



Polypropylene – PVC Backed Carpet Tiles

BPIR Declaration

Version 1.1 October 2023

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
NZBN: 9429031999632
Address: 10 Establishment Drive, Hornby South, Christchurch 8042
Website: www.robertmalcolm.co.nz
Email: office@robertmalcolm.co.nz
Phone: 03 366 9839
Manufacturer: Voxflor Industrial Park Co. Limited www.voxflor.com

Description of the Building Product

Voxflor carpet tiles (refer product summary below) are commercial grade, with multi-level loop pile construction comprising of solution dyed polypropylene face yarn, polypropylene primary backing, latex layer and secondary PVC (polyvinyl chloride) and fibreglass 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.

Voxflor 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 Polypropylene – PVC Backed Carpet Tile Summary

Name	Dimensions	Pack Size	Wear Warranty Commercial Use
Millbrook	Tile - 50 x 50cm	20 Tiles / 5m2 per box	5 years

Sustainability

Voxflor, the manufacturer, considers the sustainability of their products and business practices by actively engaging in the following:

- Declare Label
- Green Label Plus
- LEED Certification
- Living Building Challenge Certification

Building Code Obligations

B2 Durability									
<p>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</p>									
Evidence	Rationale								
<p>Traffic Classification</p> <p>Wear Tests Rubbing / Crocking AATCC 165</p> <p>Stability Delamination ASTM D3936</p> <p>Dimensional Stability AACHEN</p> <p>B2/VM1 1.1.1 In-service history</p>	<p>Commercial Medium Duty Robert Malcolm Limited provide the following warranty on Voxflor solution dyed polypropylene, PVC backed products: -5 year wear resistance warranty -5 year dimensional stability warranty -5 year backing integrity warranty -5 year edge ravel warranty -5 year limited static protection</p> <p>Further test results within the product specification sheet demonstrating evidence of durability during normal use of the product.</p> <table border="0"> <tr> <td>Standard</td> <td>Test Result</td> </tr> <tr> <td>≥ 4 - 5</td> <td>4 - 5</td> </tr> <tr> <td>≥ 3.0 lbc/in</td> <td>No separation</td> </tr> <tr> <td>≤ 0.2</td> <td>≤ 0.2</td> </tr> </table> <p>Robert Malcolm Ltd have been supplying Voxflor solution dyed polypropylene ranges to the New Zealand market since 2013. Voxflor products have been manufactured since 1997 in China.</p> <p>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.</p>	Standard	Test Result	≥ 4 - 5	4 - 5	≥ 3.0 lbc/in	No separation	≤ 0.2	≤ 0.2
Standard	Test Result								
≥ 4 - 5	4 - 5								
≥ 3.0 lbc/in	No separation								
≤ 0.2	≤ 0.2								

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 Voxflor 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 GLP100231	Total VOC's 0.5mg/m3 or less			

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
Suitable for installation on stairs	-A compatible stair nosing must be used for installation of Robert Malcolm carpet tiles on stairs
Installation method (layout)	-Millbrook carpet tiles must be installed by the quarter turn method only, this relates to pattern created by the layout of the tiles

Conditions of Use

Voxflor 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

Millbrook

<https://www.robertmalcolm.co.nz/contact-us/bpi-library/#millbrook>