Certificate of Test

Quote No.: NR8350 **No. FNR12575C**

This is to certify that the specimen described below was tested by CSIRO Infrastructure Technologies in accordance with Australian Standard ISO 9239, Reaction to fire tests for floorings, Part 1: Determination of the burning behaviour using a radiant heat source, 2003, on behalf of:

Wooly Investments Pty Ltd trading as Artistic Flooring
Unit 17/160 Lytton Road
BULIMBA QLD 4171
AUSTRALIA

A full description of the test specimen and the complete test results are detailed in the Division's sponsored investigation report numbered FNR 12575.

SAMPLE IDENTIFICATION: 18oz Nylon Cushion Back Carpet Tile (R&D - No.3)

DESCRIPTION OF SAMPLE: The sponsor described the tested specimen as a nylon carpet tile with a cushion backing adhered onto particle board underlay. The carpet was comprised of the following layers:

Layer 1:	4-mm (nominal) thick nylon loop pile;
Layer 2:	0.2-mm (measured) thick primary backing comprised of polyester mesh;
Layer 3:	2-mm (measured) thick secondary backing comprised of ethylene vinyl acetate;
Layer 4:	>0.1-mm (measured) thick polyvinyl chloride (PVC) base adhesive;
Layer 5:	4-mm (nominal) thick polyester cushion backing;
Layer 7:	19-mm thick yellow tongue particle board.

The nylon loop pile was tethered onto the polyester primary backing and adhered by an EVA material the application rate was not provided. The EVA and cushion layers were adhered together using a PVC based adhesive with the application rate not provided. The carpet tiles were glued to the particleboard using an acrylic based adhesive at an application rate of 143-g/m².

Nominal total thickness:	29.3 mm (measured)
Nominal mass of woven carpet:	0.6 kg/m2
Nominal density of cushion backing:	0.8 kg/m3
Colour:	blue, grey olive mix (carpet) / dark grey (backing) / grey (cushion)

Note: The test results were based on the samples cut in the longitudinal direction.

TEST PROCEDURE: Samples were tested in accordance AS ISO 9239; Australian Standard, Reaction to fire tests for floorings, Part 1: Determination of the burning behaviour using a radiant heat ignition source, 2003. Three (3) samples were tested in accordance with AS 9239.1-2003.

SAMPLE CLASSIFICATION:

Mean distance of flame travel:	495 mm
Average Critical Radiant Flux:	3.8 kW/m²
Average integrated smoke value:	249 % x min

These test results relate to the behaviour of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.

Testing Officer: Stephen Smith Date of Test: 27 March 2020

Issued on the 15th day of May 2020 without alterations or additions.

Brett Roddy
Group Leader, Fire Testing and Assessments

NATA Accredited Laboratory
Number: 165
Corporate Site No 3625
Accredited for compliance with ISO/IEC 17025 - Testing.

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