



## Solution Dyed Polyester – Garage Carpet

### BPIR Declaration

Version 1.1 June 2024

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](http://www.robertmalcolm.co.nz)  
Email: [office@robertmalcolm.co.nz](mailto:office@robertmalcolm.co.nz)  
Phone: 03 366 9839  
Manufacturer: Yian (Xiamen) Non-Wovens Co. Ltd

### Description of the Building Product

Robert Malcolm garage carpet is a non woven needle punch product constructed from solution dyed polyester supplied in roll form, this product is available in 3m and 4m width rolls. Please see the product specifications for further details.

### 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
Warranty Period	Residential Warranty Robert Malcolm Limited provide the following warranty on residential solution dyed polyester, garage carpet: -5 year residential wear warranty
B2/VM1 1.1.1 In-service history	Robert Malcolm Ltd have been supplying solution dyed polyester garage carpet to the New Zealand market since 2016.  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.

<b>C3 Fire affecting areas beyond the fire source</b>				
C3.4(b) Floor surface materials in the following areas of buildings must meet the performance criteria specified below:				
<b>Area of Building</b>	<b>Minimum critical radiant flux when tested to ISO 9239-1:2010</b>			
	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/m <sup>2</sup>	2.2 kW/m <sup>2</sup>		
Exitways in all other buildings	2.2 kW/m <sup>2</sup>	2.2 kW/m <sup>2</sup>		
Firecells accommodating more than 50 persons	2.2 kW/m <sup>2</sup>	1.2 kW/m <sup>2</sup>		
All other occupied spaces except household units	1.2 kW/m <sup>2</sup>	1.2 kW/m <sup>2</sup>		
<b>Evidence</b>	<b>Rationale</b>			
AWTA Product Testing AS/ISO 9239-1 : 2003	<p>AWTA is an independent testing facility engaged by Robert Malcolm Ltd to perform inflammability tests.</p> <p>Test results on these products are available, please refer to the table below and supporting documents.</p> <p>Test results confirm that the performance requirements outlined in the table above are satisfied.</p>			
<b>Range</b>	<b>Date of Test</b>	<b>Test Number</b>	<b>Mean Critical Radiant Flux</b>	
Garage Carpet	6/12/2019	19-005185	5.8 kW/m <sup>2</sup>	
<b>D1 Access Routes</b>				
<p>D1.3.3(d) Access routes shall:</p> <ul style="list-style-type: none"> <li>-Have adequate slip resistant walking surfaces under all conditions of normal use</li> </ul> <p>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:</p> <ol style="list-style-type: none"> <li>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</li> <li>b) Use the materials listed in Table 2 as 'acceptable wet slip'</li> </ol>				
<b>Table 2: Slip Resistance for Walking Surfaces</b>				
<b>Walking Surface</b>	<b>Level Surface</b>		<b>Sloping Surface or Stairs</b>	
	<b>Acceptable dry slip resistance</b>	<b>Acceptable wet slip resistance</b>	<b>Acceptable dry slip resistance</b>	<b>Acceptable wet slip resistance</b>
<b>Carpet</b> Tufted or Loop Pile	Yes	Yes	Yes	Yes
<b>Evidence</b>	<b>Rationale</b>			
Table 2 (above)	Table 2 above confirms that Robert Malcolm solution dyed polyester garage carpet meets 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.			

## 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 -Installation must be in accordance with Floor NZ Best Practice Guidelines for the New Zealand Flooring Industry – Carpet Floor Coverings Planning and Installation -Robert Malcolm garage carpet is not impervious therefore not suitable for installation within 1.5m of a sanitary fixture or appliance
For all building classified uses	-For residential use, refer to <a href="http://www.robertmalcolm.co.nz">www.robertmalcolm.co.nz</a> for warranty details and exclusions -Robert Malcolm garage carpets are only suitable for use in interior situations only

### Conditions of Use

Robert Malcolm solution dyed polyester garage carpet must be installed and maintained in accordance with all 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](http://www.robertmalcolm.co.nz)

### Product Links

Garage Carpet

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