Certificate of Test

Quote No.: NR8818 **No. FNR13143C**

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:

Amtico International Pty Limited
Kingfield Road
COVENTRY CV6 5AA
UNITED KINGDOM

A full description of the test specimen and the complete test results are detailed in the Division's sponsored investigation report numbered FNR 13143.

SAMPLE IDENTIFICATION: Amtico First

DESCRIPTION OF SAMPLE: The sponsor described the specimen as a polyvinyl chloride (PVC) floor tile attached onto a calcium silicate board underlay. The specimen was comprised of the following layers:

Layer 1: 0.025-mm thick polyurethane (PU) coating;
Layer 2: 0.30-mm thick wear layer comprised of plasticised PVC;
Layer 3: 0.07-mm thick print film comprised of plasticised PVC;
Layer 4: 1.63-mm thick backing comprised of limestone filled plasticised PVC;
Layer 5: 12-mm thick calcium silicate board.

The PU coating, wear layer, print film and backing was adhered together using a heat lamination process. The PVC tile was adhered onto the calcium silicate board using a hard set water based dispersion acrylic glue at an application of 280-g/m².

Nominal total thickness:	14.025 mm
Nominal density of calcium silicate board:	0.87 kg/m³
Nominal total density:	1158.98 kg/m³ (measured)
Colour:	beige (timber pattern) / grey (backing)

CSIRO was not involved in the design of the specimen configuration, or the selection of materials used to form the test specimen. The test result only relates to the specimen tested and described in this report.

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:	100 mm
Average Critical Radiant Flux:	≥ 11 kW/m²
Average integrated smoke value:	51 % 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: Clive Broadhead Date of Test: 28 November 2023

Issued on the 25th of January 2024 without alterations or additions.

Stephen Smith
Team Leader, Reaction to Fire & Façade Fire Laboratory

End of Report

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

CSIRO INFRASTRUCTURE TECHNOLOGIES

14 Julius Avenue, Riverside Corporate Park, North Ryde NSW 2113 AUSTRALIA
Telephone: 61 2 9490 5444 Facsimile: 61 2 9490 5555 www.csiro.au