

# 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 ISO 5660.1-2015 Method of test for heat and smoke release rates for materials and products using an oxygen consumption calorimeter.

**Test Sponsor :** The Laminex Group  
22 Trewin Street  
Wendouree VIC 3355

**Test Number :** 16-003199  
**Issue Date :** 11/07/2016  
**Print Date :** 29/08/2016

**Sponsor Product** Clients Ref : "Sample 19060: Finished Natural Timber Vener (FNTV)"  
Timber Veneer  
Nominal Composition : Natural wood veneer with melamine coating  
Nominal Mass per Unit Area/Density : 820kg/m3  
Nominal Thickness : 19mm

Product Group Number Classification : 3  
Average Specific Extinction Area : 18.2 m<sup>2</sup>/kg



Chris Campbell  
Client Relations Manager

13062

The message/document(s) contained in this electronic attachment is intended for the party to which it is addressed and may contain confidential information or be subject to professional privilege. It's transmission is not intended to place the contents into the public domain.

If you have received this transmission in error, it's disclosure or copying is prohibited. Please contact us by collect call so that arrangements can be made at our expense to rectify the error.

# 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 :** The Laminex Group  
22 Trewin Street  
Wendouree VIC 3355

**Test Number :** 16-003199  
**Issue Date :** 11/07/2016  
**Print Date :** 12/07/2016  
**Order Number :** 2080

**Sample Description** Clients Ref : "Sample 19060: Finished Natural Timber Vener (FNTV)"  
Timber Veneer  
Nominal Composition : Natural wood veneer with melamine coating  
Nominal Mass per Unit Area/Density : 820kg/m<sup>3</sup>  
Nominal Thickness : 19mm

### 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)

	Specimen			Mean	
	1	2	3		
Average Heat Release Rate	94.4	96.5	92.3	94.4	kW/m <sup>2</sup>
Group Number Classification	3	3	3		
(In Accordance with New Zealand Building Code Verification Method C/VM2 Appendix A)					
Average Specific extinction area	18.2	19.6	16.9	18.2	m <sup>2</sup> /kg

Test orientation : Horizontal

	Specimen			Mean	
	1	2	3		
Irradiance	50	50	50	50	kW/m <sup>2</sup>
Exhaust flow rate	24	24	24	24	L/sec
Time to sustained flaming	26	21	35	27	sec
Test duration	1826	1821	1835	1827	sec

37226

13062

Page 1 of 8

© Australian Wool testing Authority Ltd  
Copyright - All Rights Reserved



Accredited for compliance with ISO/IEC 17025  
- Chemical Testing  
- Mechanical Testing  
- Performance & Approvals Testing

: Accreditation No. 983  
: Accreditation No. 985  
: Accreditation No. 1356



Samples and their identifying descriptions have been provided by the client unless otherwise stated. AWTA Ltd makes no warranty, implied or otherwise, as to the source of the tested samples. The above test results relate only to the sample or samples tested. This document shall not be reproduced except in full and shall be rendered void if amended or altered. This document, the names AWTA Product Testing and AWTA Ltd may be used in advertising providing the content and format of the advertisement have been approved by the Managing Director of AWTA Ltd.

APPROVED SIGNATORY

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

# 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 :** The Laminex Group  
22 Trewin Street  
Wendouree VIC 3355

**Test Number :** 16-003199  
**Issue Date :** 11/07/2016  
**Print Date :** 12/07/2016  
**Order Number :** 2080

Peak heat release after ignition	157.5	158.1	153.0	156.2	kW/m <sup>2</sup>
Average heat at 60 s	128.2	121.3	102.8	117.4	kW/m <sup>2</sup>
Average heat at 180 s	118.6	109.1	112.4	113.4	kW/m <sup>2</sup>
Average heat at 300 s	122.4	116.0	118.9	119.1	kW/m <sup>2</sup>
Total heat released	170.0	173.5	166.2	169.9	MJ/m <sup>2</sup>
Average effective heat of combustion	11.9	12.1	11.5	11.8	MJ/kg
Initial thickness	19.0	19.0	19.0	19.0	mm
Initial mass	154.4	154.8	155.1	154.8	g
Mass remaining	37.9	38.1	37.8	37.9	g
Mass percentage pyrolysed	75.4	75.4	75.7	75.5	%
Mass loss	116.5	116.7	117.3	116.8	g
Average rate of mass loss	8.0	8.0	8.0	8.0	g/m <sup>2</sup> .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.

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

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

37226

13062

Page 2 of 8

© Australian Wool testing Authority Ltd  
Copyright - All Rights Reserved



Accredited for compliance with ISO/IEC 17025  
- Chemical Testing  
- Mechanical Testing  
- Performance & Approvals Testing

: Accreditation No. 983  
: Accreditation No. 985  
: Accreditation No. 1356



Samples and their identifying descriptions have been provided by the client unless otherwise stated. AWTA Ltd makes no warranty, implied or otherwise, as to the source of the tested samples. The above test results relate only to the sample or samples tested. This document shall not be reproduced except in full and shall be rendered void if amended or altered. This document, the names AWTA Product Testing and AWTA Ltd may be used in advertising providing the content and format of the advertisement have been approved by the Managing Director of AWTA Ltd.

APPROVED SIGNATORY

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

# 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

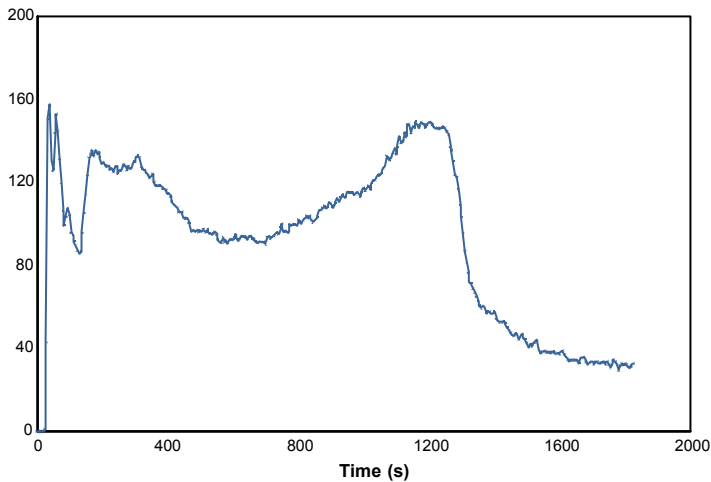
## TEST REPORT

**Client :** The Laminex Group  
22 Trewin Street  
Wendouree VIC 3355

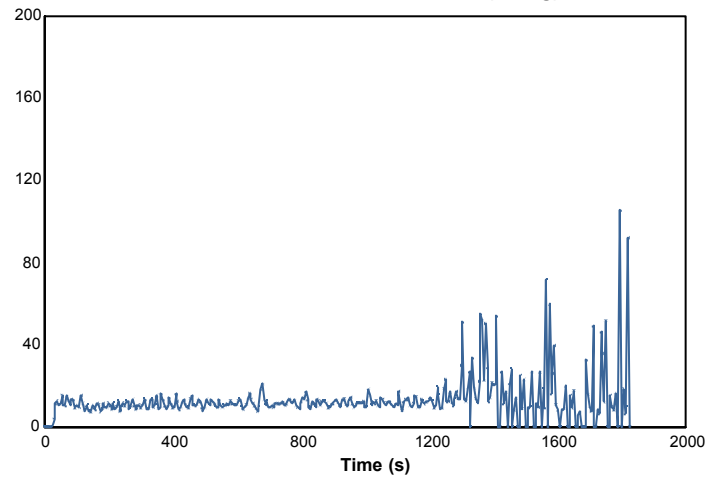
**Test Number :** 16-003199  
**Issue Date :** 11/07/2016  
**Print Date :** 12/07/2016  
**Order Number :** 2080

**Specimen :** 1

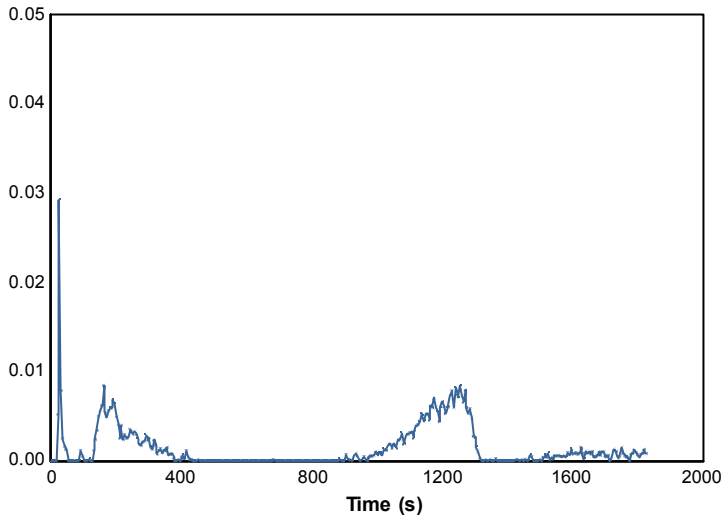
Heat release rate (kW/m<sup>2</sup>)



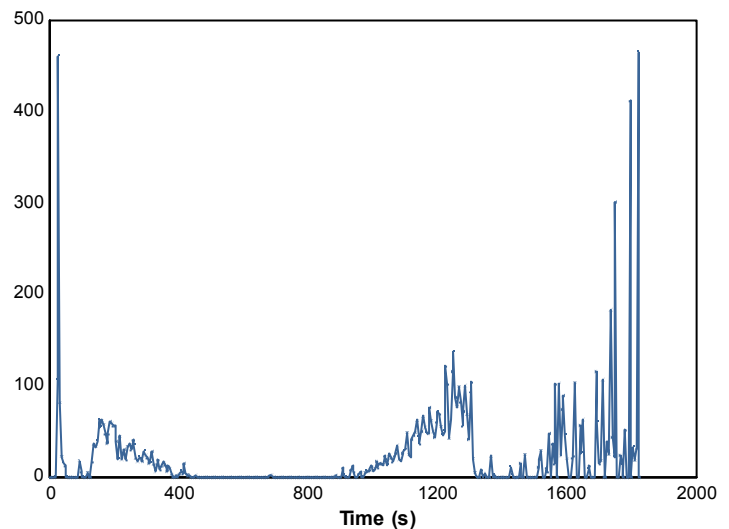
Effective heat of combustion (MJ/kg)



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



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



37226

13062

Page 3 of 8

© Australian Wool testing Authority Ltd  
Copyright - All Rights Reserved



Accredited for compliance with ISO/IEC 17025  
- Chemical Testing  
- Mechanical Testing  
- Performance & Approvals Testing

: Accreditation No. 983  
: Accreditation No. 985  
: Accreditation No. 1356



Samples and their identifying descriptions have been provided by the client unless otherwise stated. AWTA Ltd makes no warranty, implied or otherwise, as to the source of the tested samples. The above test results relate only to the sample or samples tested. This document shall not be reproduced except in full and shall be rendered void if amended or altered. This document, the names AWTA Product Testing and AWTA Ltd may be used in advertising providing the content and format of the advertisement have been approved by the Managing Director of AWTA Ltd.

APPROVED SIGNATORY

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

# 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

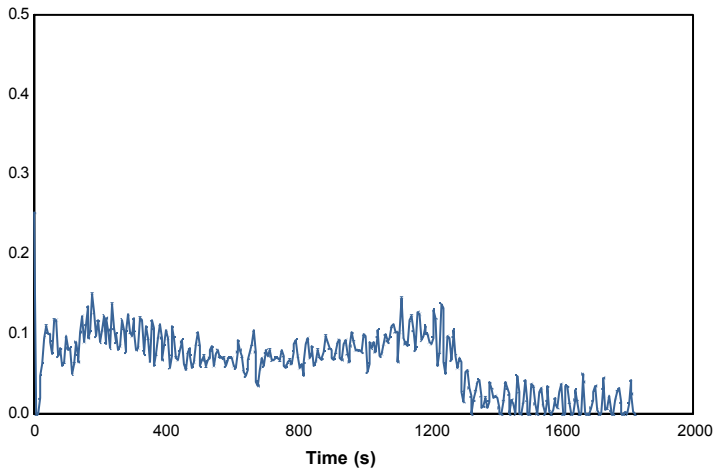
Phone (03) 9371 2400 Fax (03) 9371 2499

## TEST REPORT

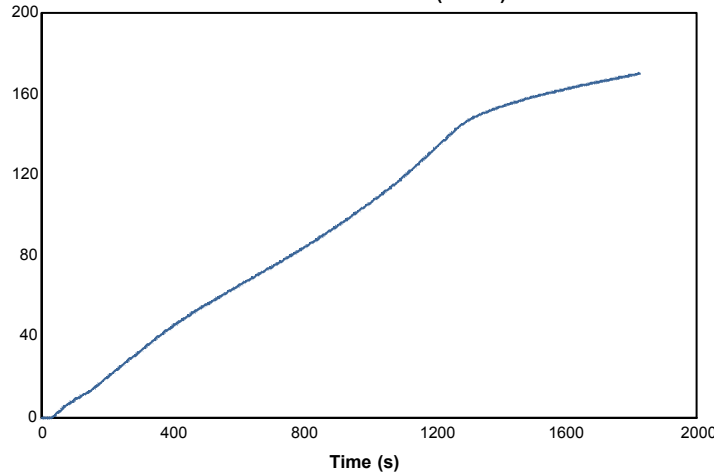
**Client :** The Laminex Group  
22 Trewin Street  
Wendouree VIC 3355

**Test Number :** 16-003199  
**Issue Date :** 11/07/2016  
**Print Date :** 12/07/2016  
**Order Number :** 2080

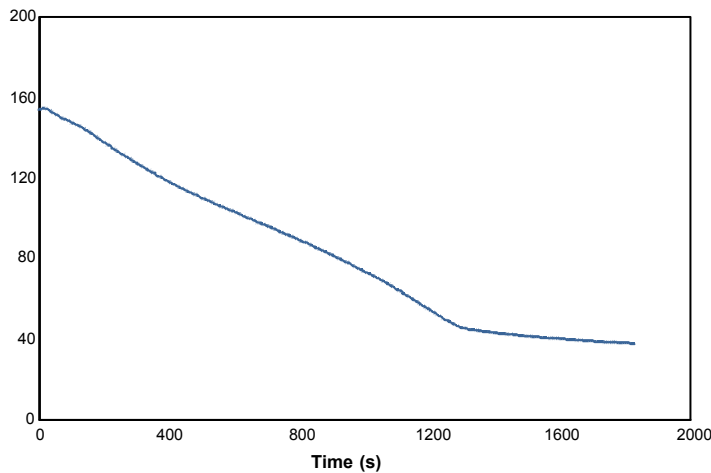
Mass loss rate (g/s)



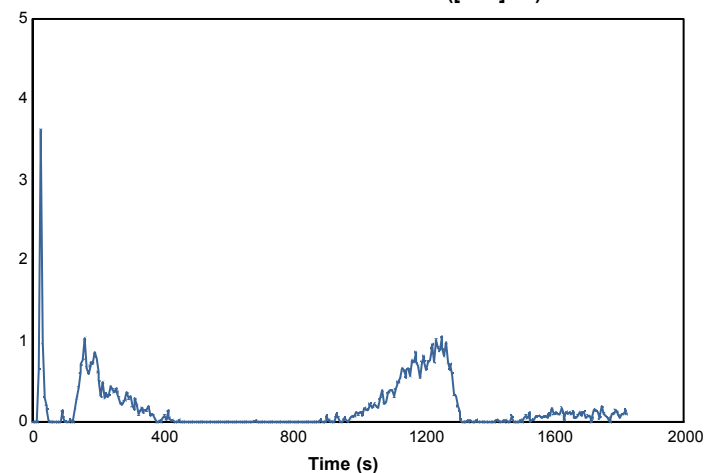
Total heat released (MJ/m<sup>2</sup>)



Mass (g)



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



37226

13062

Page 4 of 8

© Australian Wool testing Authority Ltd  
Copyright - All Rights Reserved



Accredited for compliance with ISO/IEC 17025

- Chemical Testing  
- Mechanical Testing  
- Performance & Approvals Testing

: Accreditation No. 983  
: Accreditation No. 985  
: Accreditation No. 1356



Samples and their identifying descriptions have been provided by the client unless otherwise stated. AWTA Ltd makes no warranty, implied or otherwise, as to the source of the tested samples. The above test results relate only to the sample or samples tested. This document shall not be reproduced except in full and shall be rendered void if amended or altered. This document, the names AWTA Product Testing and AWTA Ltd may be used in advertising providing the content and format of the advertisement have been approved by the Managing Director of AWTA Ltd.

APPROVED SIGNATORY

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

# 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

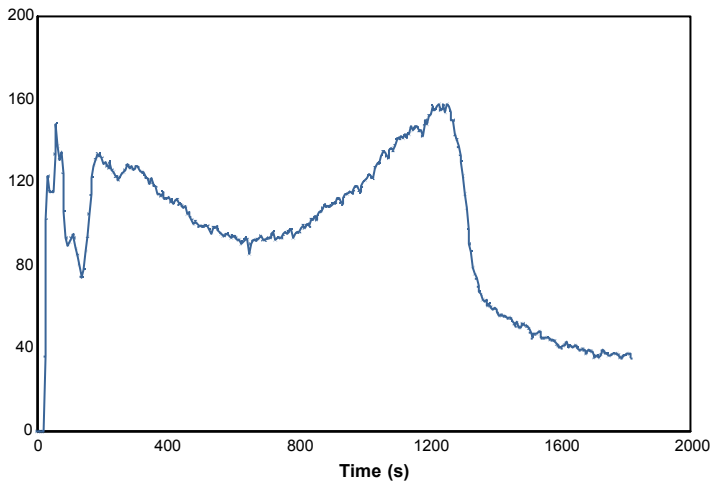
## TEST REPORT

**Client :** The Laminex Group  
22 Trewin Street  
Wendouree VIC 3355

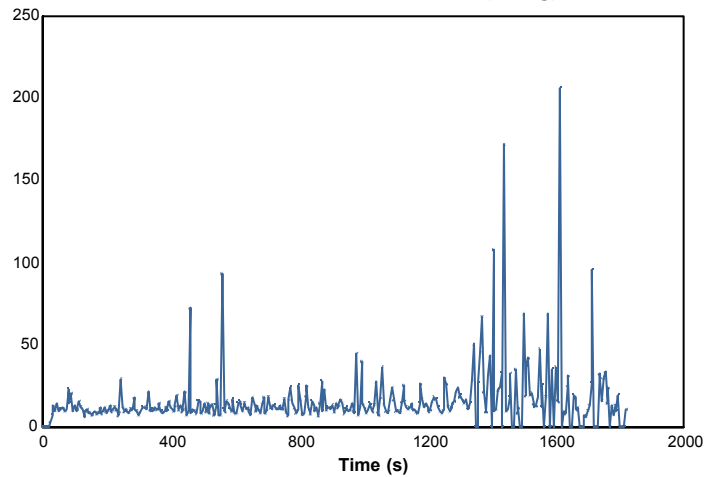
**Test Number :** 16-003199  
**Issue Date :** 11/07/2016  
**Print Date :** 12/07/2016  
**Order Number :** 2080

**Specimen :** 2

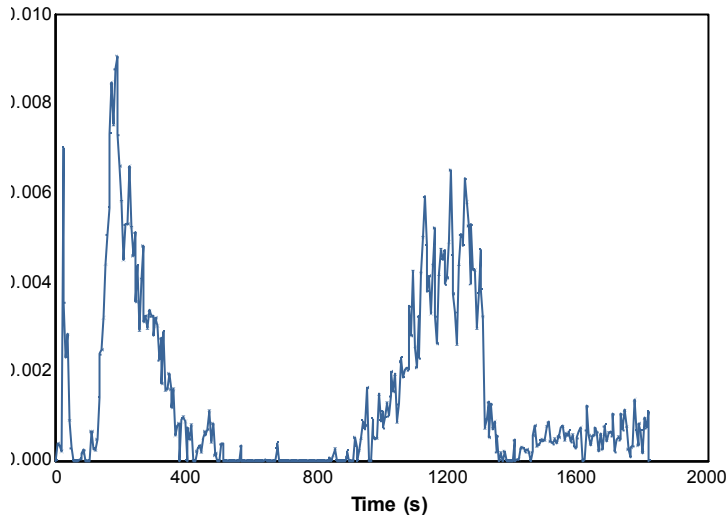
Heat release rate (kW/m<sup>2</sup>)



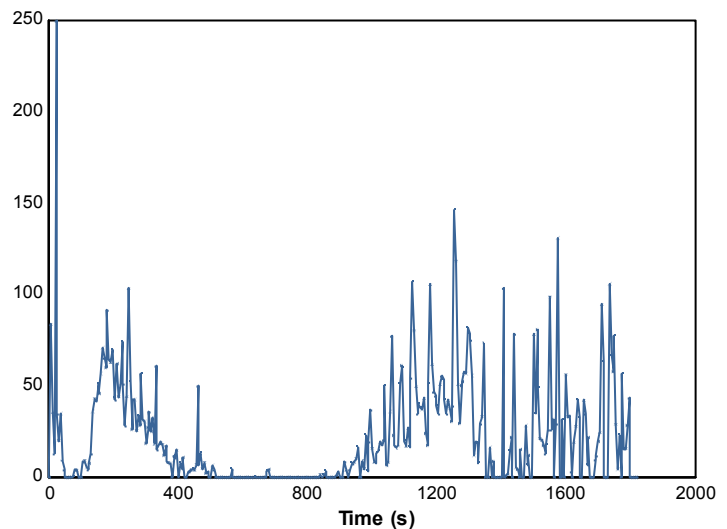
Effective heat of combustion (MJ/kg)



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



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



37226

13062

Page 5 of 8

© Australian Wool testing Authority Ltd  
Copyright - All Rights Reserved



Accredited for compliance with ISO/IEC 17025  
- Chemical Testing  
- Mechanical Testing  
- Performance & Approvals Testing

: Accreditation No. 983  
: Accreditation No. 985  
: Accreditation No. 1356



Samples and their identifying descriptions have been provided by the client unless otherwise stated. AWTA Ltd makes no warranty, implied or otherwise, as to the source of the tested samples. The above test results relate only to the sample or samples tested. This document shall not be reproduced except in full and shall be rendered void if amended or altered. This document, the names AWTA Product Testing and AWTA Ltd may be used in advertising providing the content and format of the advertisement have been approved by the Managing Director of AWTA Ltd.

APPROVED SIGNATORY

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

# 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

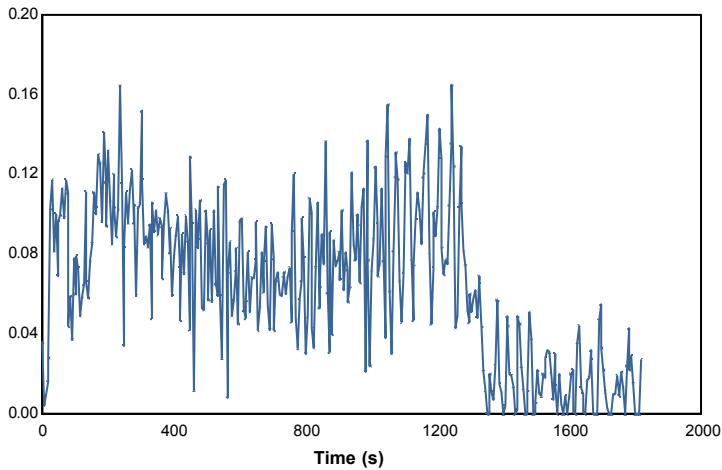
Phone (03) 9371 2400 Fax (03) 9371 2499

## TEST REPORT

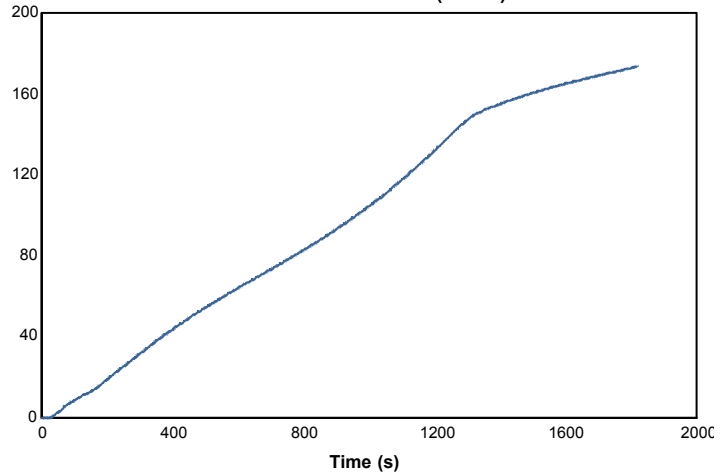
**Client :** The Laminex Group  
22 Trewin Street  
Wendouree VIC 3355

**Test Number :** 16-003199  
**Issue Date :** 11/07/2016  
**Print Date :** 12/07/2016  
**Order Number :** 2080

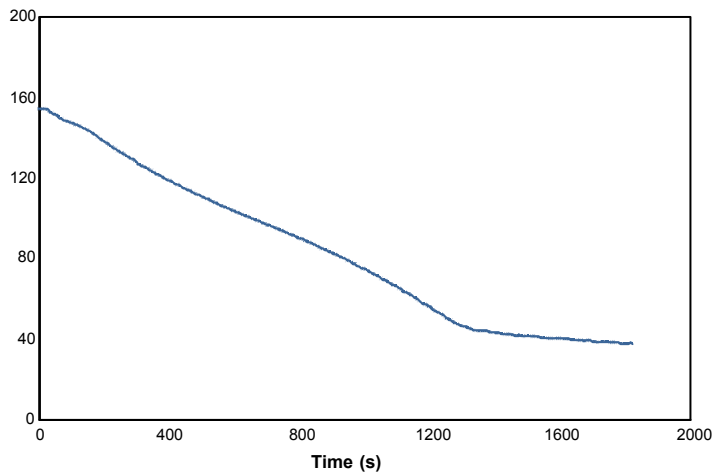
Mass loss rate (g/s)



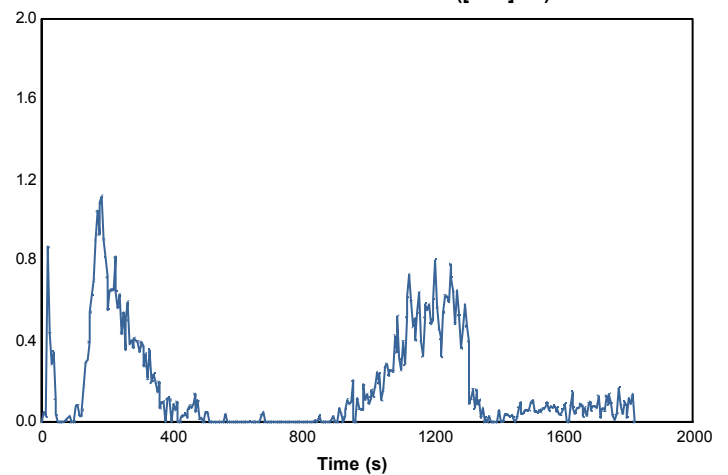
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release (l/m²/s)/m²



37226

13062

Page 6 of 8

© Australian Wool testing Authority Ltd  
Copyright - All Rights Reserved



Accredited for compliance with ISO/IEC 17025  
- Chemical Testing  
- Mechanical Testing  
- Performance & Approvals Testing

: Accreditation No. 983  
: Accreditation No. 985  
: Accreditation No. 1356



Samples and their identifying descriptions have been provided by the client unless otherwise stated. AWTA Ltd makes no warranty, implied or otherwise, as to the source of the tested samples. The above test results relate only to the sample or samples tested. This document shall not be reproduced except in full and shall be rendered void if amended or altered. This document, the names AWTA Product Testing and AWTA Ltd may be used in advertising providing the content and format of the advertisement have been approved by the Managing Director of AWTA Ltd.

APPROVED SIGNATORY

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

# 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

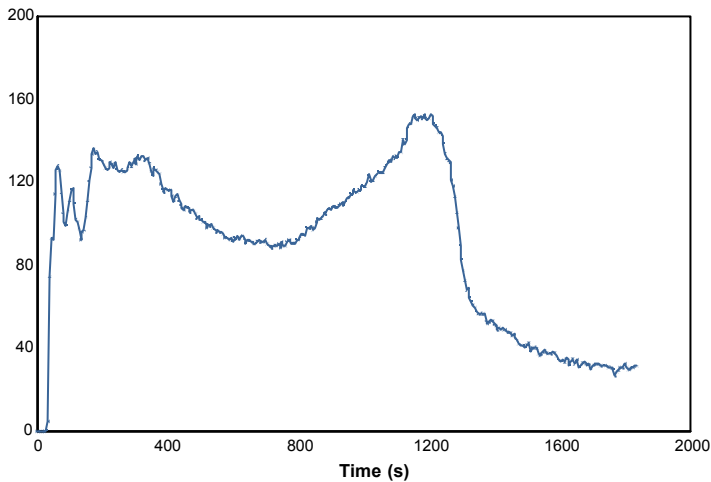
## TEST REPORT

**Client :** The Laminex Group  
22 Trewin Street  
Wendouree VIC 3355

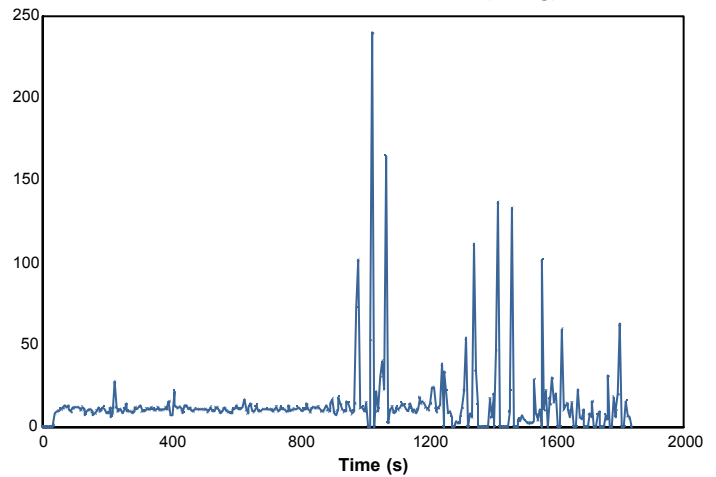
**Test Number :** 16-003199  
**Issue Date :** 11/07/2016  
**Print Date :** 12/07/2016  
**Order Number :** 2080

**Specimen :** 3

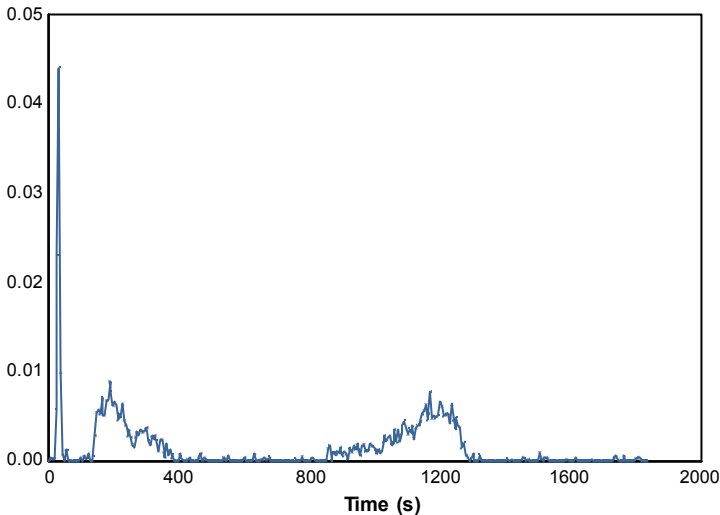
Heat release rate (kW/m<sup>2</sup>)



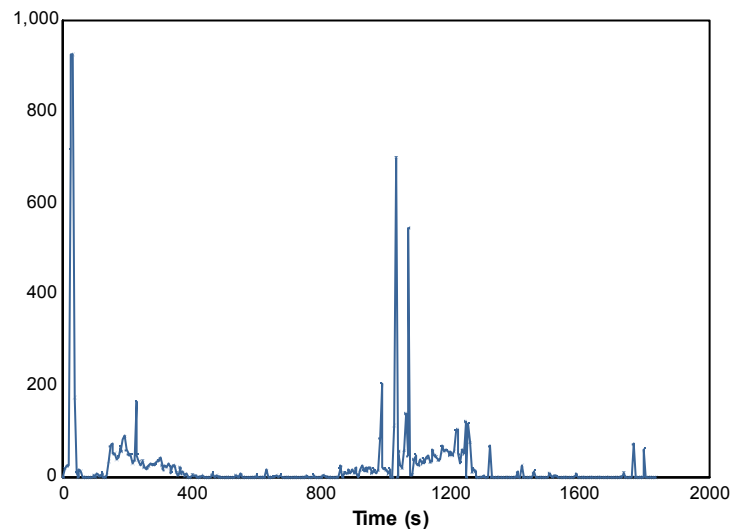
Effective heat of combustion (MJ/kg)



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



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



37226

13062

Page 7 of 8

© Australian Wool testing Authority Ltd  
Copyright - All Rights Reserved



Accredited for compliance with ISO/IEC 17025

- Chemical Testing  
- Mechanical Testing  
- Performance & Approvals Testing

: Accreditation No. 983  
: Accreditation No. 985  
: Accreditation No. 1356



Samples and their identifying descriptions have been provided by the client unless otherwise stated. AWTA Ltd makes no warranty, implied or otherwise, as to the source of the tested samples. The above test results relate only to the sample or samples tested. This document shall not be reproduced except in full and shall be rendered void if amended or altered. This document, the names AWTA Product Testing and AWTA Ltd may be used in advertising providing the content and format of the advertisement have been approved by the Managing Director of AWTA Ltd.

APPROVED SIGNATORY

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



# 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

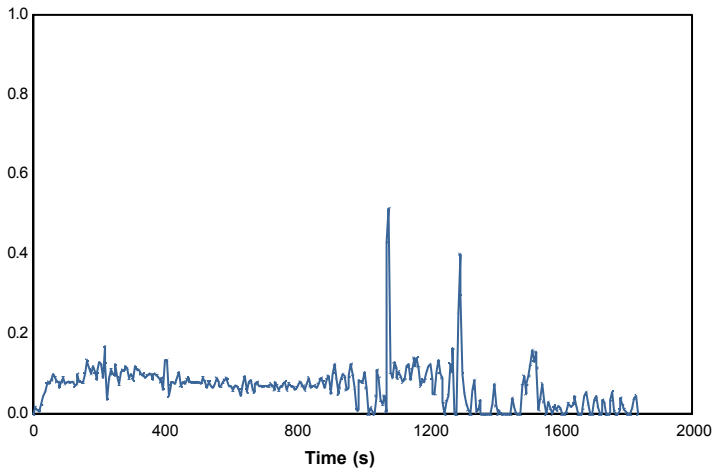
Phone (03) 9371 2400 Fax (03) 9371 2499

## TEST REPORT

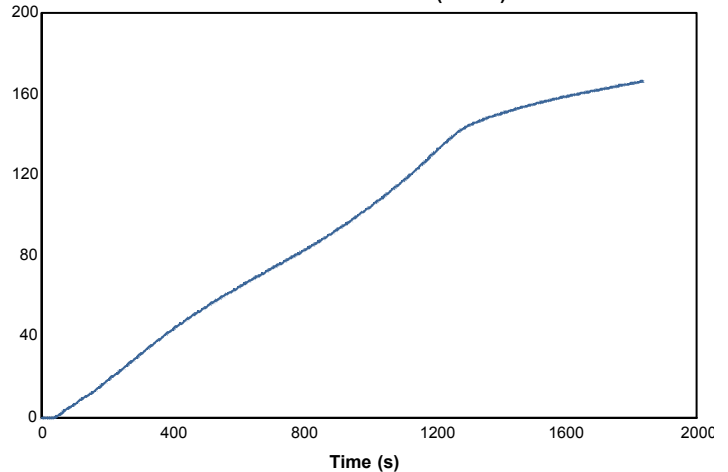
**Client :** The Laminex Group  
22 Trewin Street  
Wendouree VIC 3355

**Test Number :** 16-003199  
**Issue Date :** 11/07/2016  
**Print Date :** 12/07/2016  
**Order Number :** 2080

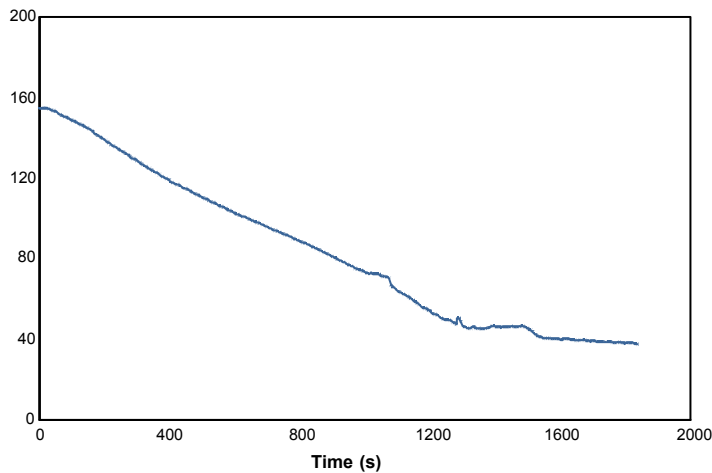
Mass loss rate (g/s)



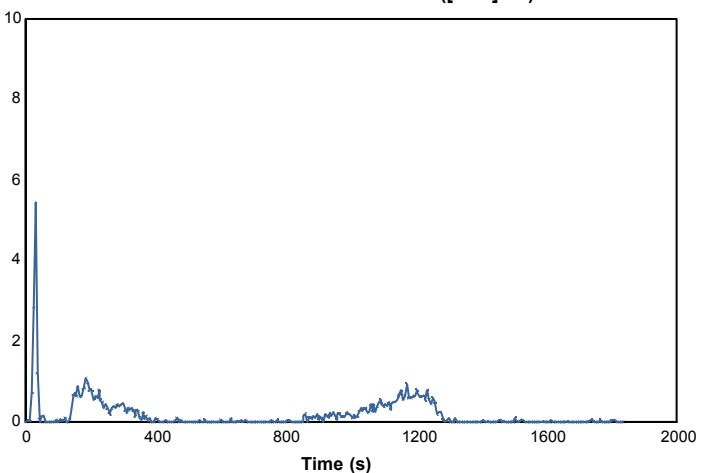
Total heat released (MJ/m<sup>2</sup>)



Mass (g)



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



37226

13062

Page 8 of 8

© Australian Wool testing Authority Ltd  
Copyright - All Rights Reserved



Accredited for compliance with ISO/IEC 17025

- Chemical Testing  
- Mechanical Testing  
- Performance & Approvals Testing

: Accreditation No. 983  
: Accreditation No. 985  
: Accreditation No. 1356



Samples and their identifying descriptions have been provided by the client unless otherwise stated. AWTA Ltd makes no warranty, implied or otherwise, as to the source of the tested samples. The above test results relate only to the sample or samples tested. This document shall not be reproduced except in full and shall be rendered void if amended or altered. This document, the names AWTA Product Testing and AWTA Ltd may be used in advertising providing the content and format of the advertisement have been approved by the Managing Director of AWTA Ltd.

APPROVED SIGNATORY

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