

AWTA PRODUCT TESTING

A Division of Australian Wool Testing Authority Limited

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A.B.N. 43 006 014 106

Group Number Assessment (in accordance with AS 5637.1-2015)

Number: 7-585323-CV
Issue Date: 06/09/2016

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.

AWTA Product Testing report number: 7-585323-CV

Date of Test: 08/06/2012

Test Sponsor

The Laminex Group
PO Box 720
Wendouree Vic 3355

Sponsor Product Reference: "Laminex Alfresco Compact Laminate – 13mm"

Sponsor Product Description: Laminate

Colour: Woodgrain, Carbide finish

Nominal Composition: Multiple layers of paper impregnated with formaldehyde resin fused under heat and pressure Thickness: 13mm Density: 18.5kg/m²

Product Group Number Classification: Group 3
Average Specific Extinction Area: 61.9m²/kg

Chris Campbell
Client Relations Manager

It should be borne in mind that the opinions expressed in this letter are based on a limited number of observations made on a single sample and may be subject to alteration if more detailed testing was to be carried out. We recommend that you have further testing conducted if the information above is critical to your decisions on this product.

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P.O. Box 240, North Melbourne, Victoria 3051
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TEST REPORT

CLIENT : THE LAMINEX GROUP
PO BOX 720
WENDOUREE VIC 3355

TEST NUMBER : 7-585323-CV
ISSUE DATE : 08/06/2012
PRINT DATE : 08/06/2012
ORDER NUMBER : 1820

SAMPLE DESCRIPTION Sample 10872
Laminex Alfresco Laminate
Woodgrain Colour, Carbide Finish
Multiple layers of paper impregnated with formaldehyde resin
fused under heat and pressure
Thickness: 13mm, Mass 18.5 kg/m²

AS/NZS 3837:1998 Method of Test for Heat and Smoke Release Rates
for Materials and Products Using an Oxygen
Consumption Calorimeter

Results:-

| | Specimen | | | Mean | |
|---------------------------|----------|-------|-------|-------|-------------------|
| | 1 | 2 | 3 | | |
| Average Heat Release Rate | 103.2 | 109.2 | 108.8 | 107.1 | kW/m ² |

| | | | | | |
|--|------|------|------|------|--------------------|
| Average Specific extinction area (according to Specification C1.10 of the Building Code of Australia) | 54.3 | 56.7 | 74.7 | 61.9 | m ² /kg |
|--|------|------|------|------|--------------------|

Test orientation: Horizontal

| | Specimen | | | Mean | |
|---------------------------|----------|------|------|------|-------------------|
| | 1 | 2 | 3 | | |
| Irradiance | 50 | 50 | 50 | 50 | kW/m ² |
| Exhaust flow rate | 24 | 24 | 24 | 24 | l/s |
| Time to sustained flaming | 64 | 64 | 63 | 64 | s |
| Test duration | 1948 | 1816 | 1944 | 1903 | s |

Heat release rate curve on the 9 attached sheets which form part of this report

| | | | | | |
|--------------------------------------|-------|-------|-------|-------|-------------------|
| Peak heat release after ignition | 155.4 | 162.5 | 169.2 | 162.4 | kW/m ² |
| Average heat at 60s | 73.1 | 60.3 | 65.5 | 66.3 | kW/m ² |
| Release rate at 180s | 89.5 | 87.8 | 89.4 | 88.9 | kW/m ² |
| After ignition at 300s | 91.7 | 94.6 | 99.0 | 95.1 | kW/m ² |
| Total heat released | 195.1 | 191.7 | 205.2 | 197.3 | MJ/m ² |
| Average effective heat of combustion | 12.3 | 12.0 | 12.7 | 12.3 | MJ/kg |

194229

1

CONTINUED NEXT PAGE

PAGE 1

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This Laboratory is accredited by the National Association of Testing Authorities, Australia, for:
-Chemical Testing of Textiles & Related Products : Accreditation No. 983
-Mechanical Testing of Textiles & Related Products : Accreditation No. 985
-Heat & Temperature Measurement : Accreditation No. 1356

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| | | | | | |
|------------------------------|-------|-------|-------|-------|--------|
| Initial thickness | 13.0 | 13.0 | 13.0 | 13.0 | mm |
| Initial mass | 184.5 | 186.7 | 187.8 | 186.3 | g |
| Mass remaining | 55.5 | 56.3 | 56.1 | 56.0 | g |
| Mass percentage pyrolysed | 69.9 | 69.8 | 70.1 | 70.0 | % |
| Mass loss | 129.0 | 130.4 | 131.7 | 130.4 | g |
| Average rate of mass loss | 8.4 | 9.1 | 8.6 | 8.7 | g/m2.s |

The formulae given in the Building Code of Australia have been shown to give inaccuracies in determination of Group Number for certain materials. Due to this AWTA Product Testing no longer reports Group Numbers. The formulae for calculation of Group Number is available from the website of the Australian Building Codes Board. Group Number calculation based on the results described in this report can be undertaken at the clients discretion

Tests were conducted with a wire grid placed over the sample during testing. This was done to contain intumescent 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 the assessment of performance under real fire conditions

194229

1

(END OF REPORT)

PAGE 2

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