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** : 23-002793 **Issue Date** : 3/08/2023

Print Date : 10/08/2023

9030

Order Number:

Sample Description Clients Ref: "420gsm IFR Wool"

Milled woven fabric Colour: Black

End Use: Theatre Drapery
Nominal Composition: Wool

Nominal Mass per Unit Area/Density: 420g/m2



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MICHAEL A. JACKSON B.Sc.(Hons)

Fiona McDonald

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**Print Date** : 10/08/2023

9030

Order Number:

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

Face tested: Face

Date tested: 03-08-2023

Smoke release, log d 0.0442 -0.9474

Optical density, d 0.1157 / metre

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

Regulatory Indices:

Ignitability Index0Range 0-20Spread of Flame Index0Range 0-10Heat Evolved Index0Range 0-10Smoke Developed Index4Range 0-10

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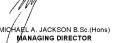
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40 Tennyson Street Williamstown VIC 3016 Test Number : 23-002793 Issue Date : 3/08/2023

Issue Date : 3/08/2023 Print Date : 10/08/2023

Order Number: 9030

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.

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 2 mm 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.

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.

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#### **TEST REPORT**

Client: Specialty Theatre Supplies

40 Tennyson Street Williamstown VIC 3016 **Test Number** : 23-002792

Issue Date : 20/07/2023 Print Date : 25/07/2023

Order Number: 9030

Sample Description Clients Ref : "420gsm IFR Wool"

Milled woven fabric

Colour: Black

End Use: Theatre Drapery

Nominal Composition: Wool

Nominal Mass per Unit Area/Density: 420g/m2

Nominal Thickness: Approx: 1mm



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40 Tennyson Street Williamstown VIC 3016 **Test Number** : 23-002792

Issue Date : 20/07/2023
Print Date : 25/07/2023

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 20-07-2023

Operator AWTA Test Operator 9

Face Tested FACE

Specimen

	1	2	3	Mean	
Average Heat Release Rate	18.3	21.1	21.1	20.2	kW/m²
Average Specific extinction area	104.4	46.8	43.8	65.0	m²/kg

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

Specimen

Test orientation: Horizontal

1	2	3	Mean	
50	50	50	50	kW/m²
024	0.024	0.024	0.024	m³/s
19	18	20	19	sec
200	199	201	200	sec
95.1	119.9	99.9	105.0	kW/m²
46.4	54.8	54.1	51.8	kW/m²
18.3	21.5	21.1	20.3	kW/m²
n/a	n/a	n/a	n/a	kW/m²
3.3	3.9	3.8	3.6	MJ/m²
6.3	5.1	4.8	5.4	MJ/kg
7.6	7.6	7.6	7.6	mm
93.6	86.8	86.3	88.9	g
39.3	80.8	79.9	83.3	g
4.6	6.9	7.4	6.3	%
	50 .024 19 200 95.1 46.4 18.3 n/a 3.3 6.3 7.6 93.6	50 50 .024 0.024 19 18 200 199 95.1 119.9 46.4 54.8 18.3 21.5 n/a n/a 3.3 3.9 6.3 5.1 7.6 7.6 93.6 86.8 89.3 80.8	50     50     50       .024     0.024     0.024       19     18     20       200     199     201       95.1     119.9     99.9       46.4     54.8     54.1       18.3     21.5     21.1       n/a     n/a     n/a       3.3     3.9     3.8       6.3     5.1     4.8       7.6     7.6     7.6       93.6     86.8     86.3       89.3     80.8     79.9	50         50         50         50           .024         0.024         0.024         0.024           19         18         20         19           200         199         201         200           95.1         119.9         99.9         105.0           46.4         54.8         54.1         51.8           18.3         21.5         21.1         20.3           n/a         n/a         n/a         n/a           3.3         3.9         3.8         3.6           6.3         5.1         4.8         5.4           7.6         7.6         7.6         7.6           93.6         86.8         86.3         88.9           89.3         80.8         79.9         83.3

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Fiona McDonald

MICHAEL A. JACKSON B.Sc.(Hons)

## AWTA Product Testing

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#### TEST REPORT

Specialty Theatre Supplies Client:

40 Tennyson Street

Williamstown VIC 3016

23-002792 Test Number :

20/07/2023 **Issue Date Print Date** 25/07/2023

9030 Order Number:

0.5 0.7 8.0 0.7 Mass loss kg/m<sup>2</sup> 2.9 4.1 4.2 3.7 g/m<sup>2</sup>.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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#### **TEST REPORT**

Client: Specialty Theatre Supplies

40 Tennyson Street Williamstown VIC 3016 **Test Number** : 23-002792

Issue Date : 20/07/2023 Print Date : 25/07/2023

Order Number: 9030

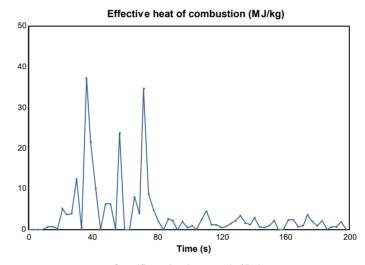
# Heat release rate (kW/m²) Heat release rate (kW/m²) 80 60 40 20

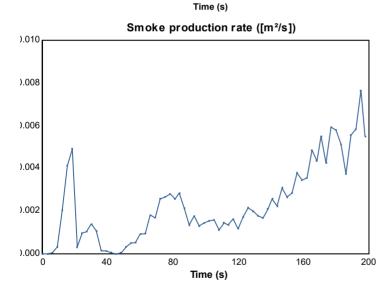
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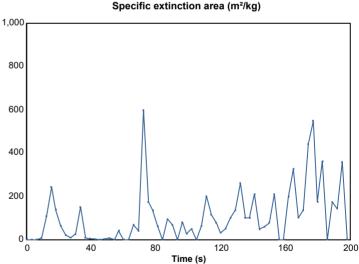
120

160

200







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Fiona McDonald

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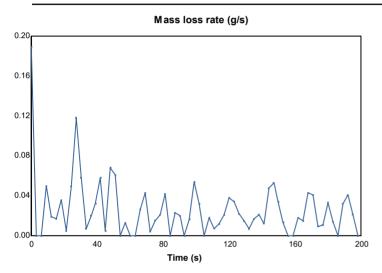
#### **TEST REPORT**

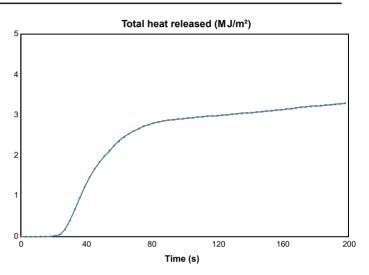
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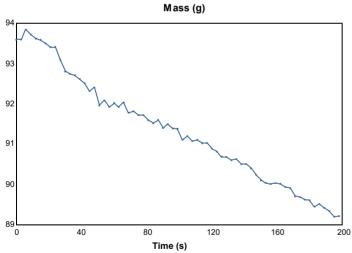
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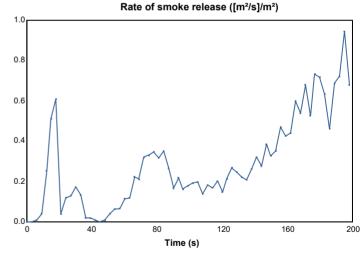
Issue Date : 20/07/2023 Print Date : 25/07/2023

Order Number: 9030









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Client: Specialty Theatre Supplies

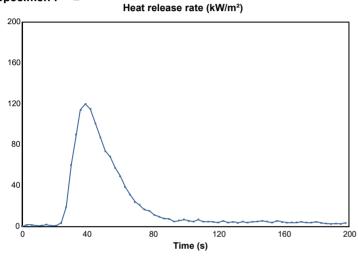
40 Tennyson Street
Williamstown VIC 3016

Test Number : 23-002792

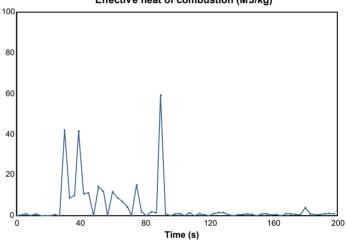
Issue Date : 20/07/2023 Print Date : 25/07/2023

Order Number: 9030

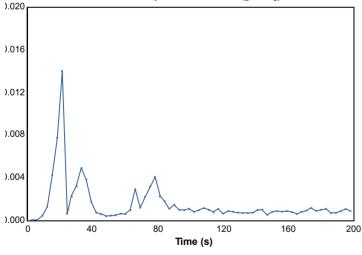
#### Specimen: 2



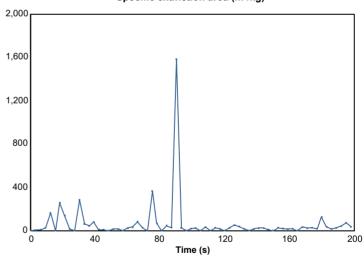
#### Effective heat of combustion (MJ/kg)



#### Smoke production rate ([m²/s])



#### Specific extinction area (m²/kg)



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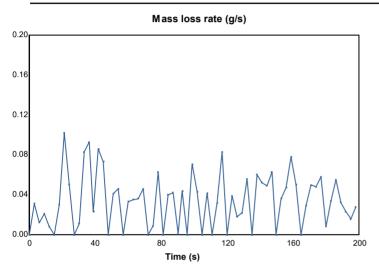
#### **TEST REPORT**

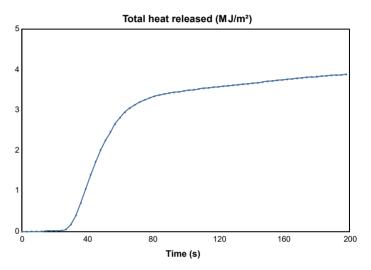
Client: Specialty Theatre Supplies

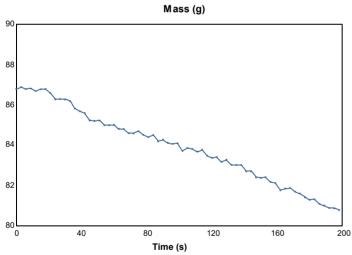
40 Tennyson Street Williamstown VIC 3016 **Test Number** : 23-002792 **Issue Date** : 20/07/2023

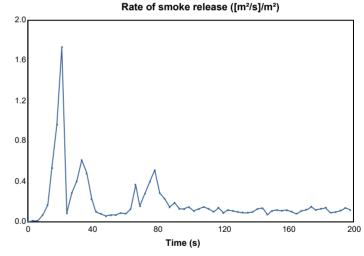
**Print Date** : 25/07/2023

Order Number: 9030









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#### **TEST REPORT**

**Specialty Theatre Supplies** Client:

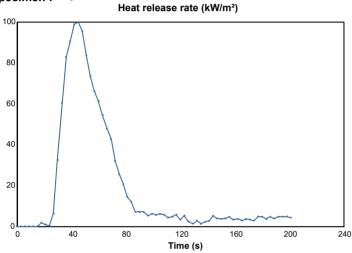
> 40 Tennyson Street Williamstown VIC 3016

23-002792 Test Number :

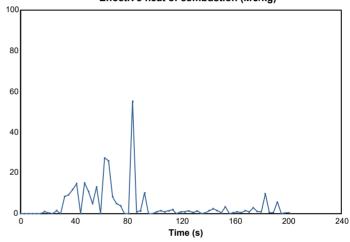
Issue Date 20/07/2023 25/07/2023 **Print Date** 

9030 **Order Number:** 

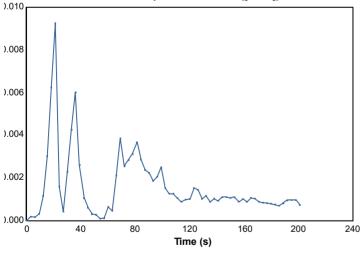
### 3 Specimen:



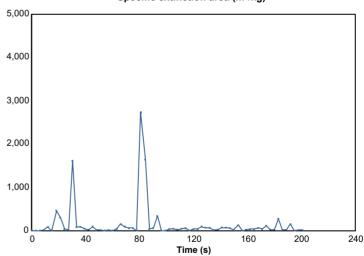
#### Effective heat of combustion (MJ/kg)



#### Smoke production rate ([m²/s])



#### Specific extinction area (m²/kg)



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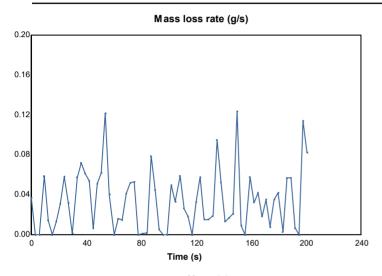
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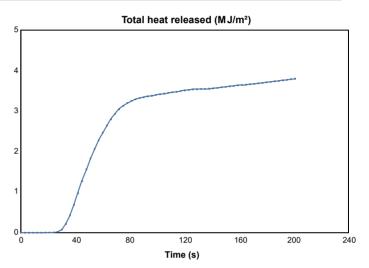
Client: Specialty Theatre Supplies

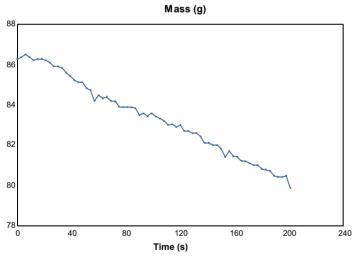
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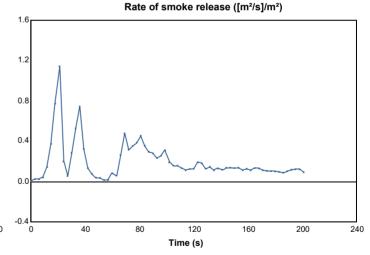
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## **Group Number Assessment**

(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.

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** : 23-002792 **Issue Date** : 20/07/2023

**Print Date** : 25/07/2023

Sponsor Product: Clients Ref: "420gsm IFR Wool"

Milled woven fabric Colour : Black

End Use: Theatre Drapery Nominal Composition: Woo

Nominal Mass per Unit Area/Density: 420g/m2

Nominal Thickness: Approx: 1mm



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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 : 23-002792 Issue Date : 20/07/2023

Print Date : 25/07/2023

Product Group Number Classification:

Average Specific Extinction Area:

65.0

1

m²/kg

Al Deld.

Fiona McDonald Testing Technologist

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