

# 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

## Group Number Assessment

(In accordance with AS 5637.1-2015)

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

Testing was performed in accordance with AS/NZS 3837-1998 Method of test for heat and smoke release rates for materials and products using an oxygen consumption calorimeter.

**Test Sponsor :** Armstrong Flooring Pty Ltd  
29-39 Mills Road  
Braeside VIC 3195

**Test Number :** 15-000102  
**Issue Date :** 10/02/2015  
**Print Date :** 6/04/2017

### Sponsor Product

Clients Ref : "Accolade Plus / Accolade Safe / Infinity / Infinity Safe"

2mm Accolade Plus/Accolade Safe adhered to 6mm Cement sheet

Colour : White

End Use : Wall Cladding

Nominal Composition : Supplied to AWTA Product testing in confidence

Nominal Thickness : 2mm

Product Group Number Classification : 3

Average Specific Extinction Area : 145.6 m<sup>2</sup>/kg



Chris Campbell  
Client Relations Manager

2640

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## TEST REPORT

**Client :** Armstrong World Industries (Australia) Pty Ltd  
29-39 Mills Road  
Braeside VIC 3195

**Test Number :** 15-000102  
**Issue Date :** 10/02/2015  
**Print Date :** 10/02/2015  
**Order Number :** 112285

**Sample Description** Clients Ref : "Accolade Plus / Accolade Safe / Infinity / Infinity Safe"  
2mm Accolade Plus/Accolade Safe adhered to 6mm Cement sheet  
Colour : White  
End Use : Wall Cladding  
Nominal Composition : Supplied to AWTA Product testing in confidence  
Nominal Thickness : 2mm

### AS/NZS 3837-1998

Method of Test for Heat and Smoke Release Rates for Materials and Products using an Oxygen Consumption Calorimeter

	Specimen				
	1	2	3	Mean	
Average Heat Release Rate	56.9	49.2	47.6	51.2	kW/m <sup>2</sup>
Average Specific extinction area	181.2	120.3	135.3	145.6	m <sup>2</sup> /kg

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

Test orientation : Horizontal

	Specimen				
	1	2	3	Mean	
Irradiance	50	50	50	50	kW/m <sup>2</sup>
Exhaust flow rate	24	24	24	24	L/sec
Time to sustained flaming	21	27	19	22	sec
Test duration	684	808	808	767	sec
Peak heat release after ignition	110.7	99.8	108.9	106.5	kW/m <sup>2</sup>
Average heat at 60 s	90.6	83.7	85.7	86.7	kW/m <sup>2</sup>
Average heat at 180 s	85.9	72.6	80.8	79.8	kW/m <sup>2</sup>
Average heat at 300 s	72.9	62.8	68.2	68.0	kW/m <sup>2</sup>
Total heat released	37.6	38.4	37.5	37.8	MJ/m <sup>2</sup>
Average effective heat of combustion	10.9	11.1	10.8	10.9	MJ/kg

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- Chemical Testing of Textiles & Related Products	: Accreditation No.	983
- Mechanical Testing of Textiles & Related Products	: Accreditation No.	985
- Heat & Temperature Measurement	: Accreditation No.	1356

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**Client :** Armstrong World Industries (Australia) Pty Ltd  
29-39 Mills Road  
Braeside VIC 3195

**Test Number :** 15-000102  
**Issue Date :** 10/02/2015  
**Print Date :** 10/02/2015  
**Order Number :** 112285

Initial thickness	8.0	8.0	8.0	8.0	mm
Initial mass	125	125.1	123.6	124.6	g
Mass remaining	97.0	97.0	95.4	96.5	g
Mass percentage pyrolysed	22.4	22.5	22.8	22.6	%
Mass loss	28.0	28.1	28.2	28.1	g
Average rate of mass loss	5.2	4.4	4.4	4.7	g/m <sup>2</sup> .s

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.

Samples were tested as assembled and supplied by client.

The results of these fire tests may be used to directly assess fire hazard, but it should be recognised that a single test method will not provide a full assessment of fire hazard under all fire conditions.

The results reported herein shall not be used to derive a Group Number in accordance with the NCC without undertaking validation of the performance that is predicted.

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

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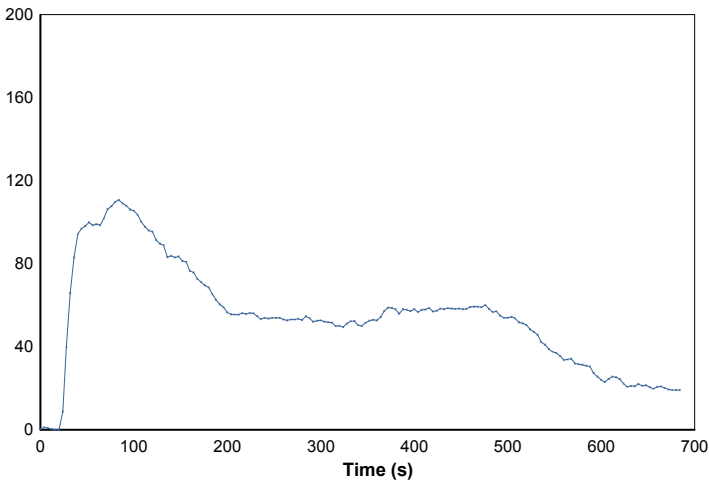
## TEST REPORT

**Client :** Armstrong World Industries (Australia) Pty Ltd  
29-39 Mills Road  
Braeside VIC 3195

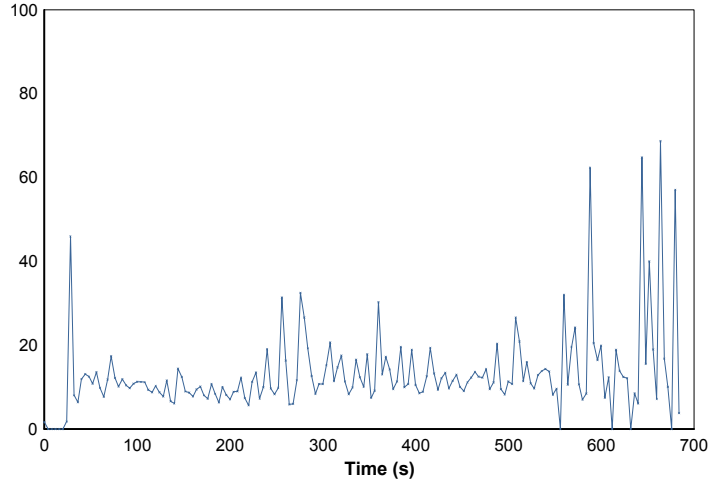
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**Issue Date :** 10/02/2015  
**Print Date :** 10/02/2015  
**Order Number :** 112285

**Specimen :** 1

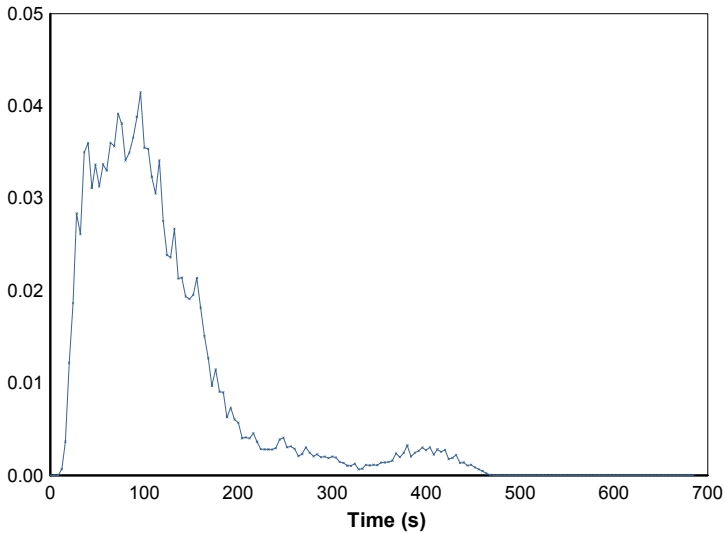
**Heat release rate (kW/m<sup>2</sup>)**



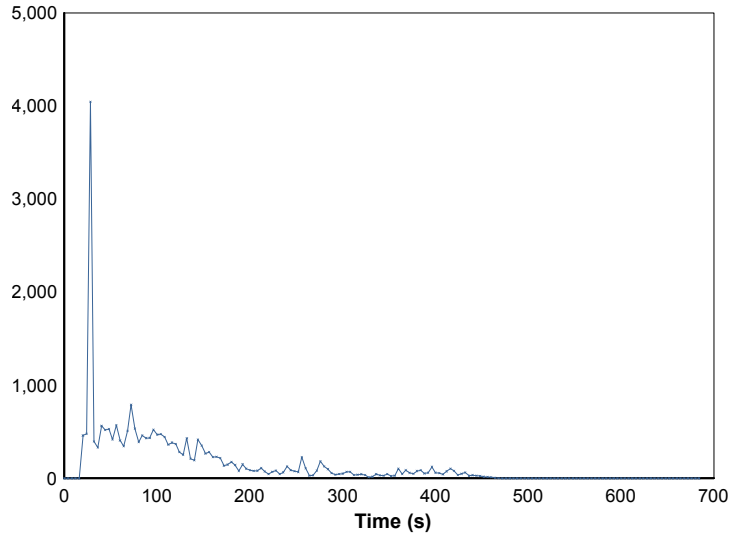
**Effective heat of combustion (MJ/kg)**



**Smoke production rate ([m<sup>2</sup>/s])**



**Specific extinction area (m<sup>2</sup>/kg)**



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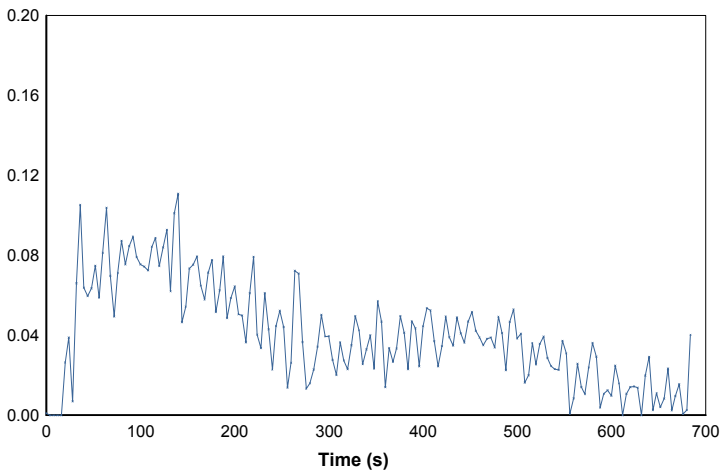
1st Floor, 191 Racecourse Road, Flemington, Victoria 3031  
P.O Box 240, North Melbourne, Victoria 3051  
Phone (03) 9371 2400 Fax (03) 9371 2499

## TEST REPORT

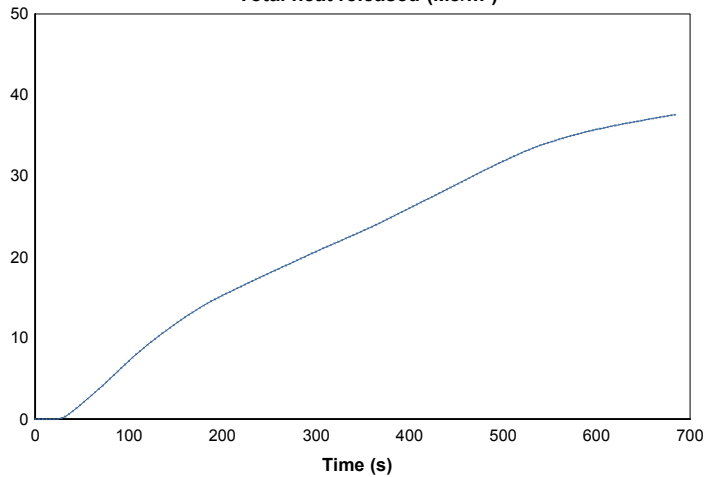
**Client :** Armstrong World Industries (Australia) Pty Ltd  
29-39 Mills Road  
Braeside VIC 3195

**Test Number :** 15-000102  
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**Print Date :** 10/02/2015  
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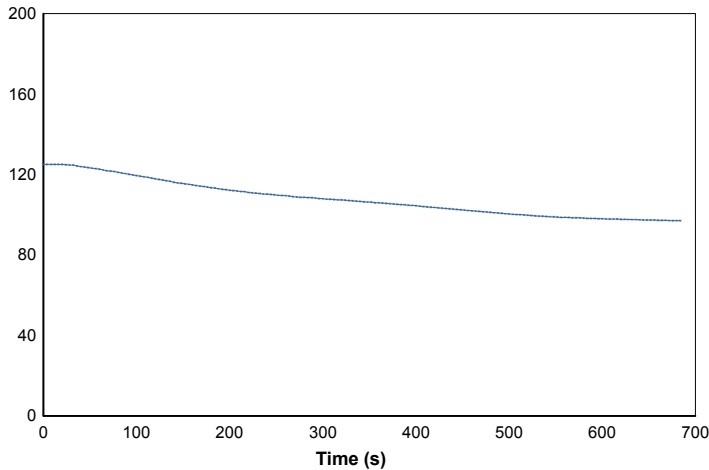
Mass loss rate (g/s)



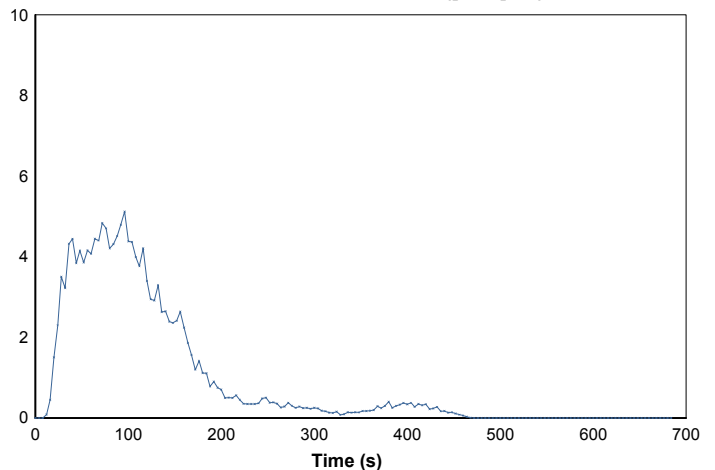
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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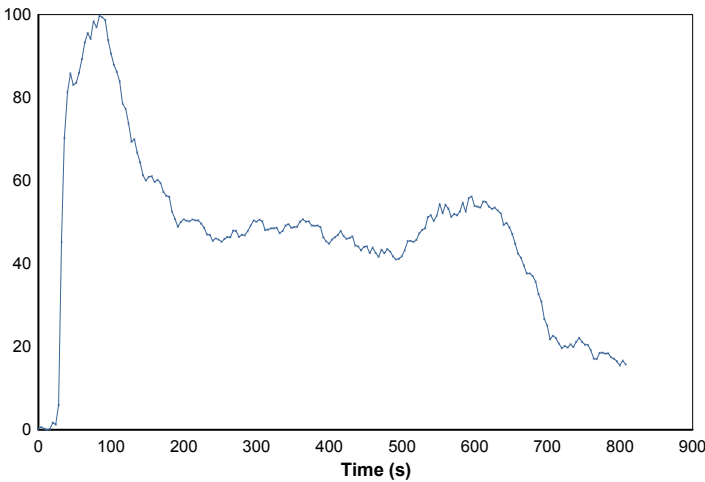
## TEST REPORT

**Client :** Armstrong World Industries (Australia) Pty Ltd  
29-39 Mills Road  
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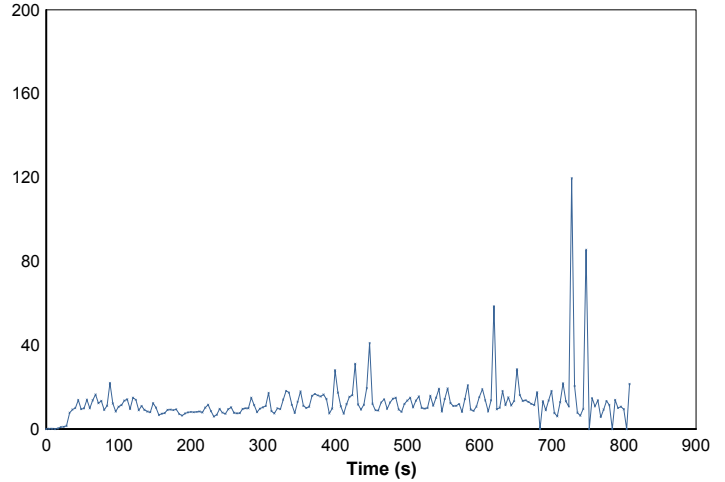
**Test Number :** 15-000102  
**Issue Date :** 10/02/2015  
**Print Date :** 10/02/2015  
**Order Number :** 112285

**Specimen :** 2

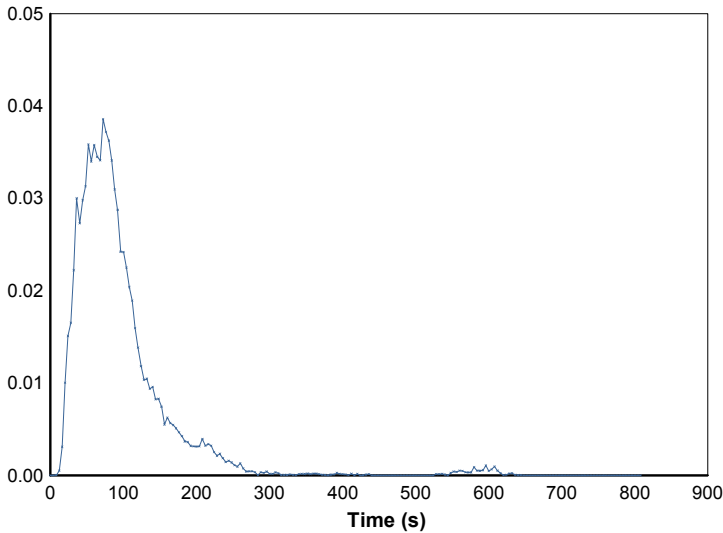
**Heat release rate (kW/m<sup>2</sup>)**



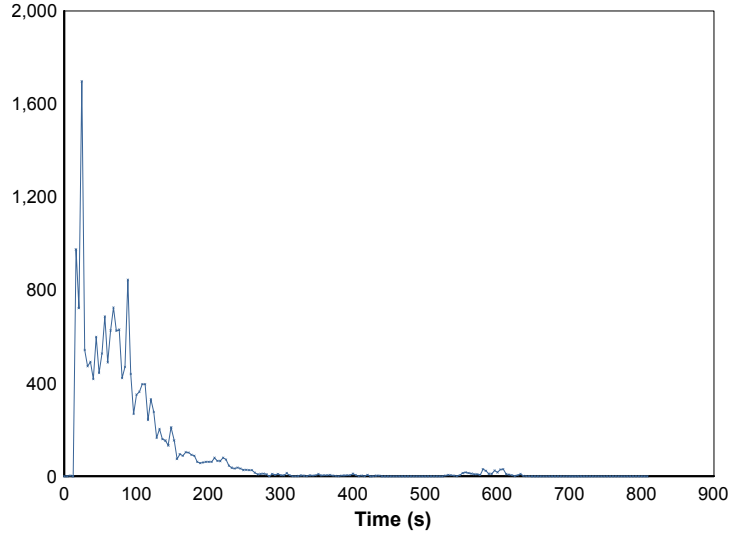
**Effective heat of combustion (MJ/kg)**



**Smoke production rate (l/m<sup>2</sup>/s)**



**Specific extinction area (m<sup>2</sup>/kg)**



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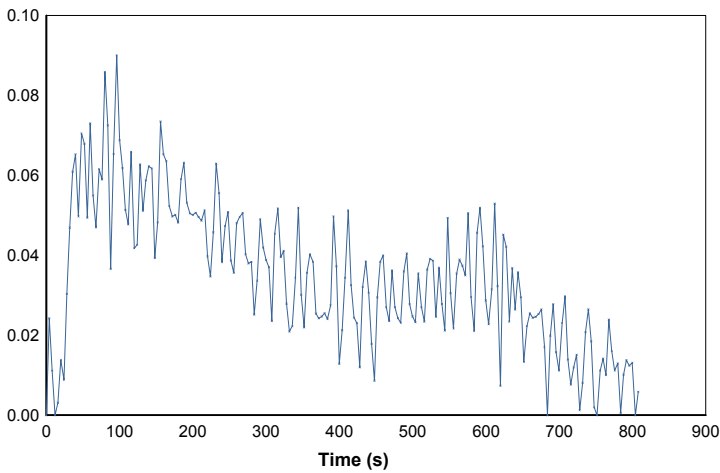
1st Floor, 191 Racecourse Road, Flemington, Victoria 3031  
P.O Box 240, North Melbourne, Victoria 3051  
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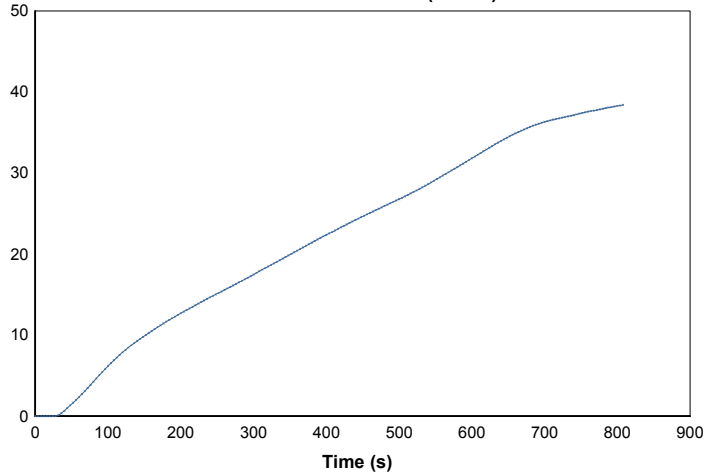
**Client :** Armstrong World Industries (Australia) Pty Ltd  
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**Test Number :** 15-000102  
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**Order Number :** 112285

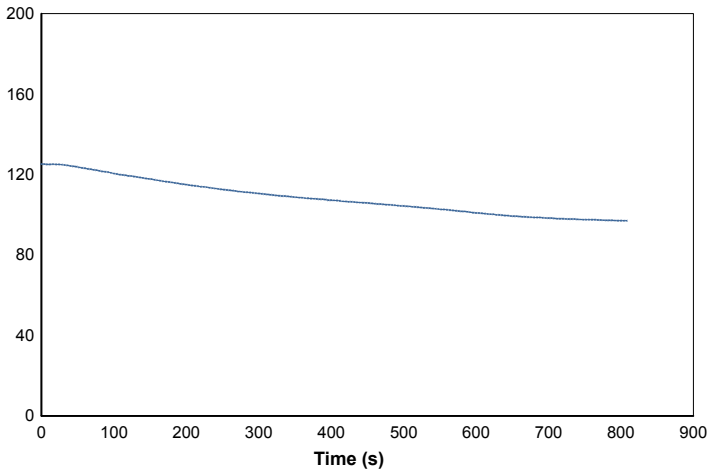
Mass loss rate (g/s)



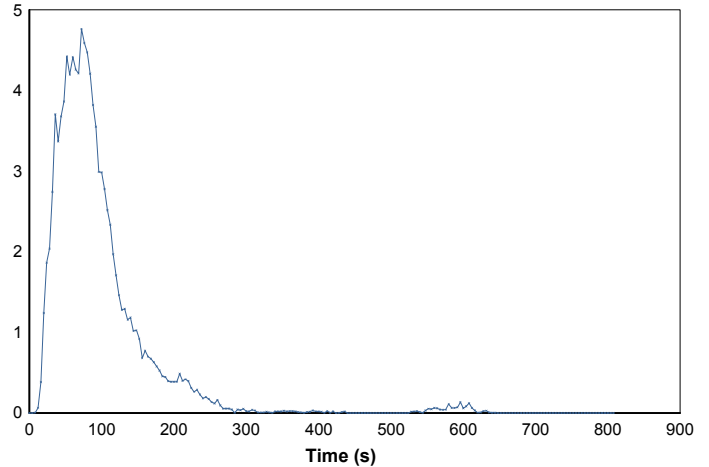
Total heat released (MJ/m<sup>2</sup>)



Mass (g)



Rate of smoke release ([m<sup>2</sup>/s)/m<sup>2</sup>)



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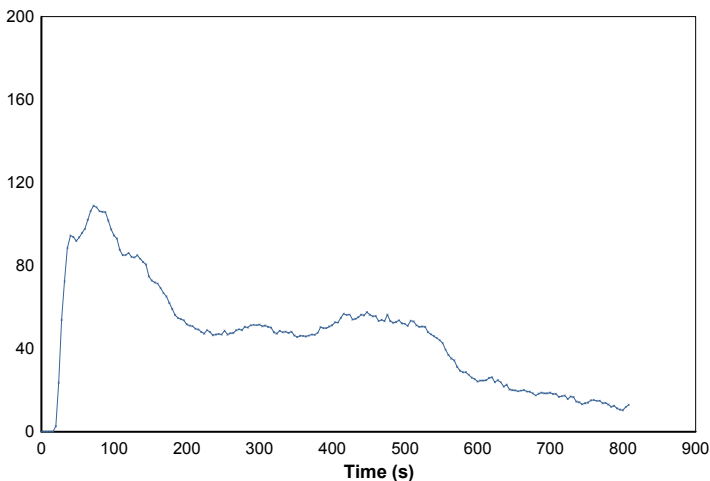
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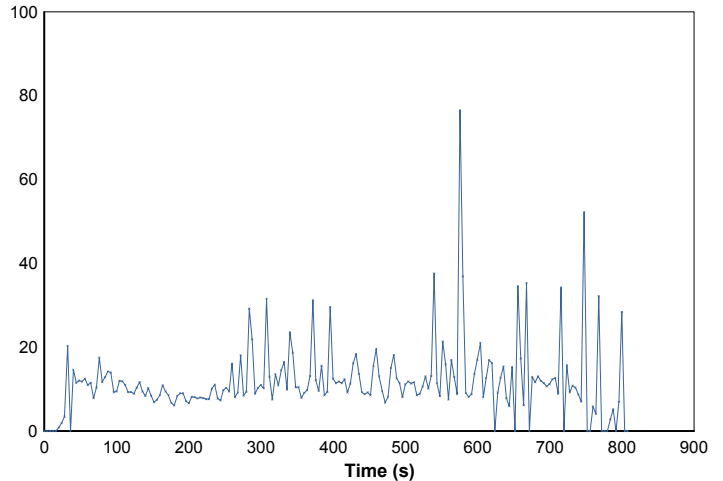
**Test Number :** 15-000102  
**Issue Date :** 10/02/2015  
**Print Date :** 10/02/2015  
**Order Number :** 112285

**Specimen :** 3

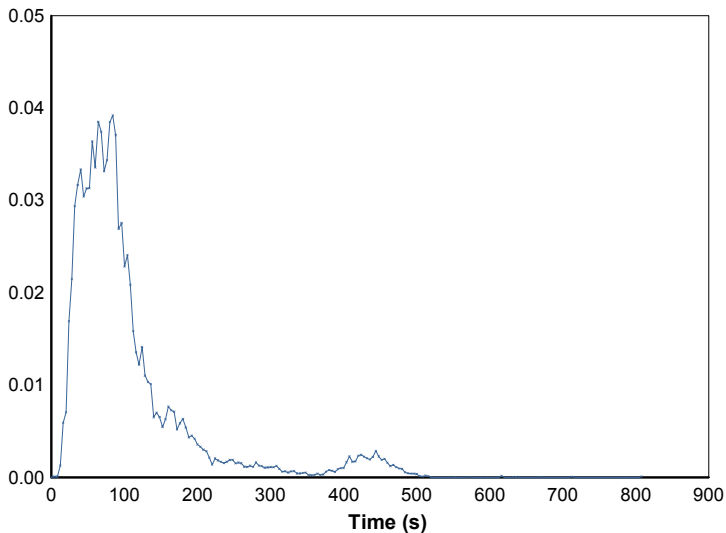
**Heat release rate (kW/m<sup>2</sup>)**



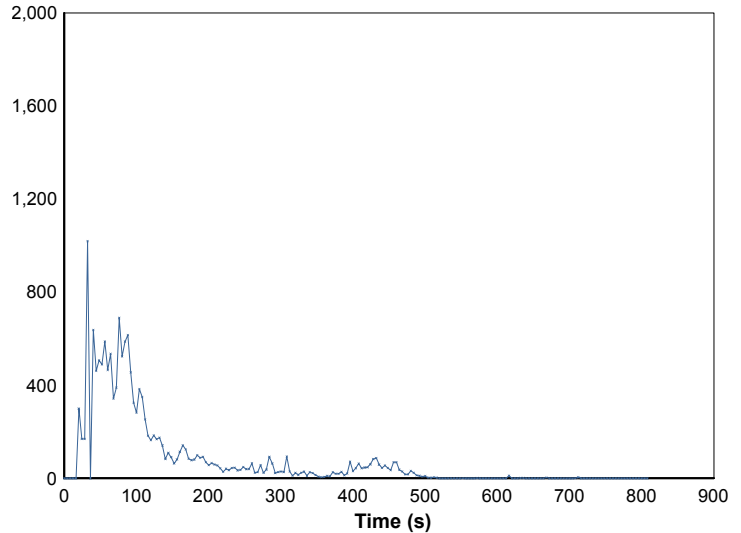
**Effective heat of combustion (MJ/kg)**



**Smoke production rate (l/m<sup>2</sup>/s)**



**Specific extinction area (m<sup>2</sup>/kg)**



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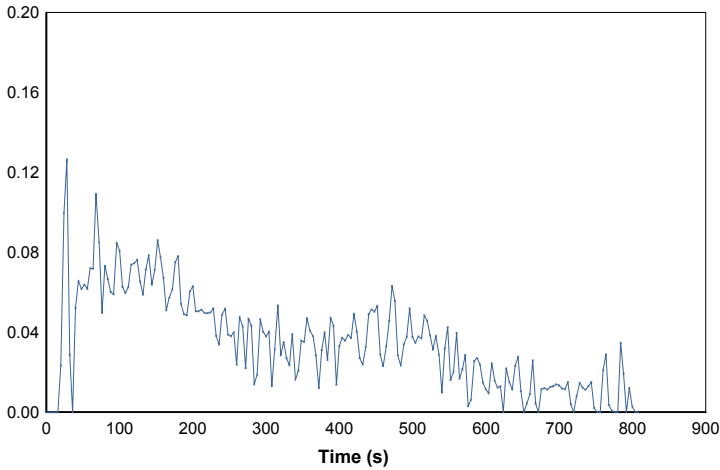
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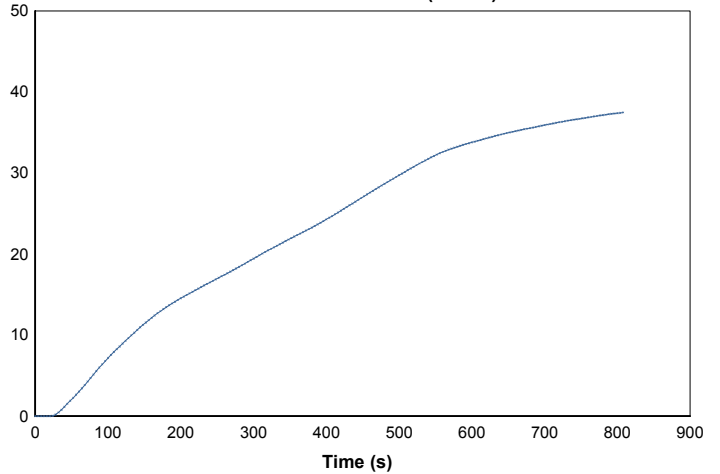
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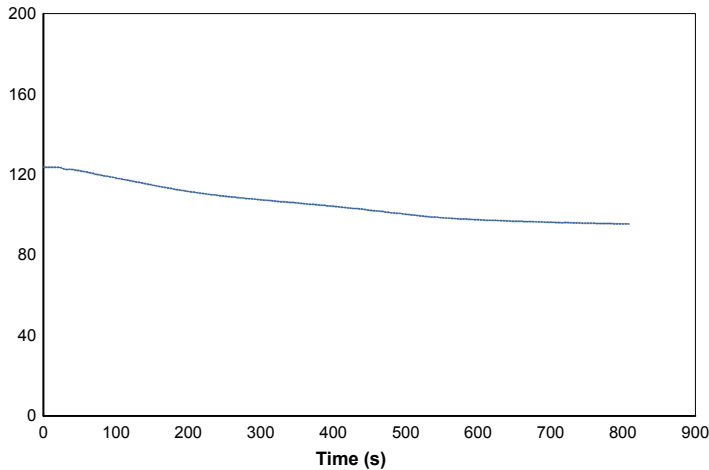
Mass loss rate (g/s)



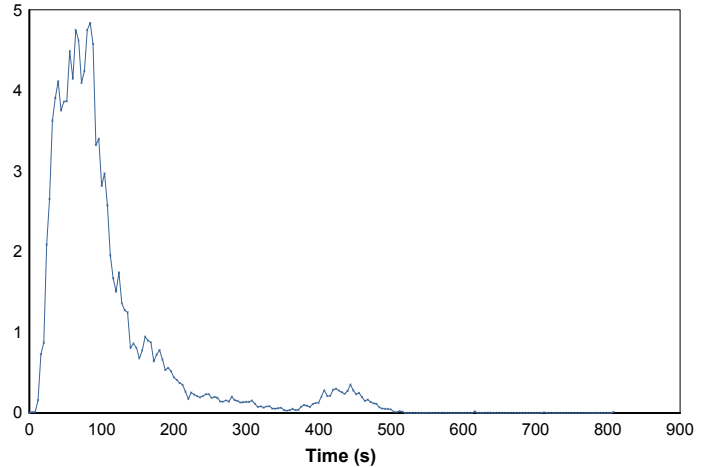
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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