201/198 Harbour Esplanade
Docklands VIC 3008

Test Number : 19-004983
Issue Date : 12/09/2019
Print Date : 19/09/2019

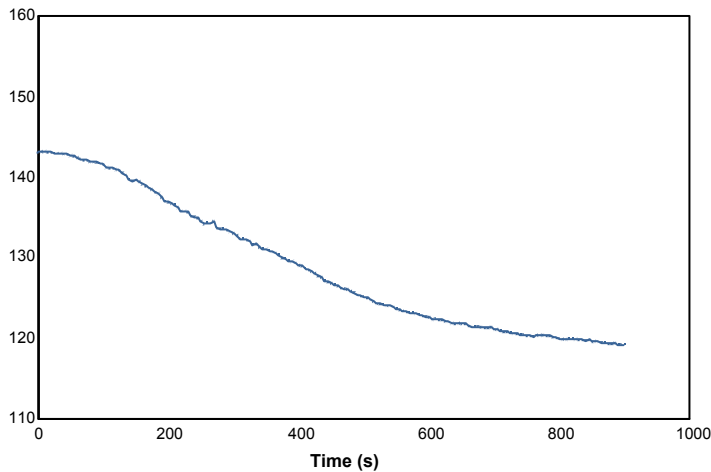
Mass loss rate (g/s)



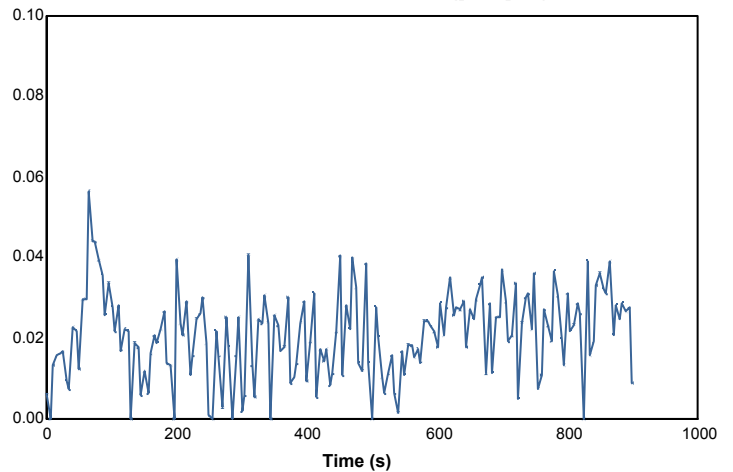
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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