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 : Unique Fabrics
6 Mt Eden Road
Eden Terrace, Auckland New Zealand
New Zealand

Test Number : 19-003296
Issue Date : 16/08/2019
Print Date : 13/08/2020

Replacement of Initial Report dated :02/10/2019

Sample Description

Clients Ref : "Essentials, Wildwalk, Sketch, Essentials / Les Nuances"
Wallpaper samples
Colour : Various
End Use : Wallcovering
Nominal Composition : Non woven substrate with water based ink and decorative elements
Nominal Mass per Unit Area/Density : 277g/m2

Commercial Names od Product

Alchemy	Basalt	Berluti	Classic Impressions
Classic Victory	Classy Vibes	Delicate Chic	Favourite twist
Figura	Flamant	Flamant Caractere	Flamant Suite I
Flamant Suite II	Flamant Suite III Velvet	Flamant Suite IV refinded structures	Flamant Suite V Mystic
Impressions	Flamant Les Memoires	Flamant les Mineraux	Flament les Rayures
Flamant les Unis	Flavor Paper	Gentle Groove	Hidden Treasures
Jungle Jive	Le Corbusier	Le Corbusier Dots	Les Docors d'Arte
Ligna	New Elegance	Noctis	Memento
Metal X	Metal X Signum	Mixed Moods	Monochrome
Paper Craft	Pure Impulse	Revere	Rhapsody
Sahco	Shibori	Splendid Living	

Tinted Tiles: Opulent, Lush, Flake, Helix, Groove, Blend, Twist , Tangle
MOOOI: Calligaphy Bird, Blooming Seadragon, Aristo,Quagga, Blushing Sloth, Umbrella Squid,
Insolence: Temper, Shiver, Vanity, Blast, Nerve, Moxie
Cantala: Craft, Combo, String
Vanguard: Plex, Mira, Modernist, Tessella, Traverse
Paleo: Latus, Empire, Civilia, Strata
Exotique: Carmona, Cumulus, Scala, Tembo
Exotique: Meru, Sabal
Nomadia: Aster, Accra, Axim, Hedera, Solid, Mazuri

NATA

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- Chemical Testing : Accreditation No. 983
- Mechanical Testing : Accreditation No. 985
- Performance & Approvals Testing : Accreditation No. 1356

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APPROVED SIGNATORY

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

0204/11/06

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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 16/08/2019
Face Tested Face

	Specimen							
	1	2	3	4	5	6	Mean	
Average Heat Release Rate	5.8	6.2	5.1	8.8	9.9	8.7	7.4	kW/m²
Average Specific extinction area							17.2	

(According to ISO 5660.2-2002)

Test orientation : Horizontal

	Specimen							
	1	2	3	4	5	6	Mean	
Irradiance	50	50	50	50	50	50	50	kW/m²
Exhaust flow rate	0.024	0.024	0.024	0.024	0.024	0.024	0.024	m³/s
Time to sustained flaming	38	29	30	33	30	31	32	sec
Test duration	1838	1829	1830	1833	1830	1831	1832	sec
Peak heat release after ignition	106.4	148.0	68.8	119.0	97.2	87.3	104.5	kW/m²
Average heat at 60 s								
Average heat at 180 s	27.0	41.8	24.3	36.1	33.0	29.8	32.0	kW/m²
Average heat at 300 s	18.0	30.8	19.1	26.1	25.3	22.0	23.5	kW/m²
Total heat released	11.0	14.8	10.1	16.1	17.8	15.9	14.3	MJ/m²
Ave. effective heat of combustion	5.6	5.2	4.6	8.3	8.8	7.8	6.7	MJ/kg
Initial thickness	10.5	10.5	10.5	10.7	10.5	10.5	10.5	mm
Initial mass	58.9	65.6	63.5	58.7	59.9	64.6	61.9	g
Mass at sustained flaming	58.1	65.2	62.8	58.3	59.6	64.3	61.4	g
Mass remaining	43.5	46.8	47.4	43.0	43.5	47.8	45.3	g

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Mass percentage pyrolysed							26.7	
Mass loss	1904.1	2317.8	1993.4	1942.4	2019.9	2079.2	2042.8	g/m²
Average rate of mass loss	1.0	1.2	1.1	1.1	1.1	1.1	1.1	g/m².s
Total smoke Production (Non Flaming phase)	5.8	3.4	7.3	9.2	3.5	5.8	5.8	m²/m²
Total smoke Production (Flaming phase)	26.5	34.1	36.2	47.7	42.8	43.7	38.5	m²/m²
Total smoke Production (Non Flaming & Flaming phase)	32.3	37.5	43.5	56.9	46.3	49.5	44.3	m²/m²
Specimen Surface area							-	
C-Factor (Calibration Constant)	).040253	0.042682	).040253	).040253	.040253	0.042682		-

Additional Observations: None

Difficulties Encountered during Testing: None

Samples were adhered to a substrate of 10mm thick plasterboard using Proffessional Ultra Clear PRO 880 wallcovering adhesive prior to testing.

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.

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

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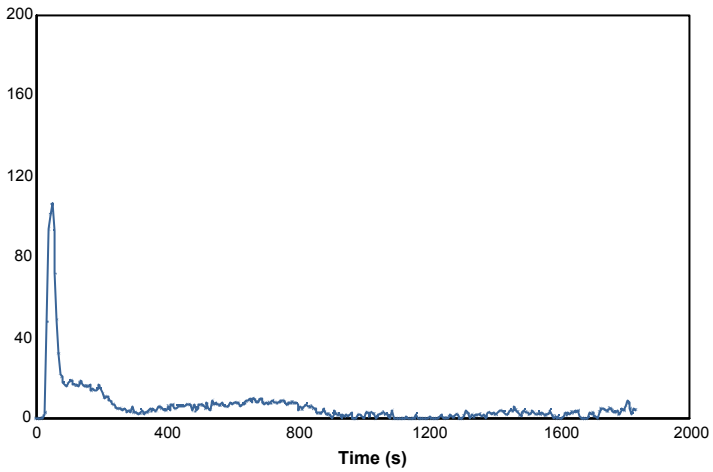
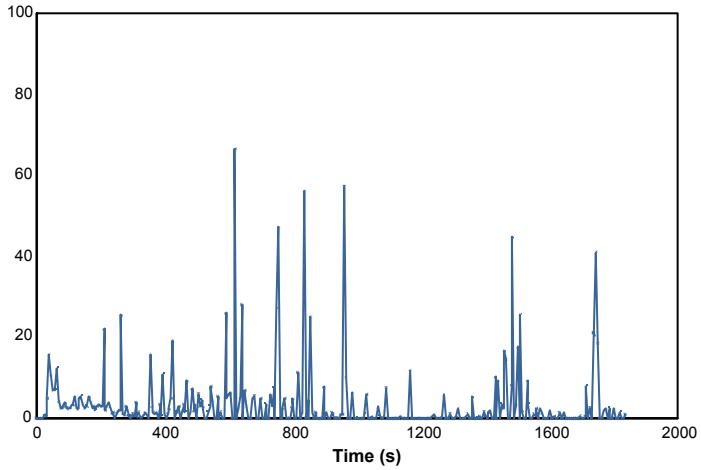
Specimen : 1

Heat release rate (kW/m²)



Effective heat of combustion (MJ/kg)



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- Performance & Approvals Testing	: Accreditation No.	1356

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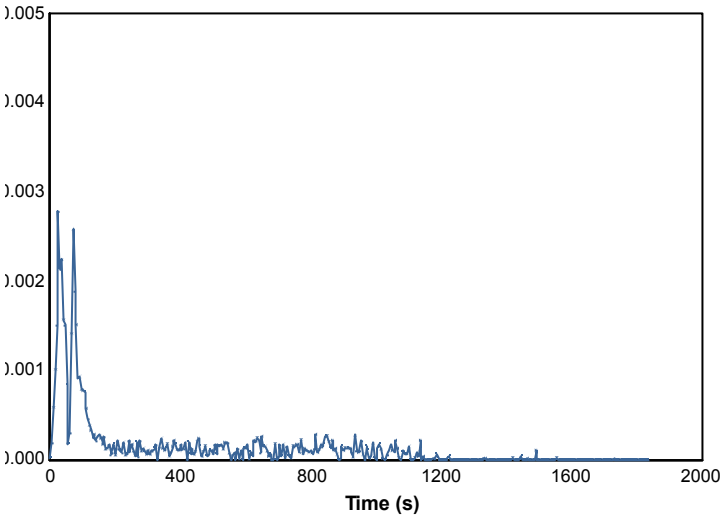
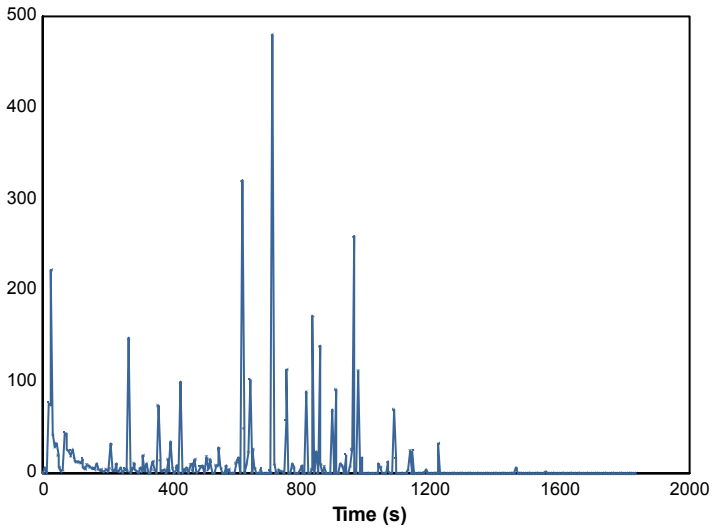
Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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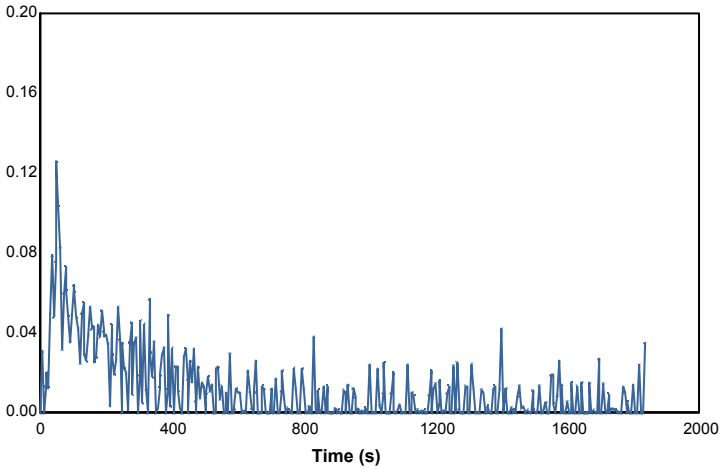
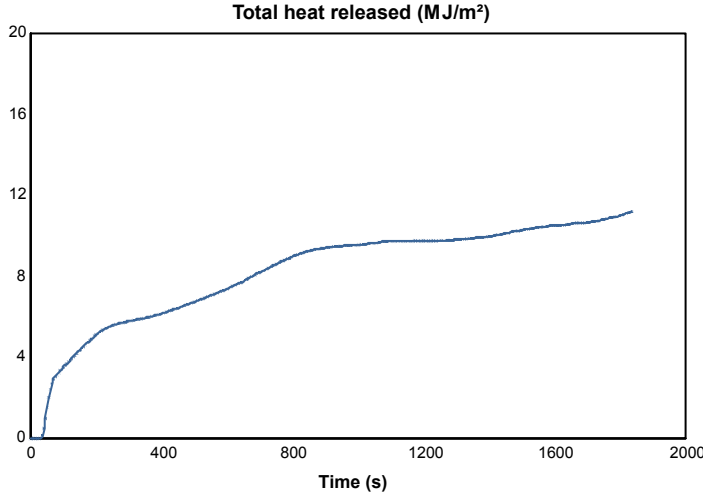
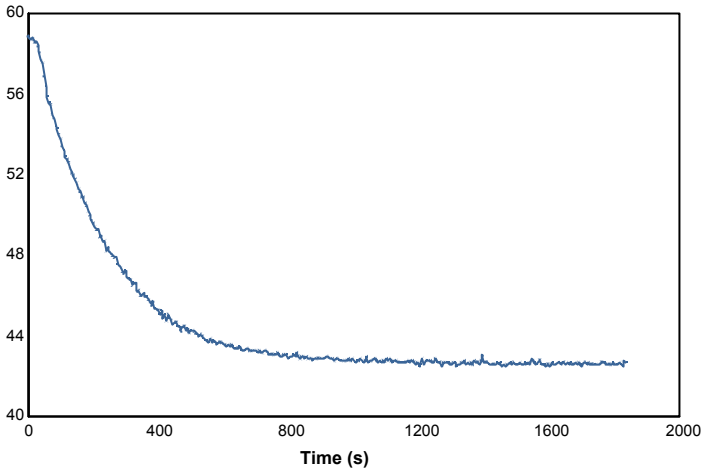
Mass loss rate (g/s)



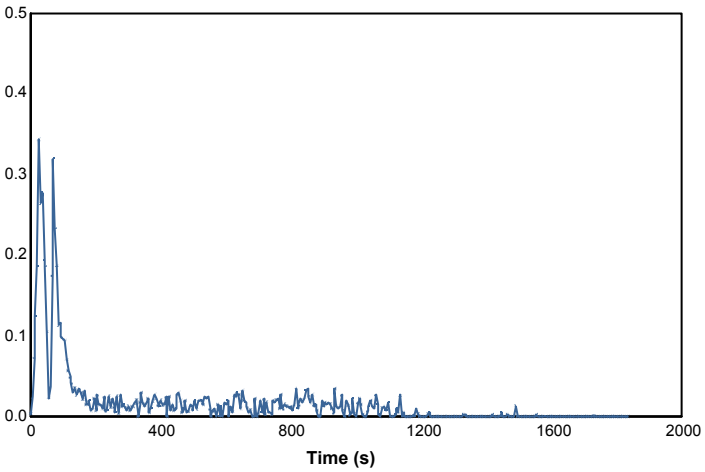
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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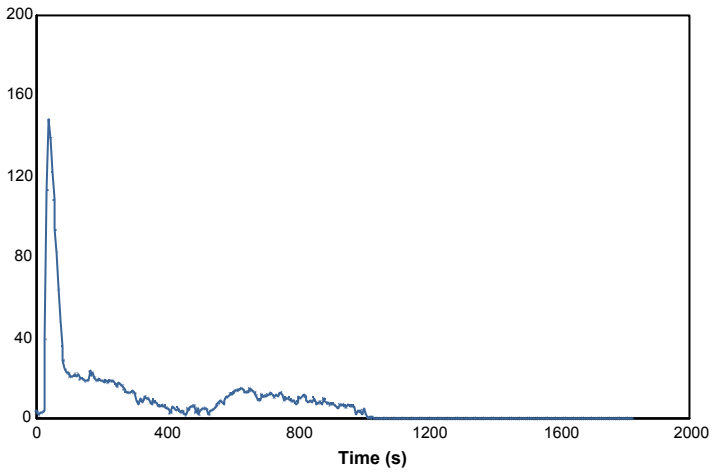
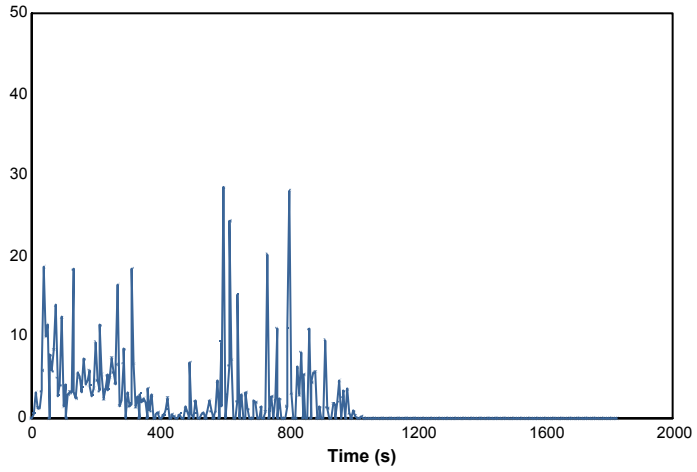
Specimen : 2

Heat release rate (kW/m²)



Effective heat of combustion (MJ/kg)



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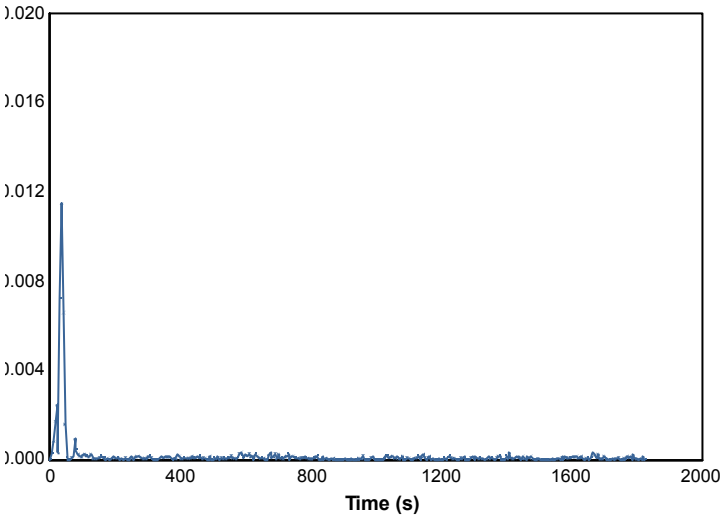
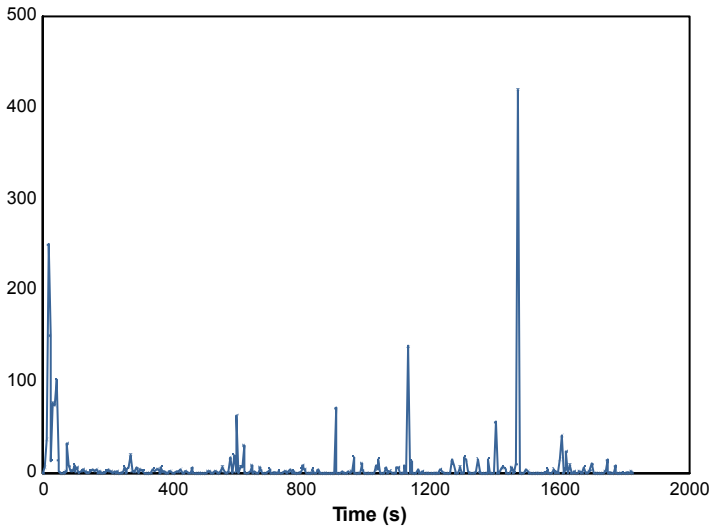
Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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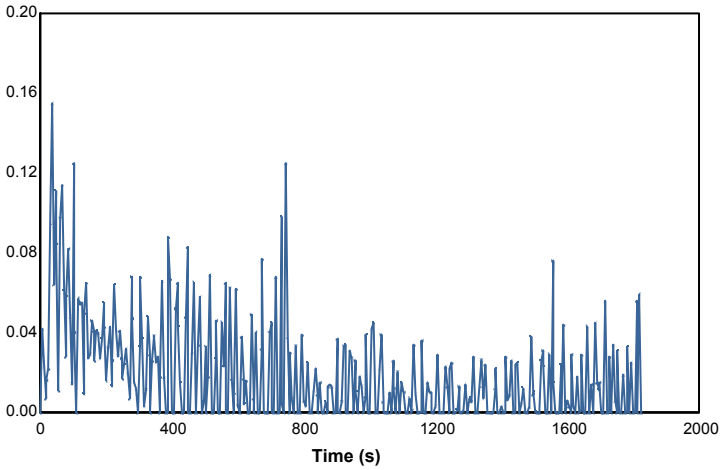
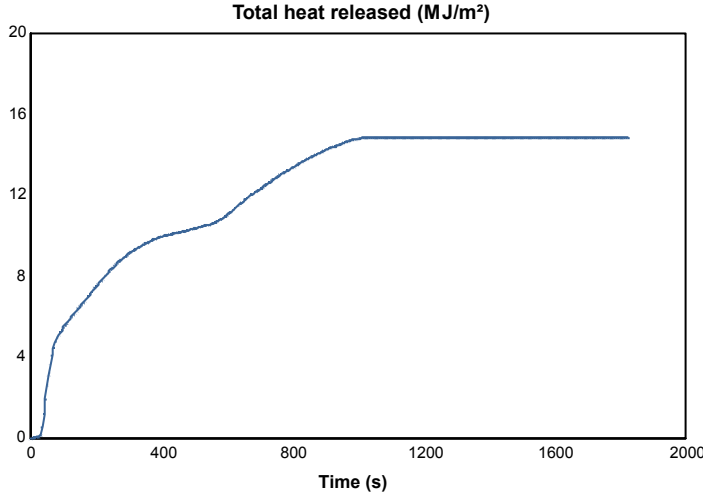
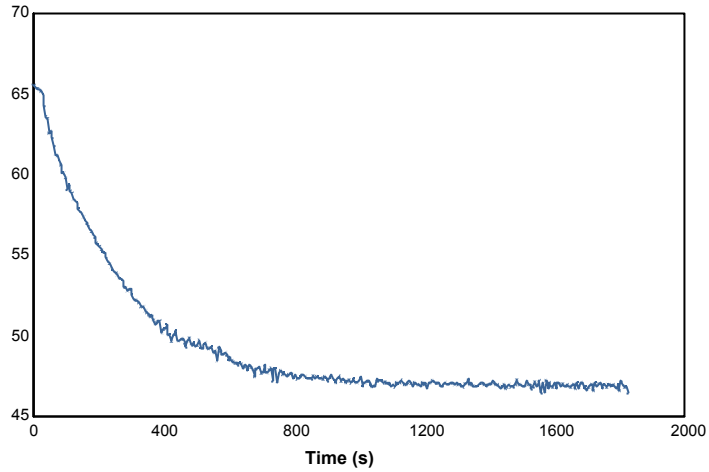
Mass loss rate (g/s)



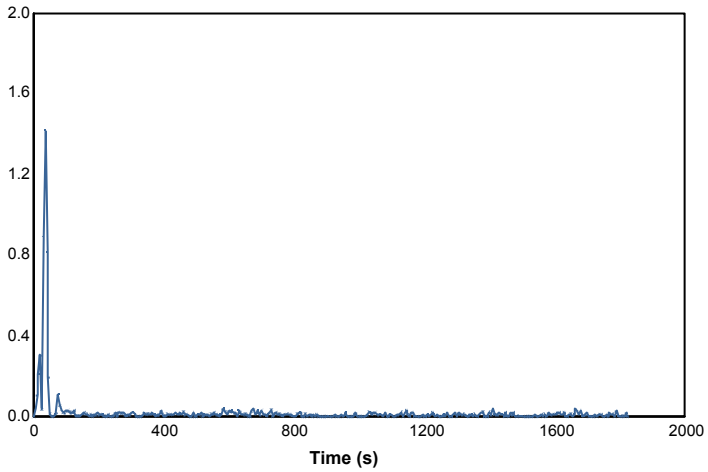
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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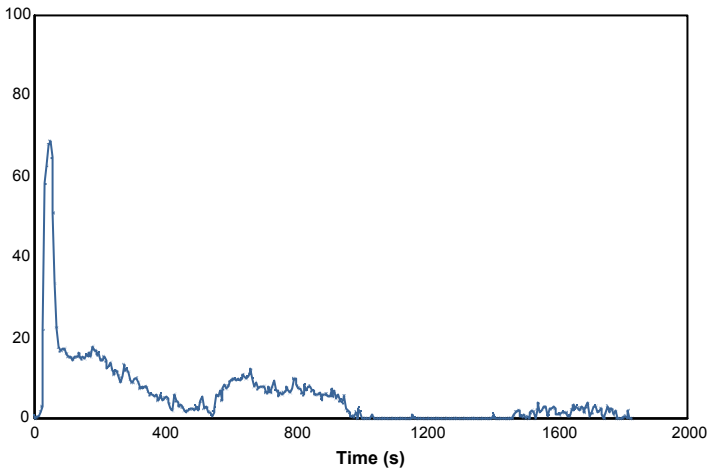
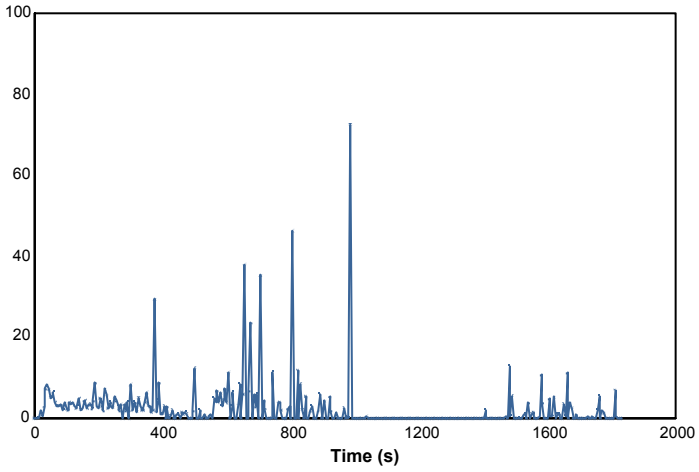
Specimen : 3

Heat release rate (kW/m²)



Effective heat of combustion (MJ/kg)



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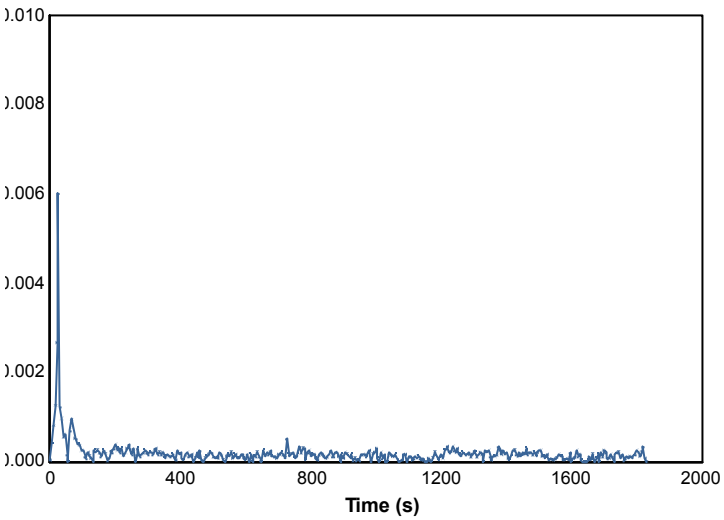
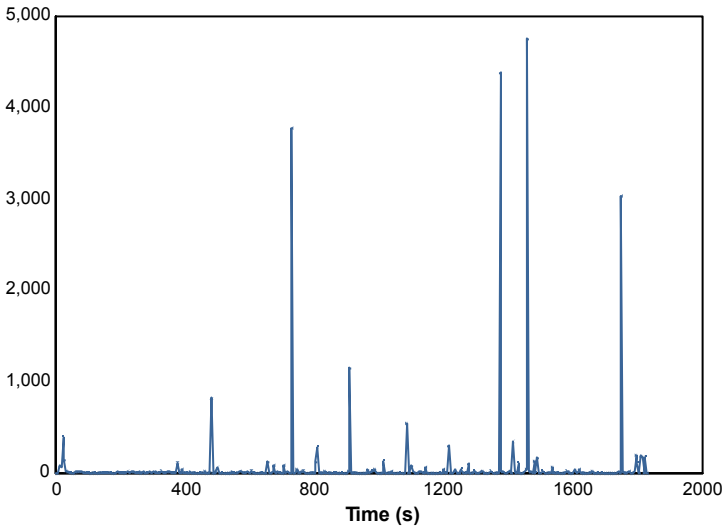
Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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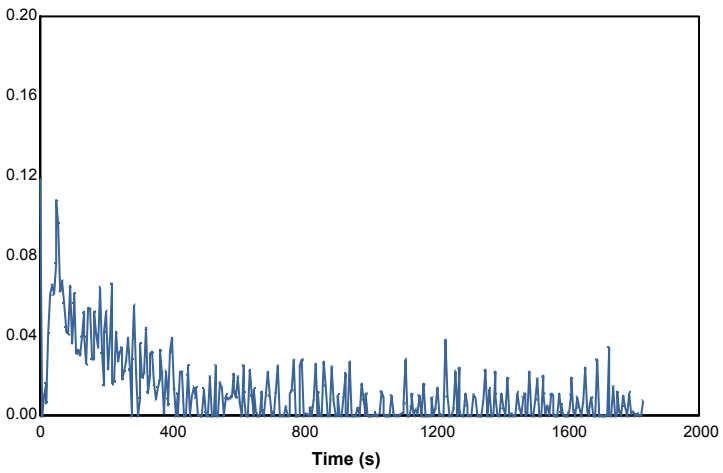
Eden Terrace, Auckland New Zealand
New Zealand

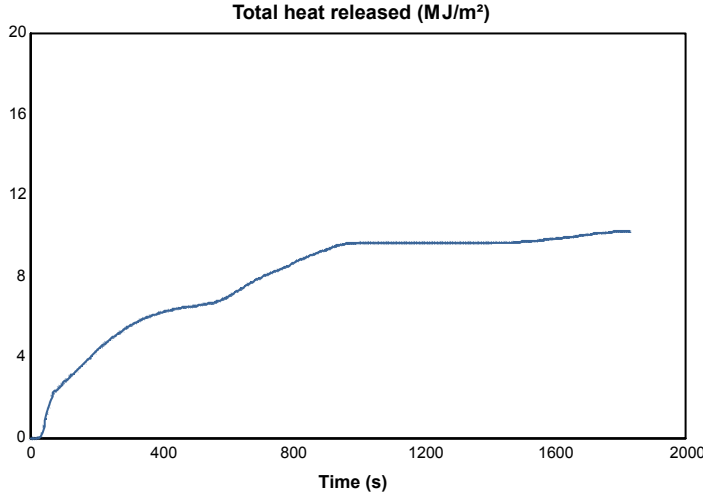
Test Number : 19-003296
Issue Date : 16/08/2019
Print Date : 13/08/2020

Replacement of Initial Report dated :02/10/2019

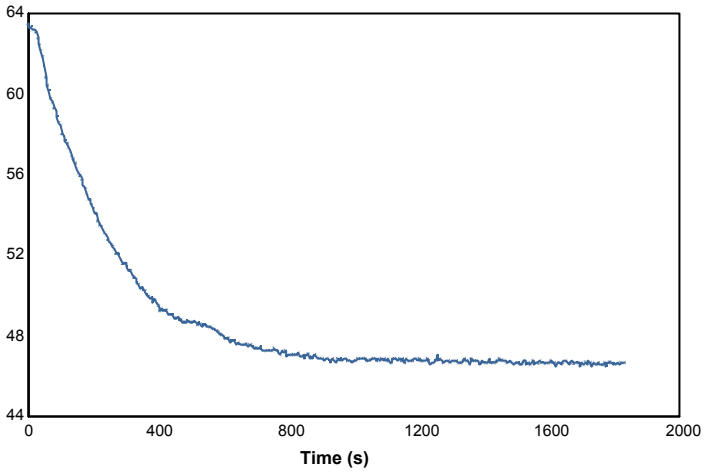
Mass loss rate (g/s)



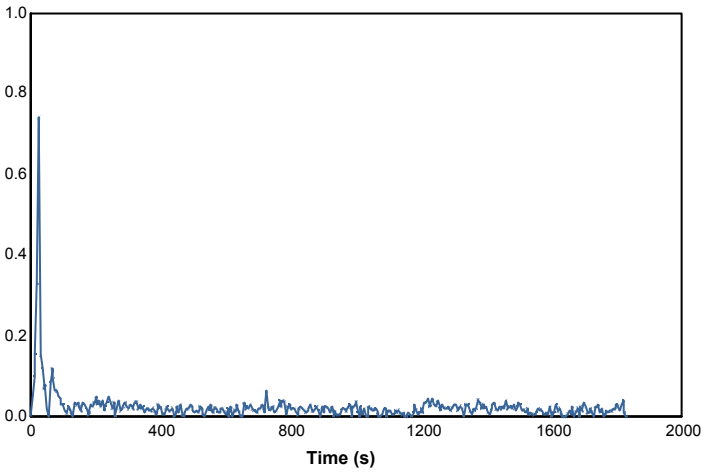
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



107566 36859

Accredited for compliance with ISO/IEC 17025 - Testing
- Chemical Testing : Accreditation No. 983
- Mechanical Testing : Accreditation No. 985
- Performance & Approvals Testing : Accreditation No. 1356

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APPROVED SIGNATORY

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

0204/11/06

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 : Unique Fabrics
6 Mt Eden Road
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Test Number : 19-003296
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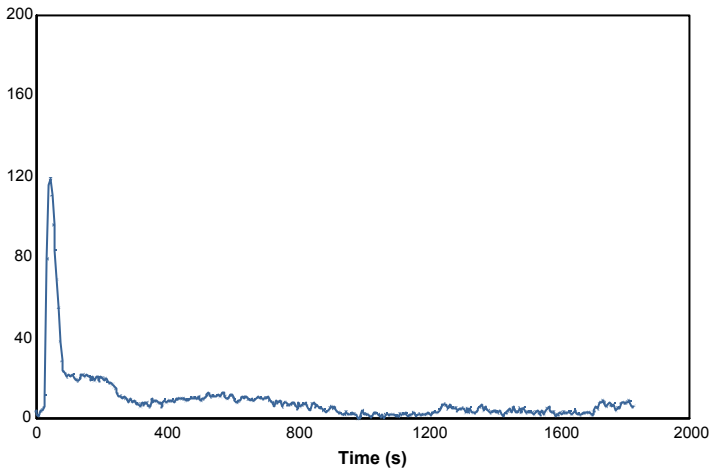
Print Date : 13/08/2020

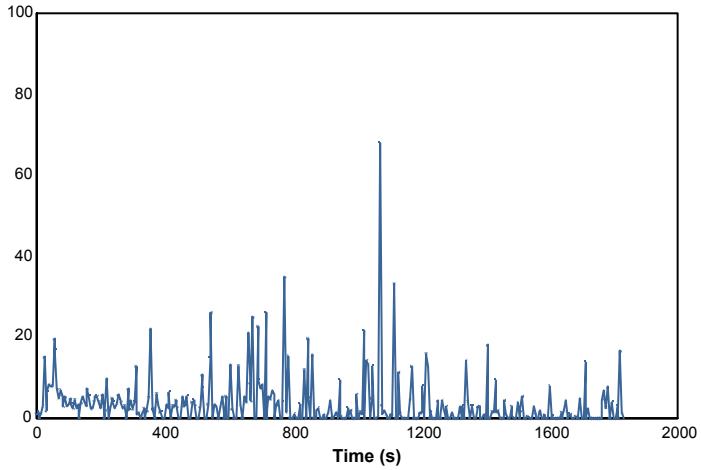
Replacement of Initial Report dated :02/10/2019

Specimen : 4

Heat release rate (kW/m²)



Effective heat of combustion (MJ/kg)



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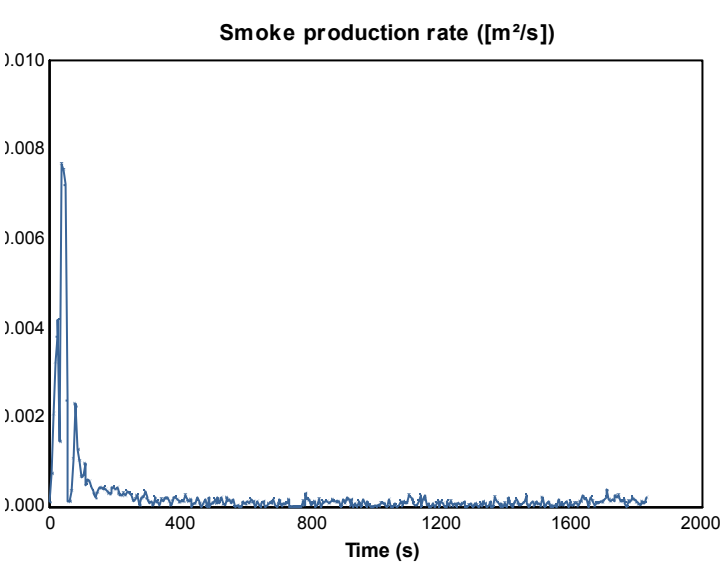

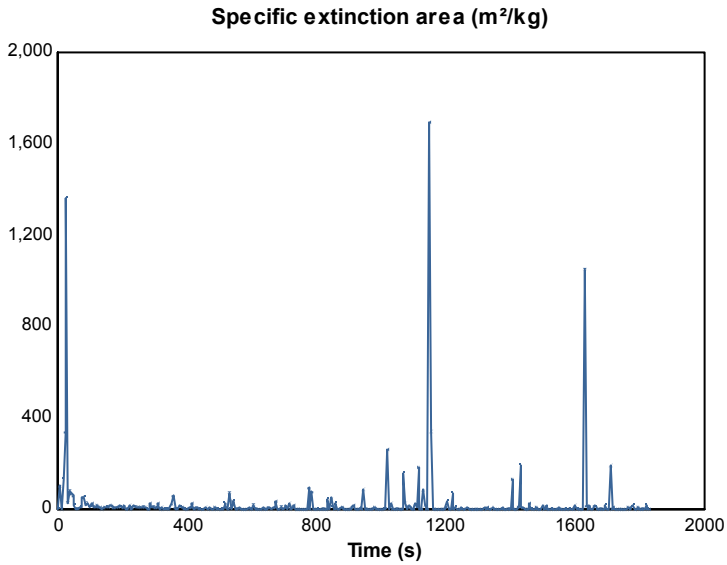

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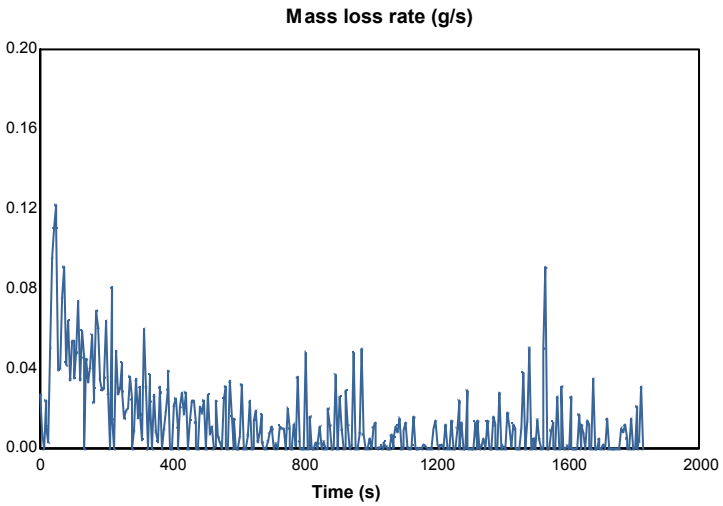

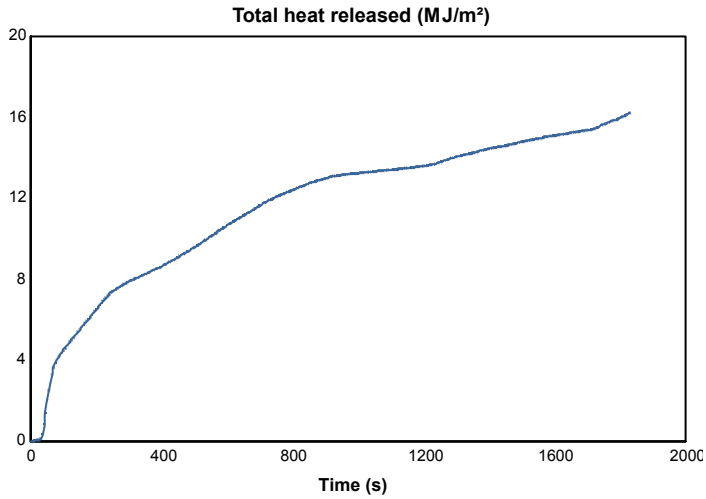

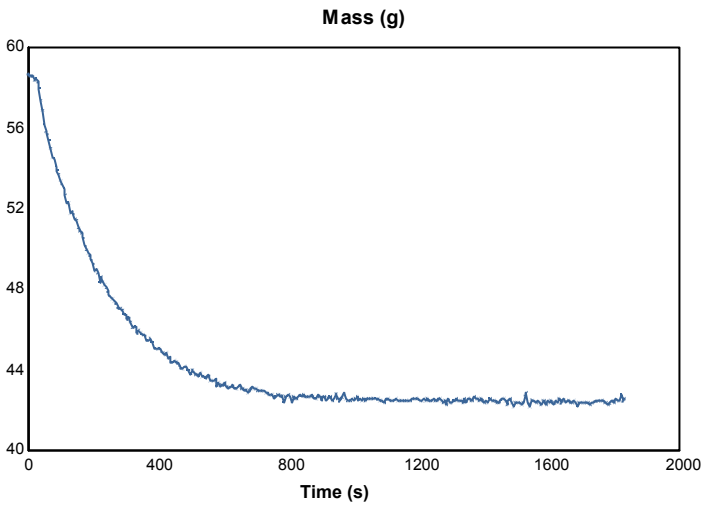

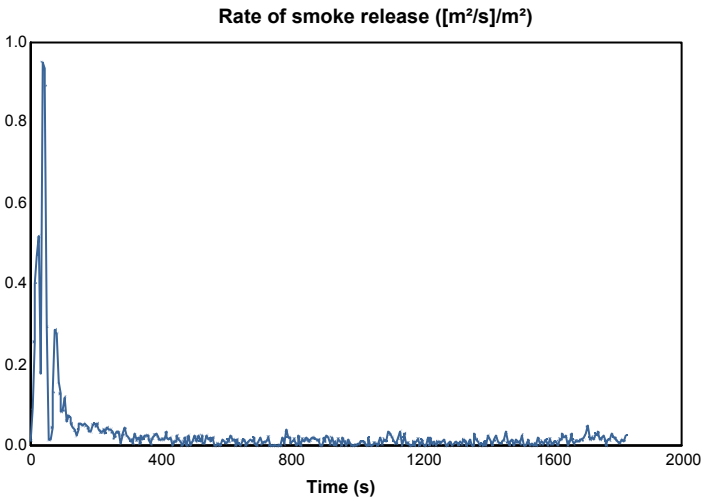

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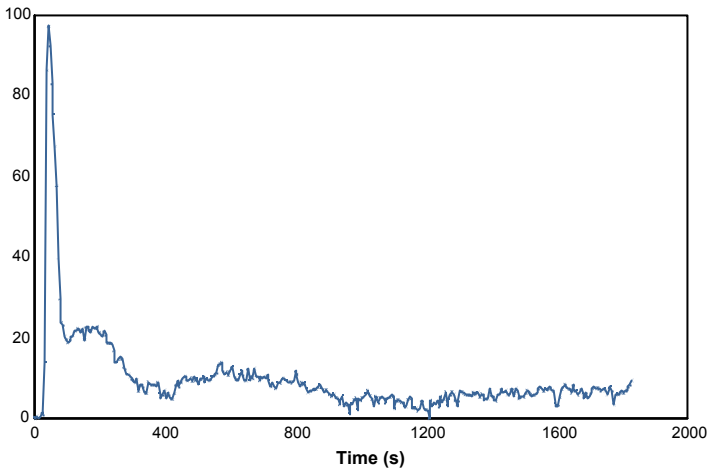
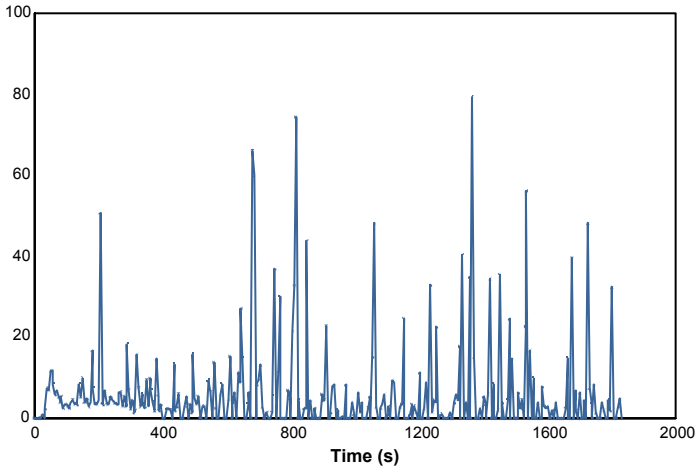
Replacement of Initial Report dated :02/10/2019

Specimen : 5

Heat release rate (kW/m²)



Effective heat of combustion (MJ/kg)



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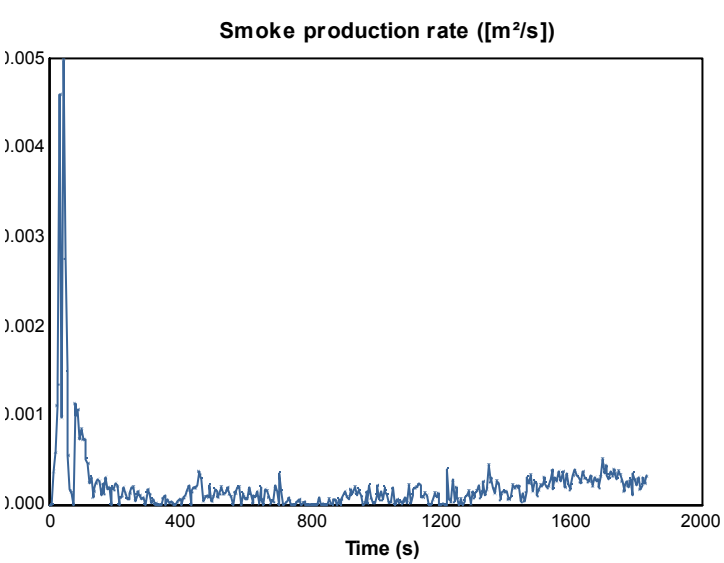

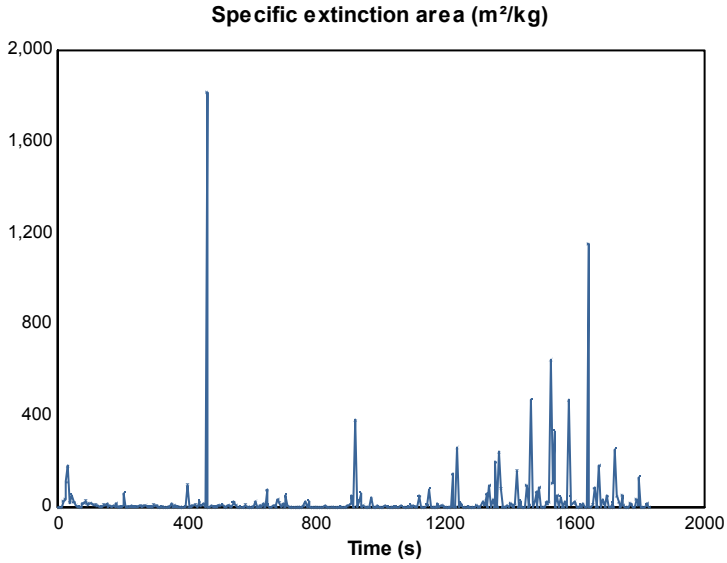

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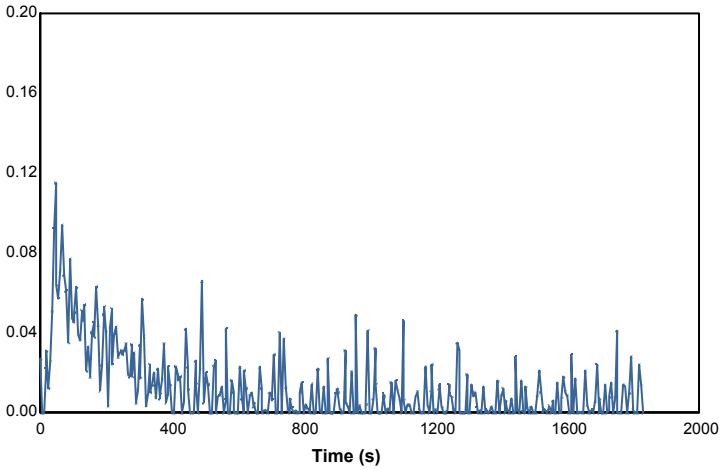
New Zealand

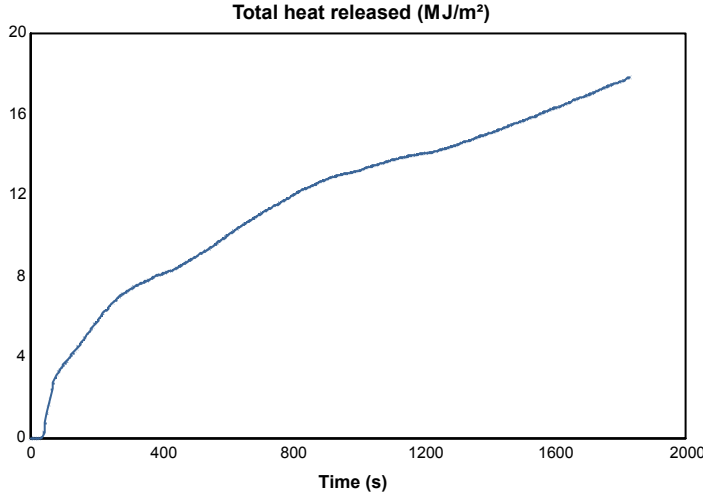
Test Number : 19-003296
Issue Date : 16/08/2019
Print Date : 13/08/2020

Replacement of Initial Report dated :02/10/2019

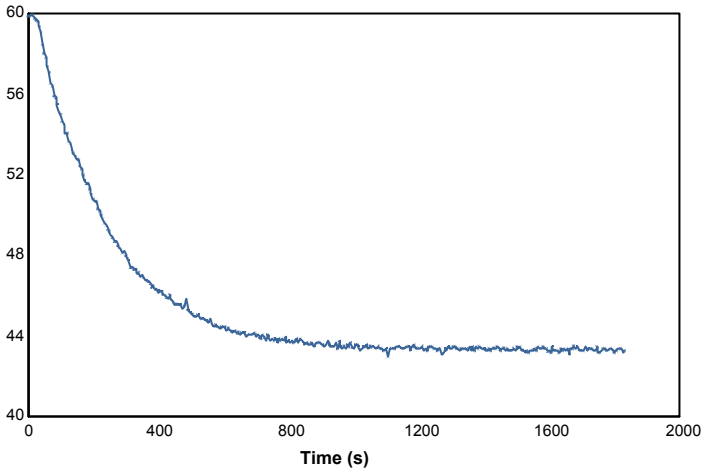
Mass loss rate (g/s)



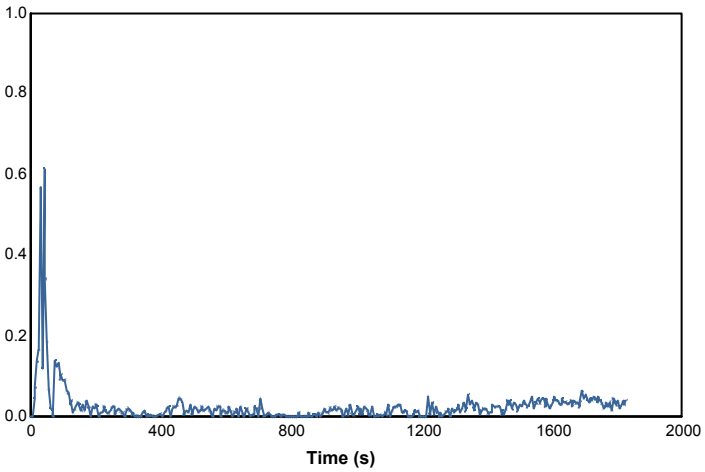
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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Test Number : 19-003296
Issue Date : 16/08/2019
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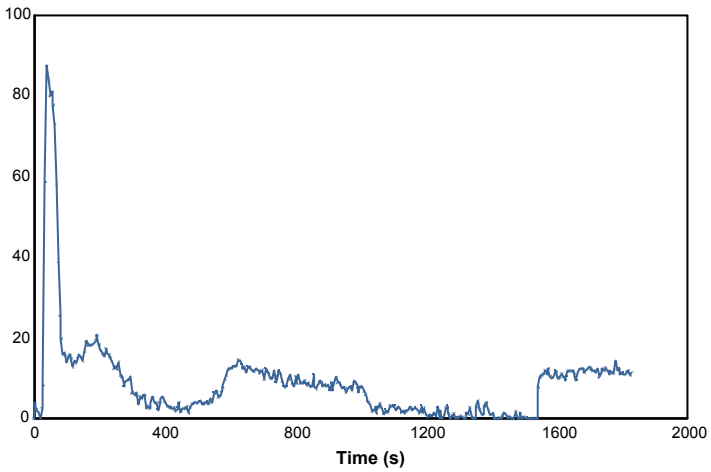
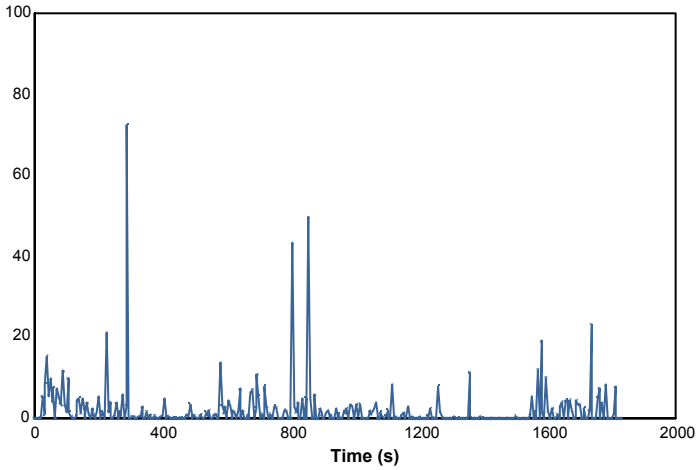
Replacement of Initial Report dated :02/10/2019

Specimen : 6

Heat release rate (kW/m²)



Effective heat of combustion (MJ/kg)



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- Chemical Testing	: Accreditation No.	983
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- Performance & Approvals Testing	: Accreditation No.	1356

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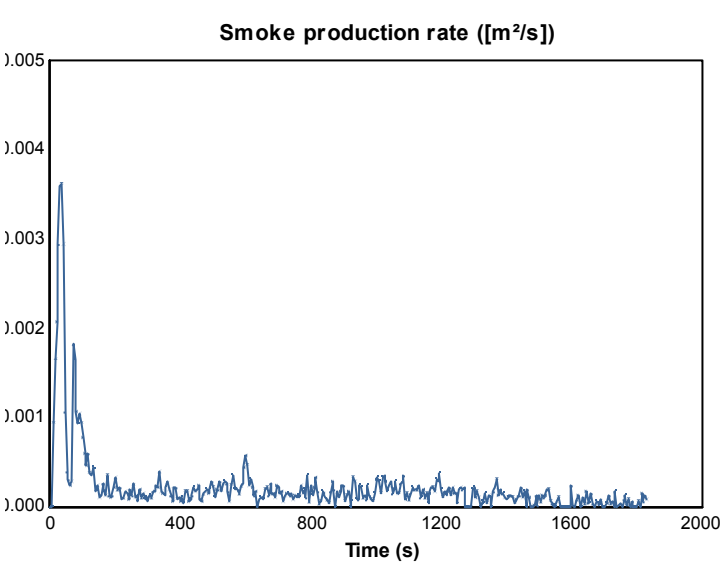

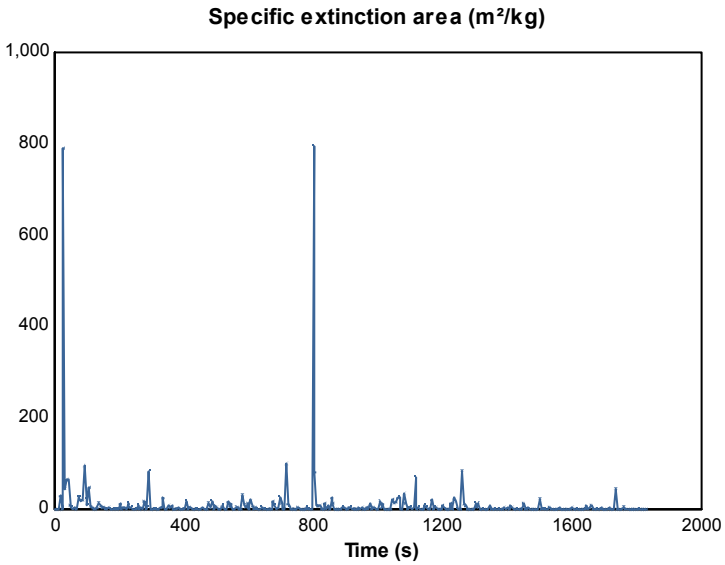

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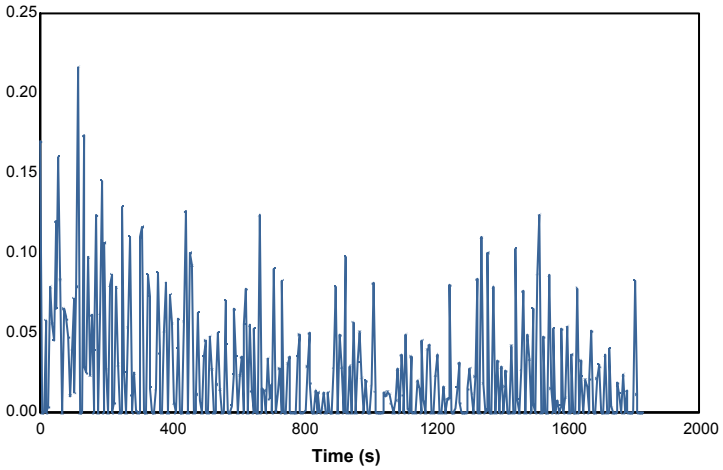
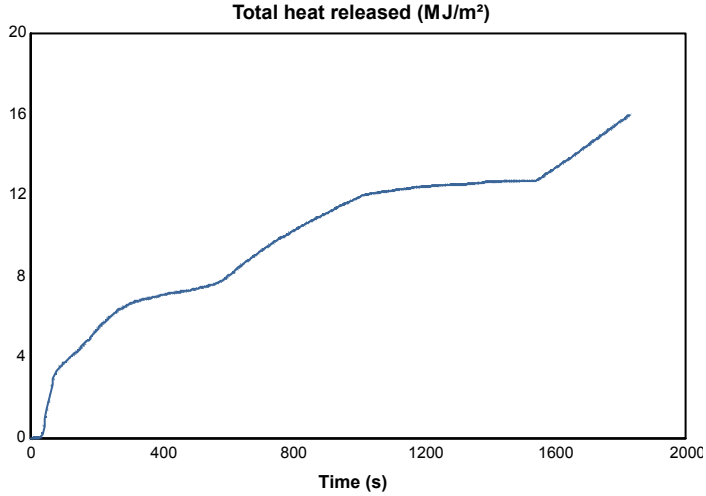
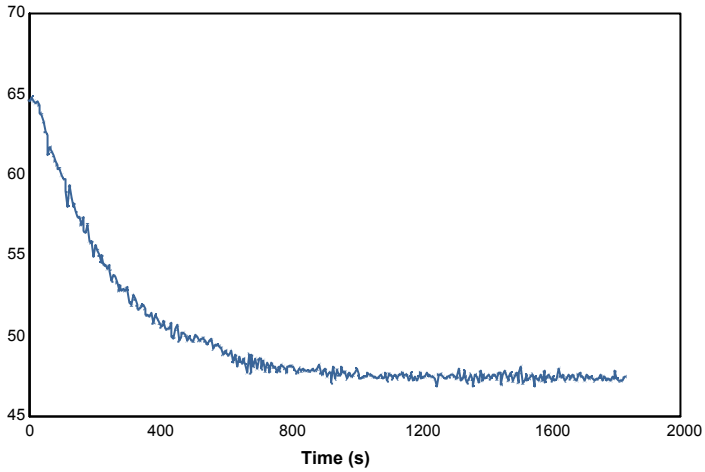
Mass loss rate (g/s)



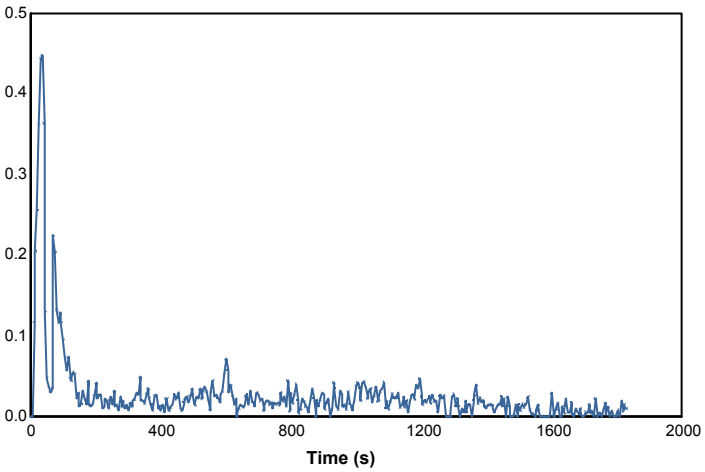
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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Group Number Assessment

(In accordance with New Zealand Building Code Verification Method C/VM2 Appendix A)

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 Method of test for heat and smoke release rates for materials and products using an oxygen consumption calorimeter.

Test Sponsor : Unique Fabrics
6 Mt Eden Road
Eden Terrace, Auckland New Zealand
New Zealand

Test Number : 19-003296
Issue Date : 20/08/2019
Print Date : 13/08/2020

Sponsor Product

Clients Ref : "Essentials, Wildwalk, Sketch, Essentials / Les Nuances"
Wallpaper samples
Colour : Various
End Use : Wallcovering
Nominal Composition : Non woven substrate with water based ink and decorative elements
Nominal Mass per Unit Area/Density : 277g/m2

Product Group Number Classification : 1S

Average Specific Extinction Area : 17.2 m²/kg

Fiona McDonald
Testing Technologist

36859