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: Specialty Theatre Supplies

40 Tennyson Street Williamstown VIC 3016 **Test Number** : 23-003439

Order Number:

Issue Date : 8/09/2023
Print Date : 25/09/2023

9030

Sample Description Clients Ref : "565 gsm IFR Wool"

Milled woven fabric Colour: Black

End Use: Theatre Drapery
Nominal Composition: Wool

Nominal Mass per Unit Area/Density: 565g/m2

Nominal Thickness: Approx: 2mm



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HAEL A. JACKSON B.Sc.(Hons)

Fiona McDonald

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AWTA Product Testing

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TEST REPORT

Client: Specialty Theatre Supplies

> 40 Tennyson Street Williamstown VIC 3016

Test Number : 23-003439 **Issue Date** 8/09/2023

Print Date 25/09/2023 Order Number:

9030

AS/NZS 1530.3-1999

Methods for Fire Tests on Building Materials, Components and Structures Part 3: Simultaneous Determination of Ignitability,

Flame Propagation, Heat Release and Smoke Release

Date tested: 07-09-2023

Standard Error Mean Ignition time Nil Nil min

Flame propagation time Nil Nil Heat release integral Nil kJ/m² Nil

Face

Smoke release, log d 0.0690 -1.0728

Optical density, d 0.0898 / metre

Number of specimens ignited: 0 Number of specimens tested: 6

Regulatory Indices:

Face tested:

Ignitability Index Range 0-20 Spread of Flame Index Range 0-10 Heat Evolved Index Range 0-10 Smoke Developed Index Range 0-10

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TEST REPORT

Client: Specialty Theatre Supplies

40 Tennyson Street Williamstown VIC 3016 **Test Number** : 23-003439 **Issue Date** : 8/09/2023

Print Date : 25/09/2023

Order Number: 9030

The reaction of thin unsupported flexible materials to flame impingement can be assessed in accordance with AS 1530.2. Where materials of thickness less than 2mm that are sufficiently flexible to be bent by hand around a mandrel of 2mm diameter or less are subjected to the test described herein, they should also be subjected to the test in AS 1530.2.

Ignition is initiated by a pilot flame that is held near, but does not touch the specimen. A material that does not ignite during the standard test may ignite if contacted with a pilot flame during the test

To allow free movement of sample during testing all corners were folded away from the clamps.

The specimens were mounted to simulate use in an unsupported or free hanging mode. The results may be significantly different when mounted to simulate a wall cladding or upholstery application.

Each test specimen was sandwiched between two layers of galvanised welded square mesh made from wire of nominal diameter 0.8mm and nominal spacing 12mm in both directions, stapled through at four points, each 100mm from the centre of the sample and the assembly clamped in four places.

These results only apply to the specimen mounted, as described in this report. The result of this fire test 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.

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Fiona McDonald

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TEST REPORT

Client: Specialty Theatre Supplies

40 Tennyson Street Williamstown VIC 3016 Test Number : 23-003440

Issue Date : 08/09/2023 Print Date : 25/09/2023

Order Number: 9030

Sample Description Clients Ref : "565 gsm IFR Wool"

Milled woven fabric

Colour: Black

End Use: Theatre Drapery

Nominal Composition: Wool

Nominal Mass per Unit Area/Density: 565g/m2



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Chris Campbell



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TEST REPORT

Client: Specialty Theatre Supplies

40 Tennyson Street Williamstown VIC 3016 Test Number : 23-003440 Issue Date : 08/09/2023

Print Date : 25/09/2023

Order Number: 9030

AS/NZS 3837-1998 Method of Test for Heat and Smoke Release Rates for Materials and Products using an Oxygen

Consumption Calorimeter

Date Tested 08-09-2023

Operator AWTA Test Operator 9

Face Tested FACE

Specimen

2 Mean 3 1 30.0 29.2 30.7 30.0 kW/m² Average Heat Release Rate 55.9 53.7 54.2 Average Specific extinction area 54.6 m²/kg

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

Specimen

Test orientation: Horizontal

	1	2	3	Mean	
Irradiance	50	50	50	50	kW/m²
Exhaust flow rate	0.024	0.024	0.024	0.024	m³/s
Time to sustained flaming	28	21	24	24	sec
Test duration	246	218	211	225	sec
Peak heat release after ignition	140.3	171.1	141.6	151.0	kW/m²
Average heat at 60 s	82.0	79.4	80.9	80.7	kW/m²
Average heat at 180 s	34.9	31.3	32.0	32.7	kW/m²
Average heat at 300 s	n/a	n/a	n/a	n/a	kW/m²
Total heat released	6.6	5.8	5.8	6.1	MJ/m²
Average effective heat of combustion	7.8	7.2	7.8	7.6	MJ/kg
Initial thickness	7.9	7.9	7.9	7.9	mm
Initial mass	90.9	89.1	87.7	89.2	g
Mass remaining	84.1	82.6	81.4	82.7	g
Mass percentage pyrolysed	7.5	7.3	7.2	7.3	%

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Chris Campbel



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TEST REPORT

Specialty Theatre Supplies Client:

40 Tennyson Street

Williamstown VIC 3016

Test Number :

23-003440

Issue Date

08/09/2023

Print Date

25/09/2023

Order Number:

9030

Mass loss

8.0 3.8 8.0 4.0 8.0 4.0

0.8 3.9 kg/m² g/m².s

Average rate of mass loss **Additional Observations**

NONE

Difficulties Encountered during Testing

NONE

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.

Tests were conducted with a wire grid placed over the sample during testing.

This was done to contain intumescing sample within the sample holder.

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

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ANAGING DIRECTOR

0204/11/06

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TEST REPORT

Specialty Theatre Supplies Client:

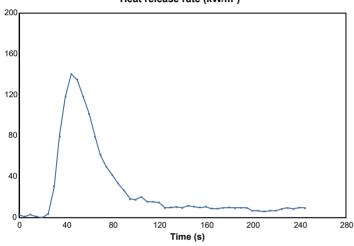
> 40 Tennyson Street Williamstown VIC 3016

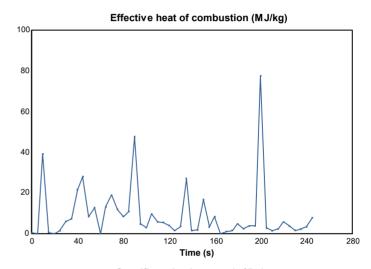
23-003440 Test Number :

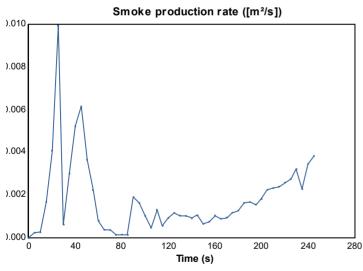
Issue Date 08/09/2023 25/09/2023 **Print Date**

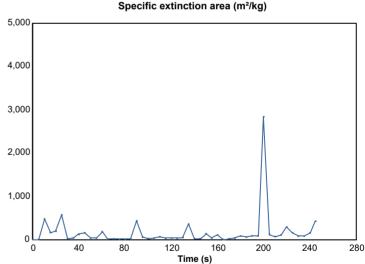
9030 **Order Number:**

Specimen: 1 Heat release rate (kW/m²) 200









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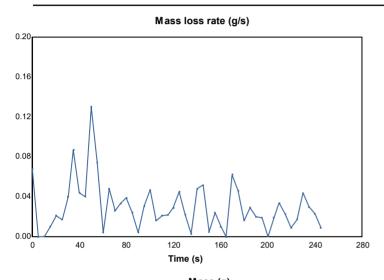
TEST REPORT

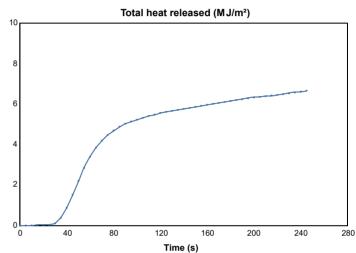
Client: Specialty Theatre Supplies

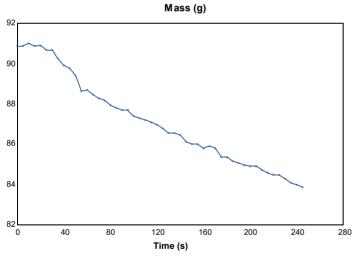
40 Tennyson Street Williamstown VIC 3016 **Test Number** : 23-003440

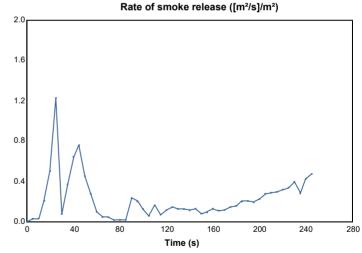
Issue Date : 08/09/2023 Print Date : 25/09/2023

Order Number: 9030









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TEST REPORT

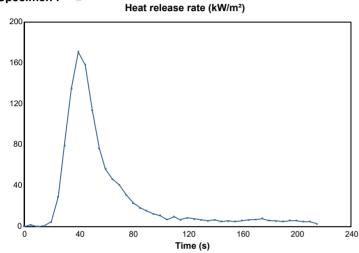
Client: Specialty Theatre Supplies

40 Tennyson Street Williamstown VIC 3016 Test Number : 23-003440

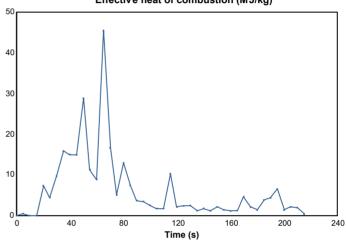
Issue Date : 08/09/2023 Print Date : 25/09/2023

Order Number: 9030

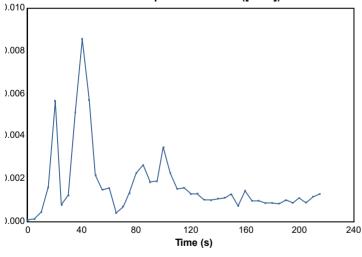
Specimen: 2



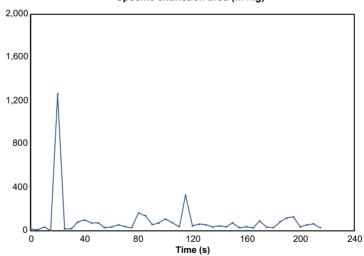
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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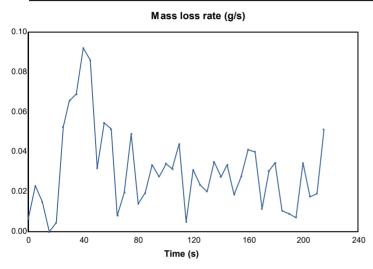
TEST REPORT

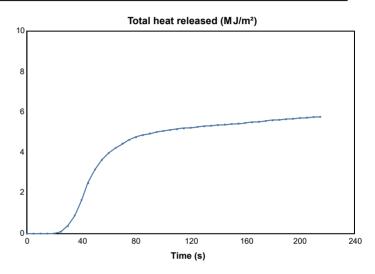
Client: Specialty Theatre Supplies

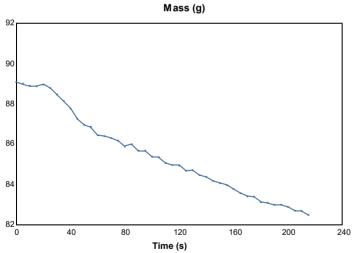
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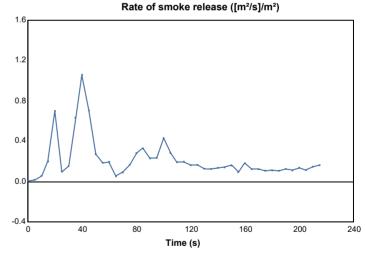
Issue Date : 08/09/2023 Print Date : 25/09/2023

Order Number: 9030









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TEST REPORT

Specialty Theatre Supplies Client:

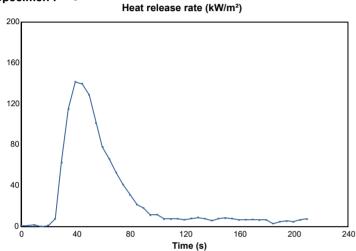
> 40 Tennyson Street Williamstown VIC 3016

23-003440 Test Number :

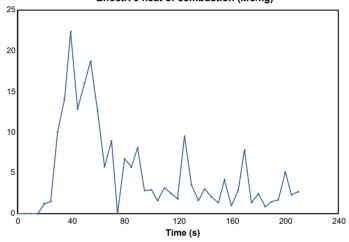
Issue Date 08/09/2023 25/09/2023 **Print Date**

9030 **Order Number:**

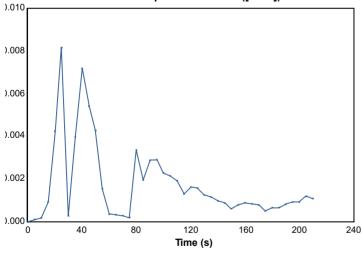
Specimen:



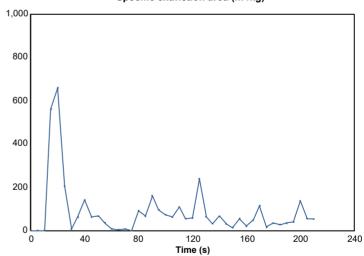
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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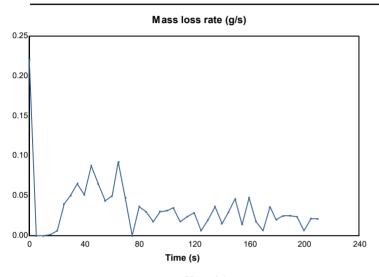
TEST REPORT

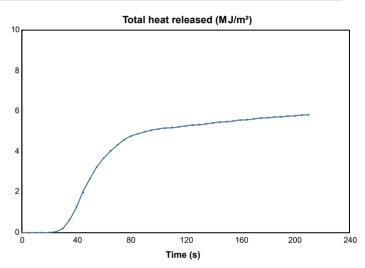
Client: Specialty Theatre Supplies

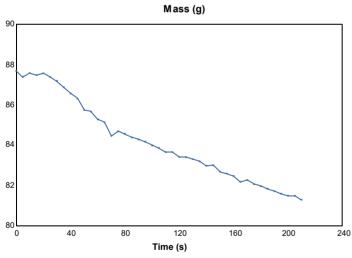
40 Tennyson Street Williamstown VIC 3016 **Test Number** : 23-003440

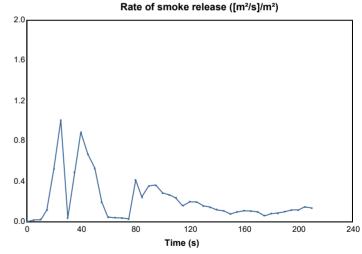
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Order Number: 9030









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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.

As per AS 5637.1 Clause 9(n) it was valid to test this particular material / system in the cone calorimeter for the assignment of a NCC Group Number.

Test Sponsor: Specialty Theatre Supplies

40 Tennyson Street
Williamstown VIC 3016

Test Number : 23-003440

Issue Date : 11/09/2023 Print Date : 25/09/2023

Sponsor Product: Clients Ref: "565 gsm IFR Wool"

Milled woven fabric Colour : Black

End Use: Theatre Drapery
Nominal Composition: Wool

Nominal Mass per Unit Area/Density: 565g/m2





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Group Number Assessment

(In accordance with AS 5637.1-2015

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Test Sponsor: Specialty Theatre Supplies

40 Tennyson Street Issue Date
Williamstown VIC 3016 Print Date

1

Test Number :

23-003440

11/09/2023

25/09/2023

Product Group Number Classification :

Average Specific Extinction Area: 54.6 m²/kg

Chris Campbell
Client Relations Manager

66388