Solution Dyed Nylon – PVC Backed Carpet Tiles

BPIR Declaration

Version 4.0 November 2026

Designated Building Product: Class 1

Declaration

Robert Malcolm Limited has provided this declaration to satisfy the provisions of Schedule 1 (d) of the Building (Building Product Information Requirements) Regulations 2022. See Regulations

Company Details

Name:	Robert Malcolm Limited
Role:	Supplier
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Email:	office@robertmalcolm.co.nz
Phone:	03 366 9839
Manufacturer:	Wuxi Fuxing Carpet Co. Ltd www.fuxing.com

Description of the Building Product

Robert Malcolm carpet tiles (refer product summary below) are commercial grade, with multi-level loop pile construction comprising of solution dyed nylon face yarn, polypropylene primary backing, latex layer and secondary PVC (*polyvinyl chloride*) with fiberglass backing. Carpet tiles are generally installed by fixing the carpet tile to the substrate with adhesive, these products are suitable for installation on stairs when used in conjunction with a compatible stair nosing.

Robert Malcolm carpet tiles are available in a range of formats that vary in design and size – please refer to the product summary below.

Robert Malcolm Solution Dyed Nylon – PVC Backed Carpet Tile Summary

Name	Dimensions	Pack Size	Wear Warranty Commercial Use
Kevlar	Tile - 50 x 50cm	20 Tiles / 5m2 per box	15 years
Kevlar Acoustic	Tile – 50 x 50cm	20 Tiles / 5m2 per box	15 years
Havana Acoustic	Tile – 50 x 50cm	20 Tiles / 5m2 per box	15 years

Sustainability

Wuxi Fuxing Carpet Co. Ltd, the manufacturer, considers the sustainability of their products and business practices by actively engaging in the following:

- Green Label Plus
- ISO 14001 Environmental Certification
- ISO 45001 Health and Safety Certification

Building Code Obligations

B2 Durability	
B2.3.1 (c) Building elements must, with only normal maintenance continue to satisfy the performance requirements of this code for the lesser of the specified intended life of the building, if stated or: (c) 5 years if (i) the building elements (including services, linings, renewable protective coatings and fixtures) are easy to access and replace, and (ii) failure of those building elements to comply with the building code would be easily detected during normal use of the building	
Evidence	**Rationale**
Traffic Classification	Commercial Heavy Duty Robert Malcolm Limited provide the following warranty on solution dyed nylon, PVC backed products: -15 year wear resistance warranty -15 year dimensional stability warranty -15 year delamination warranty -15 year castor chair warranty -15 year stain warranty -Lifetime static warranty Further test results within the product specification sheet demonstrating evidence of durability during normal use of the product.
Wear Tests QB/T 2755-2005	Pass
ASTM D-5252 Hexapod Drum Tester	Number of hexapod cycles 12,000 Overall appearance change – 3 moderate change Scale 1 – 5 (1 = severe change, to 5 = negligible or no change) Independent Textile Testing Service Inc. is an independent testing facility engaged by Wuxi Fuxing Carpet Co. to perform hexapod (wear) tests.
B2/VM1 1.1.1 In-service history	Wuxi Fuxing Carpet Co. products have been manufactured since 1992 in China, they hold ISO 9001 quality certification. This satisfies the performance requirements of the Building Code for a period of 5 years as the floor covering is easy to access and replace, and failure of the product would be easily detected during normal use of the product.

C3 Fire affecting areas beyond the fire source		
C3.4(b) Floor surface materials in the following areas of buildings must meet the performance criteria specified below:		
Area of Building	**Minimum critical radiant flux when tested to ISO 9239-1:2010**	
	Buildings not protected with an automatic fire sprinkler system	Buildings protected with an automatic fire sprinkler system
Sleeping areas and exitways in buildings where care or detention is provided	4.5 kW/m2	2.2 kW/m2
Exitways in all other buildings	2.2 kW/m2	2.2 kW/m2
Firecells accommodating more than 50 persons	2.2 kW/m2	1.2 kW/m2
All other occupied spaces except household units	1.2 kW/m2	1.2 kW/m2

Evidence	**Rationale**
AWTA Product Testing AS ISO 9239-1 : 2003 and AS ISO 9239-1 : 2010 Part 1	AWTA is an independent testing facility engaged by Robert Malcolm Ltd to perform inflammability tests. Test results on these products are available, please refer to the table below and supporting documents. Test results confirm that the performance requirements outlined in the table above are satisfied.

Range	**Date of Test**	**Test Number**	**Mean Critical Radiant Flux**
Kevlar	4/8/2023	23-002447	5.7 kW/m2
Kevlar Acoustic	26/11/2024	24-004153	4.7 kW/m2
Havana Acoustic	4/9/2026	26-003153	4.8 kW/m2

D1 Access Routes

D1.3.3(d) Access routes shall:
-Have adequate slip resistant walking surfaces under all conditions of normal use
D2.1.2(b) For level access routes (including level accessible routes) expected to become wet with water in normal use, walking surfaces shall either:

a) Have an SRV classification of not less than 39 from the wet pendulum test method of AS 4586 Appendix A using the Slider 96 rubber, or
b) Use the materials listed in Table 2 as 'acceptable wet slip'

Table 2: Slip Resistance for Walking Surfaces

Walking Surface	**Level Surface**		**Sloping Surface or Stairs**	
	Acceptable dry slip resistance	**Acceptable wet slip resistance**	**Acceptable dry slip resistance**	**Acceptable wet slip resistance**
Carpet Tufted or Loop Pile	Yes	Yes	Yes	Yes

Evidence	**Rationale**
Table 2 (above)	Table 2 above confirms that Robert Malcolm products listed in the product summary meet the performance requirement of the Building Code D1.3.3(b) as an Acceptable Solution under dry or wet conditions on both level, and sloping surfaces or stairs.

F2 Hazardous building materials	
F2.1 The objective of this provision is to safeguard people from injury and illness caused by exposure to hazardous building materials F2.3.1 The quantities of gas, liquid, radiation or solid particles emitted by materials used in the construction of buildings shall not give rise to harmful concentrations at the surface of the material where the material is exposed, or in the atmosphere of any space.	
Evidence	**Rationale**
CRI Green Label GLP0399	Total VOC's 0.5mg/m3 or less
G6 Airborne and Impact Sound	
G6.1 The objective of this provision is to safeguard people from illness or loss of amenity as a result of undue noise being transmitted between abutting occupancies. G6.3.1 The Sound Transmission Class of walls, floors and ceilings, shall be no less than 55. G6.3.2 The Impact Insulation Class of floors shall be no less than 55.	
Evidence	**Rationale**
Canterbury Acoustic Testing Services AS ISO 354:2006	Canterbury Acoustic Testing Services is an independent testing facility engaged by Robert Malcolm Ltd to measure sound absorption in a reverberation room. Test results on these products are available, please refer to the table below and supporting documents. Test results provide evidence of flooring contributing to a total flooring system that prevents the transmission of undue noise between occupancies.

Range	Date of Test	Test Number	Noise Reduction Coefficient
Kevlar Acoustic	11/12/2025	2025-324	0.25
Havana Acoustic	12/11/2026	2026-354	0.30

Scope of Use and Limitations

Building Work

Scope	Limitation
In conjunction with a substrate and primary structure that complies with the NZ Building Code, or where the primary structure is the equivalent stiffness to the framing provisions of NZS 3604: 2011	-Installation must be in accordance with Flooring Standards AS/NZS 2455.1:1:2007 Textile floorcoverings – Installation practice Part 1: General & Part 2: Carpet tiles -Installation must be in accordance with Floor NZ Best Practice Guidelines for the New Zealand Flooring Industry – Carpet Floor Coverings Planning and Installation
For all building classified uses	-For commercial and industrial uses, refer to Robert Malcolm Limited for warranty details and exclusions -Robert Malcolm carpet tiles are only suitable for use in interior situations that are dry under normal use
Stain resistance warranty	-Excludes non-food and non-beverage stains caused by substances such as cosmetics, bleaches, inks and waxes. Refer to Robert Malcolm Limited for further details
Suitable for installation on stairs	-A compatible stair nosing must be used for installation of Robert Malcolm carpet tiles on stairs

Conditions of Use

Robert Malcolm carpet tiles must be installed and maintained in accordance with all of the Robert Malcolm requirements.

Warning or Ban
This building product line is not subject to a warning or ban under section 26 of the Building Act 2004.

Additional Information
For all design, installation and maintenance-related information, and for information supporting Robert Malcolm claims, refer to www.robertmalcolm.co.nz

Product Links
Kevlar https://www.robertmalcolm.co.nz/contact-us/bpi-library/#kevlar
Kevlar Acoustic https://www.robertmalcolm.co.nz/contact-us/bpi-library/#kevlar-acoustic
Havana Acoustic https://www.robertmalcolm.co.nz/products/carpet-tiles/havana-acoustic