

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 : Kvadrat A/S
Lundbergsvej 10
Ebeltoft 8400 Denmark
Denmark

Test Number : 16-006688
Issue Date : 10/01/2017
Print Date : 11/01/2017

Sample Description Clients Ref : "Floyd"
Woven fabric
Colour : Red
Nominal Composition : 50% Polyester 45% Wool 5% Nylon
Nominal Mass per Unit Area/Density : Approx: 280g/m²
Nominal Thickness : Approx: 1mm

AS/NZS 3837-1998

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

	Specimen				Mean	
	1	2	3			
Average Heat Release Rate	40.3	41.1	41.3	40.9	kW/m ²	
Average Specific extinction area	41.5	37.1	42.0	40.2	m ² /kg	

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

Test orientation : Horizontal

	Specimen				Mean	
	1	2	3			
Irradiance	50	50	50	50	kW/m ²	
Exhaust flow rate	24	24	24	24	L/sec	
Time to sustained flaming	9	8	9	9	sec	
Test duration	225	222	213	220	sec	
Peak heat release after ignition	151.5	150.3	146.1	149.3	kW/m ²	
Average heat at 60 s	97.5	96.6	93.8	96.0	kW/m ²	
Average heat at 180 s	45.2	45.4	44.4	45.0	kW/m ²	
Average heat at 300 s	n/a	n/a	n/a	n/a	kW/m ²	
Total heat released	8.7	8.8	8.4	8.6	MJ/m ²	
Average effective heat of combustion	6.6	6.8	6.8	6.7	MJ/kg	

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- Mechanical Testing
- Performance & Approvals Testing

: Accreditation No. 983
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Initial thickness	11.0	11.0	11.0	11.0	mm
Initial mass	61.2	61.4	60.6	61.1	g
Mass remaining	50.3	50.8	50.6	50.5	g
Mass percentage pyrolysed	17.8	17.3	16.6	17.2	%
Mass loss	10.9	10.6	10.0	10.5	g
Average rate of mass loss	6.1	6.1	6.1	6.1	g/m ² .s

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.

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 the fire hazard under all fire conditions.

Samples were loose laid onto a substrate of 10mm thick plasterboard prior to testing.

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

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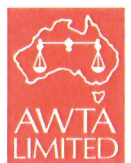
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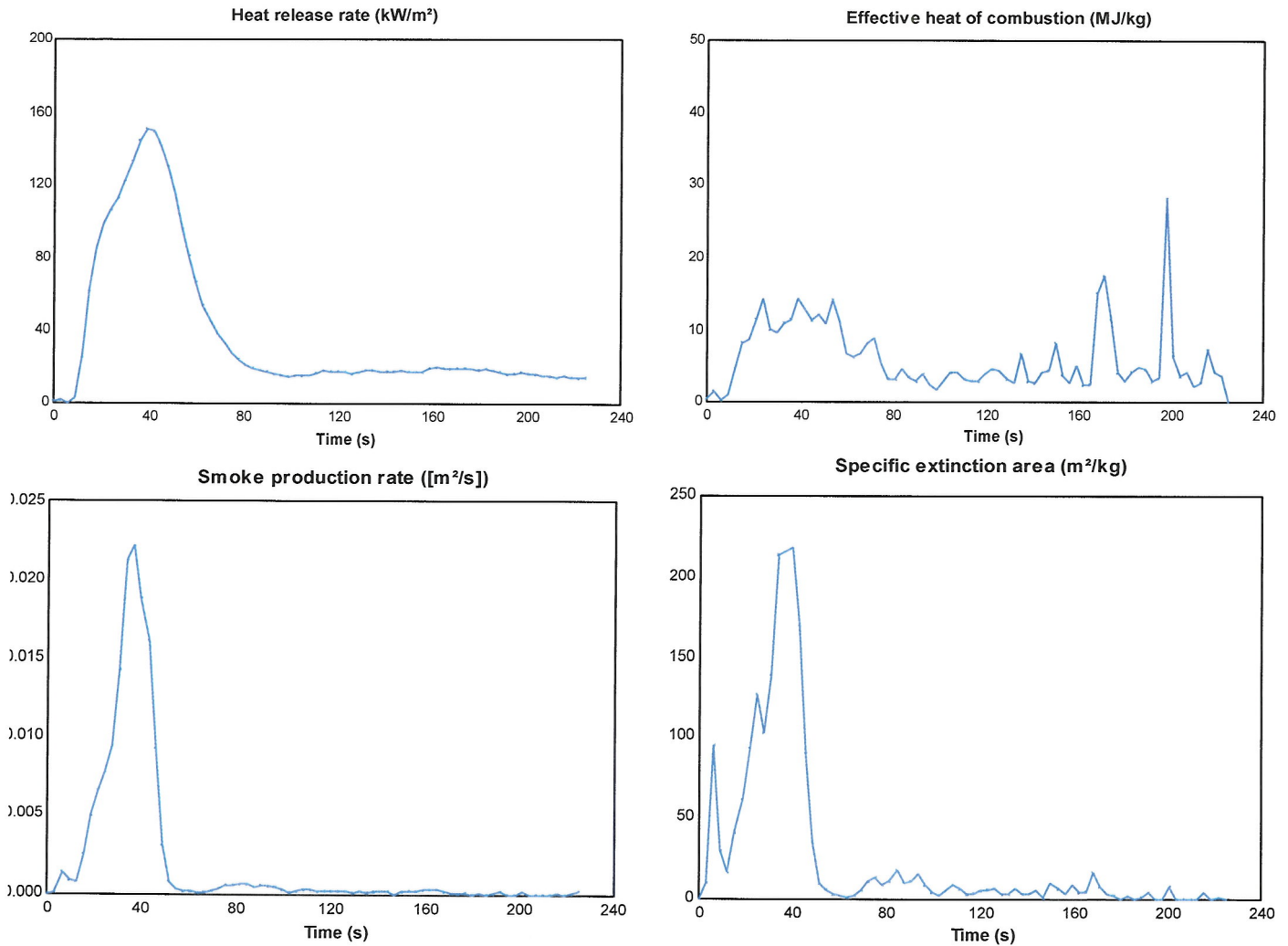
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Specimen : 1



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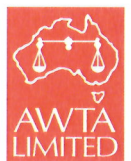
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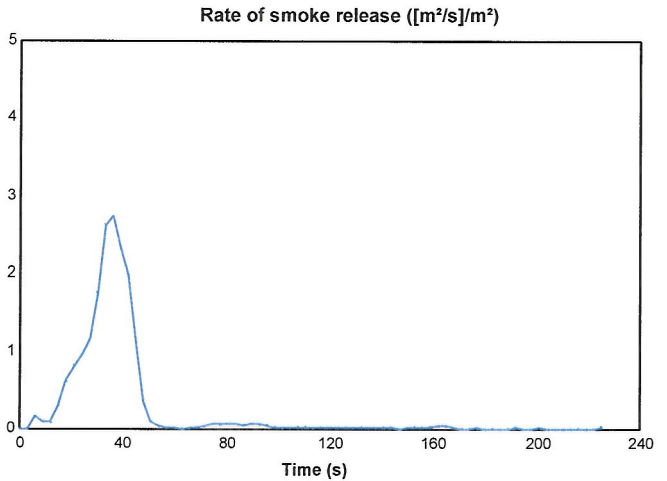
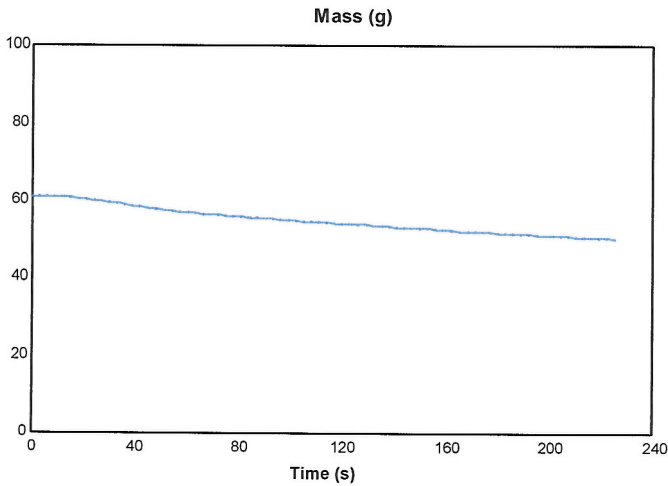
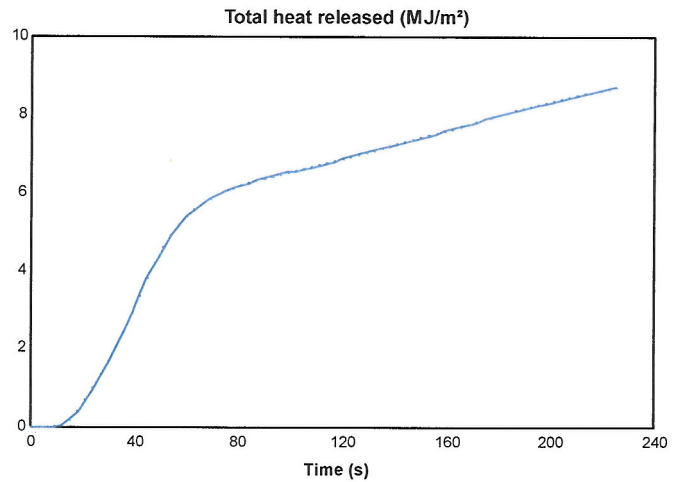
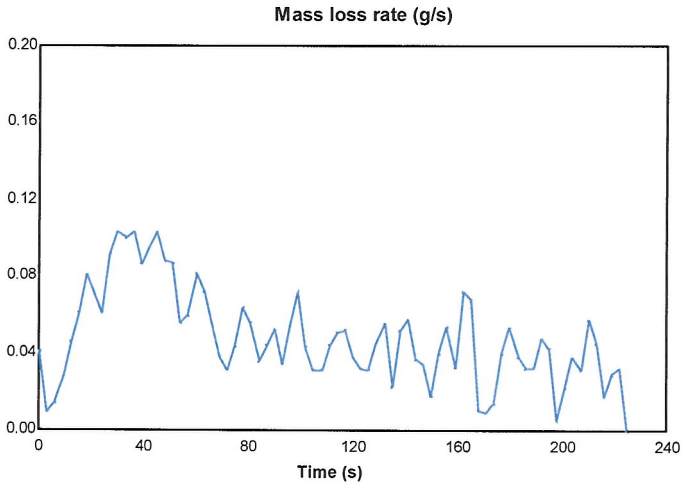
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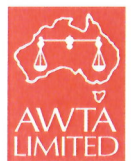
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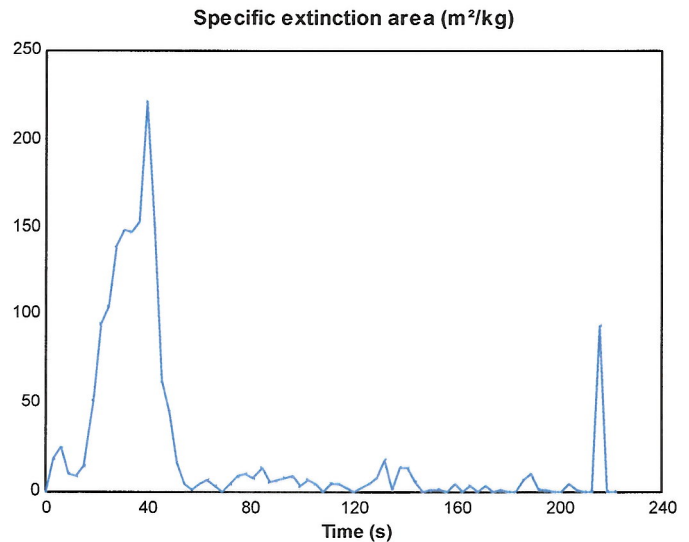
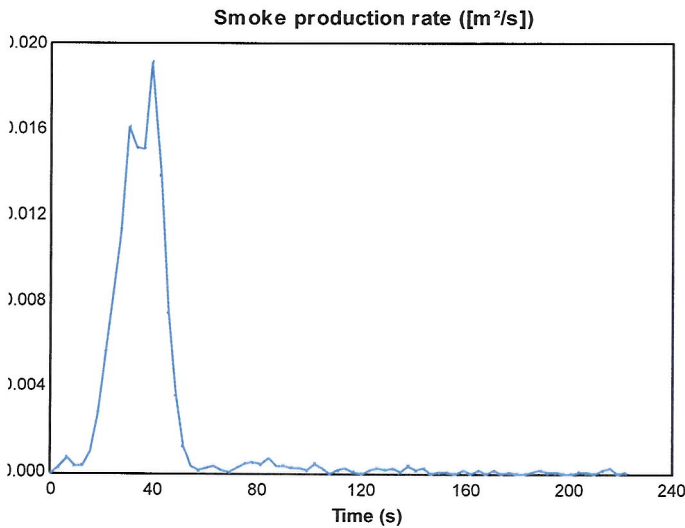
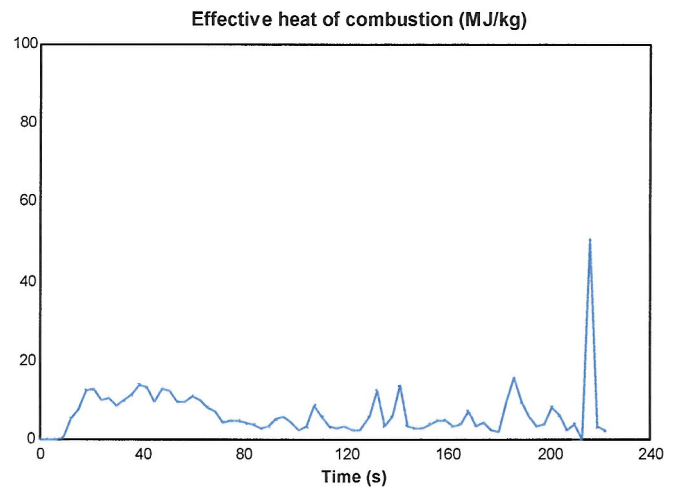
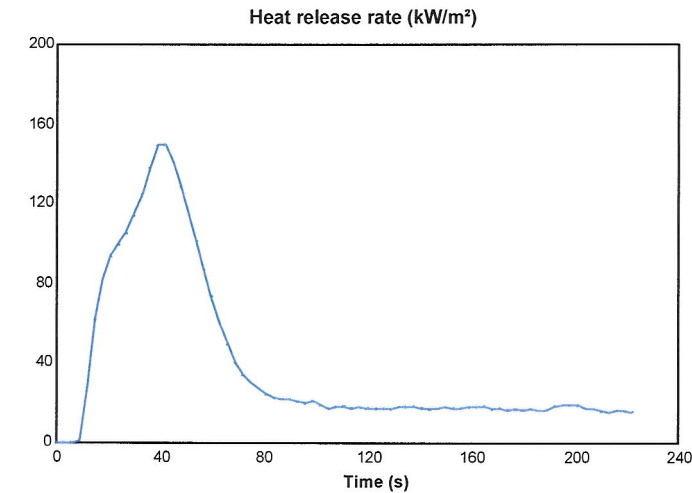
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Specimen : 2



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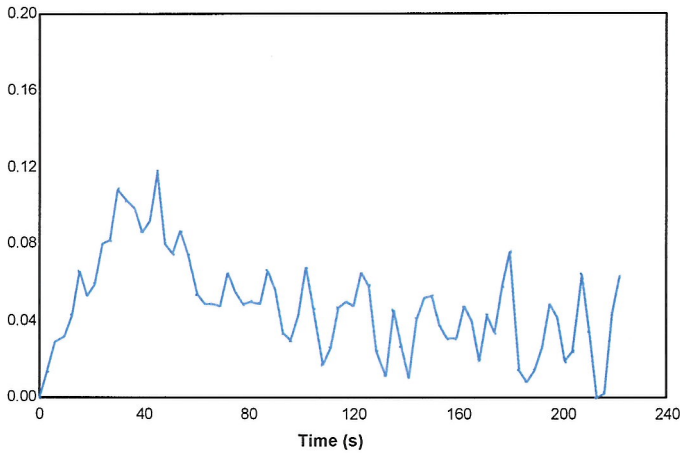
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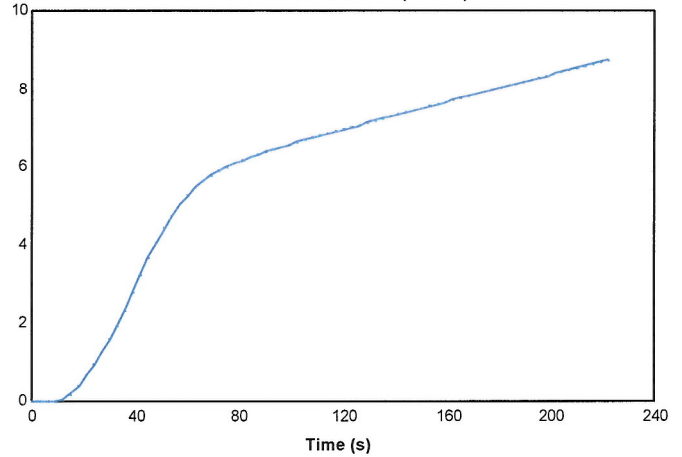
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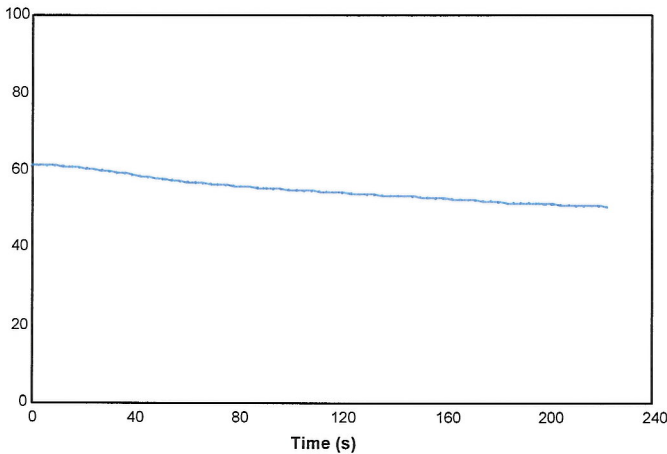
Mass loss rate (g/s)



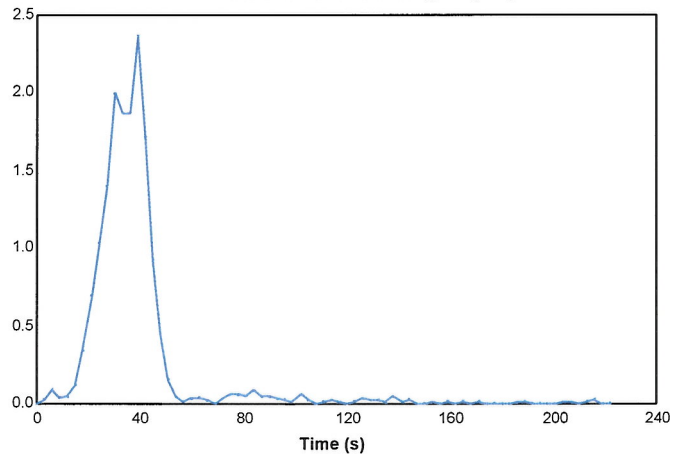
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m³/s]/m²)



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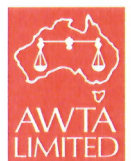
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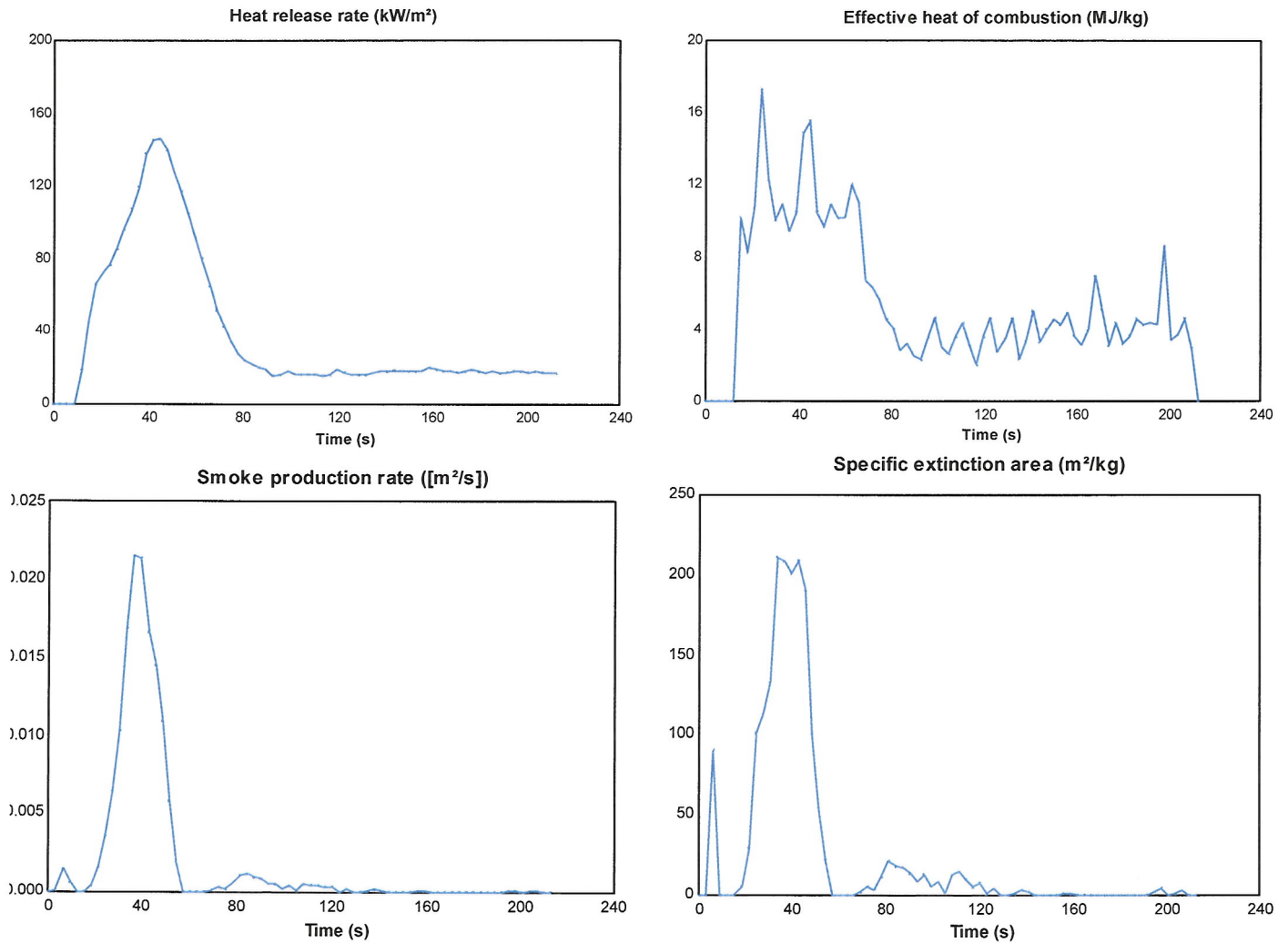
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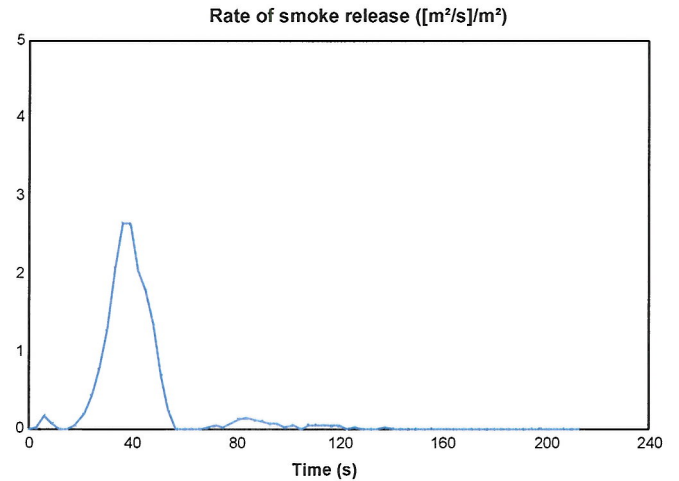
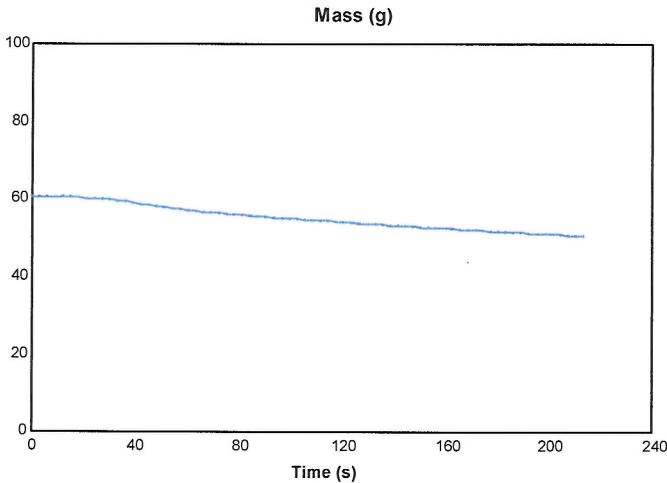
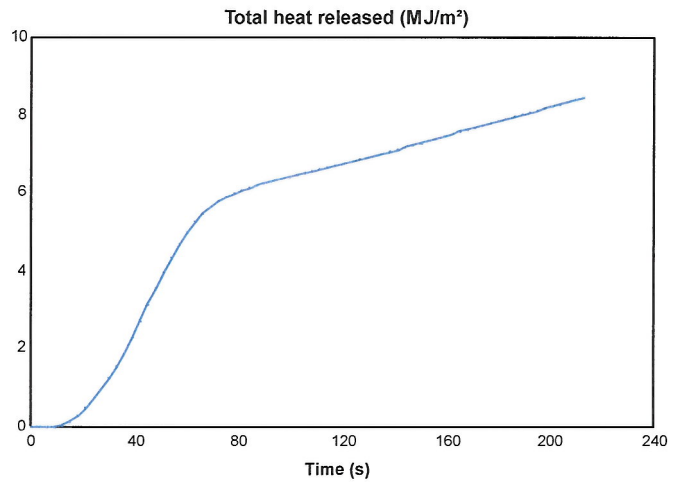
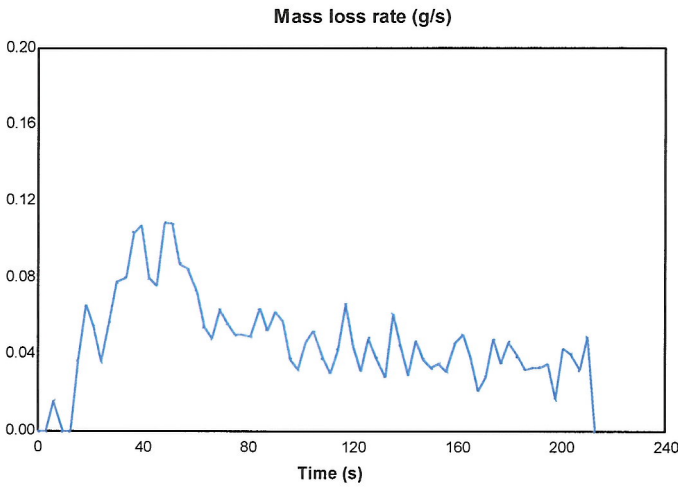
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Group Number Assessment

(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.

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Sponsor Product Clients Ref : "Floyd"
Woven fabric
Colour : Red
Nominal Composition : 50% Polyester 45% Wool 5% Nylon
Nominal Mass per Unit Area/Density : Approx: 280g/m²
Nominal Thickness : Approx: 1mm

Product Group Number Classification : 2

Average Specific Extinction Area : 40.2 m²/kg



Chris Campbell
Client Relations Manager

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