



Date: 16th of Feb 2022

Application Number: SSD 10349

Project Address: TAFE NSW Meadowbank Campus, See Street, Meadowbank Lot 11 DP1232584

Milestone: Multi Storey Carpark

Re: Letter of Compliance – Installation of External Walls & Cladding – Condition D2

Atlantic Interiors hereby certify the installation of external walls and cladding to the Multi Storey Carpark limited to the risers have been installed in accordance with NCC 2019 (Including Amendment 1) being compliant with AS/NZS 4200.1:2017 was Adopted in NCC 2019.

Qualifications:

- Diploma in Building Studies
- 25 Years Industry Experience

Attachments: Fire Test Reports and cladding markup

Signed:

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
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TEST REPORT

Client : TBA Protective Technologies
Unit 12, 8 Leighton Place
Hornsby NSW 2077

Test Number : 18-005157
Issue Date : 7/09/2018
Print Date : 7/09/2018

Sample Description Clients Ref : "TBA Firefly Non Combustible Sarking - Breathable EKA 161/1.27m - B"
Woven sarking
Colour : Silver/White
Nominal Composition : Woven glass fibre & Aluminium foil laminate
Nominal Mass per Unit Area/Density : Approx. 230g/m²
Nominal Thickness : 0.2mm

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: | 06/09/2018 | | |
| | Standard Error | Mean | |
| Ignition time | Nil | Nil | min |
| Flame propagation time | Nil | Nil | sec |
| Heat release integral | Nil | Nil | kJ/m ² |
| Smoke release, log d | 0.0256 | -1.8177 | |
| Optical density, d | | 0.0154 | / metre |
| Number of specimens ignited: | | 0 | |
| Number of specimens tested: | | 6 | |
| Regulatory Indices: | | | |
| Ignitability Index | | 0 | Range 0-20 |
| Spread of Flame Index | | 0 | Range 0-10 |
| Heat Evolved Index | | 0 | Range 0-10 |
| Smoke Developed Index | | 0-1 | Range 0-10 |

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- Performance & Approvals Testing : Accreditation No. 1356

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0204/11/06

APPROVED SIGNATORY

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



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Since the heat source for this test is a radiator, a reduction in the reflective properties of certain materials by the deposition of dust and soot, by surface damage and by the formation of surface corrosion products, may produce a significant change in the index numbers from those obtained when the materials were tested in a new and clean condition.

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.

Smoke Developed Index is reported as 0-1 due to the inability of the smoke measurement equipment to resolve an index of zero.

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.

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.

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

Sarking Requirements of NCC 2019 (Including Amendment 1).

| | NCC References | NCC Requirements | Referenced Test Method | TBA Firefly Non-Combustible BREATHABLE Sarking Results | Report Reference | TBA Firefly Non-Combustible NON-BREATHABLE Sarking Results | Report Reference |
|---|-----------------------|---|---------------------------------------|--|---------------------------------------|--|---------------------------------------|
| Non-Combustibility (AS1530.1), Spread Of Flame Index & Smoke Developed Index (AS1530.3) | C1.9 (e)(vii) | Each Lamina, including any core, is non-combustible; and | AS1530.1 test on foil layer | Non-Combustible | CSIRO FNC12071 | Non-Combustible | CSIRO FNC12071 |
| | | | AS1530.1 test on Fortaglas layer | Non-Combustible | CSIRO FNC 11220 | Non-Combustible | CSIRO FNC 11220 |
| | | each adhesive layer does not exceed 1mm in thickness and the total thickness of the adhesive layers does not exceed 2mm; and | n/a | 0.22 mm total thickness of product | N/A | 0.22 mm total thickness of product | N/A |
| | | the Spread-of-Flame Index and the Smoke-Developed Index of the bonded laminated material as a whole do not exceed 0 and 3 respectively. | AS1530.3 | Spread-of-Flame Index: 0 Smoke-Developed Index: 0-1 | AWTA 16-005157 | Spread-of-Flame Index: 0 Smoke-Developed Index: 0-1 | AWTA 16-003250 |
| Flammability Index (AS1530.2) | C1.9 (e)(vi) | Sarking-type materials that do not exceed 1mm in thickness and have a Flammability Index not greater than 5 | AS1530.2 | 0-1 | AWTA 16-003139 | 0-1 | AWTA 16-003139 |
| Vapour Permeable/Vapour Barrier | F6.2 (a)(iii) | Where a pliable building membrane is installed in an external wall, it must be a vapour permeable membrane for climate zones 6, 7 and 8. Also refer to - AS/NZS 4200.1:2017 5.3.4 Vapour control classification | ASTM E96 | Class 3 (Vapour Permeable) | AWTA 19-002276 | Class 2 (Vapour Barrier) | AWTA 21-001096 |
| Water Barrier/Non-Water Barrier | F1.0 and F1.6 | F1.0: Performance Solution to be determined in accordance with NCC A2.2 (3) and A2.4(3) F1.6: Sarking-type material used for weatherproofing of roofs and walls must comply with AS/NZS 4200.1 and AS 4200.2 | AS/NZS 4201.4 or Performance Solution | Water Barrier (Performance Solution Completed by Arcadis). Product acts as a water barrier when installed vertically. | Arcadis 2020-128 | Water Barrier (AS/NZS 4201.4) | AWTA 16-003137 |
| Windload | N/A | As required by the Façade Engineer for each specific building based upon but not limited to, building type and geographical location | AS/NZS 4284 | This product was tested as a stand-alone product and achieved the following results Positive Load Sustained: 4.0 kPa Negative Load Sustained: -4.0 kPa | Ian Bennie and Associates 2019-004-R2 | This product was tested as a stand-alone product and achieved the following results Positive Load Sustained: 5.5 kPa Negative Load Sustained: -5.5 kPa | Ian Bennie and Associates 2019-004-S8 |