



## Robert Malcolm Sheet Vinyl

### **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](http://www.robertmalcolm.co.nz)  
Email: [office@robertmalcolm.co.nz](mailto:office@robertmalcolm.co.nz)  
Phone: 03 366 9839  
Manufacturer: B.I.G. Floorcoverings NV [www.beauflor.com](http://www.beauflor.com)

### **Description of the Building Product**

Robert Malcolm sheet vinyl is designed for use as a floorcovering and is constructed of multiple layers including a polyurethane coating and wear layer, print layer and PVC (*polyvinyl chloride*) back layer.

Robert Malcolm sheet vinyl is available in a range of formats that vary in overall thickness, thickness of the wear layer and warranty period – please refer to the product summary below. Robert Malcolm sheet vinyl products are suitable for a range of residential and commercial applications including within 1.5m of a sanitary fixture or appliance when fitted in accordance with the Robert Malcolm Installation Recommendations.

### **Robert Malcolm Sheet Vinyl Product Summary**

Name	Roll Size	Thickness	Wearlayer	Wear Warranty Res / Com
Ambient	2m wide	2.50mm	0.70mm	5 yrs commercial/ 15 yrs residential
Atlantic	2m wide	1.90mm	0.15mm	5 yrs residential
Urban	2m wide	1.90mm	0.15mm	5 yrs residential
Xtreme	2m wide	2.00mm	0.70mm	10 yrs commercial/ 20 yrs residential
Xtreme Lux	2m wide	2.00mm	0.70mm	10 yrs commercial/ 20 yrs residential

### **Sustainability**

B.I.G. Floorcoverings NV, the manufacturer, considers the sustainability of their products and business practices by actively engaging in the following:

- FloorScore Certification
- 100% Ortho-phthalates free

## Building Code Obligations

<b>B2 Durability</b>	
<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>	
<b>Evidence</b>	<b>Rationale</b>
<p>Level of Use Classification            EN ISO 10874</p>	<p>Level of use classification and wear warranty period contained within the product specification sheet.</p> <ul style="list-style-type: none"> <li>• Atlantic, Urban                Class 21                Wear Warranty: 5 years residential</li> <li>• Ambient                Class 23- 33 - 42                Wear Warranty: 5 years commercial, 15 years residential</li> <li>• Xtreme, Xtreme Lux                Class 23- 34- 43                Wear Warranty: 10 years commercial, 20 years residential</li> </ul>
<p>B2/VM1 1.1.1 In-service history</p>	<p>Robert Malcolm Ltd have been supplying sheet vinyl ranges to the New Zealand market for over 60 years, this includes distributing B.I.G. Floorcoverings (Juteks) products since 1995. B.I.G. Floorcovering products have been manufactured since 1959 in Belgium.</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>
<p>Residual Indentation            EN ISO 24343-1 and Dimensional            Stability EN ISO 23999</p>	<p>Further test results within the product specification sheet demonstrating evidence of durability during normal use of the product.</p>

**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/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>

Evidence	Rationale
Clause 3.4 does not apply to <i>detached dwellings</i> , within <i>household units</i> , in <i>multi unit dwellings</i> , or <i>outbuildings</i> and <i>ancillary buildings</i>	<p>Atlantic and Urban ranges are designed exclusively for residential use, therefore Clause 3.4 is not applicable due to the Limit on Application imposed</p> <p>Ambient, Xtreme and Xtreme Lux ranges – Reaction to fire test EN 13501-1, test results Bfl-s1 test results for all products available within the product specifications</p>

**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
Vinyl and linoleum Smooth or with imprinted pattern	Yes	Test	Yes	No

Evidence	Rationale
Table 2 (above) and, DIN 51130 (Determination of Slip Resistance of Pedestrian Surfaces)	<p>Table 2 above confirms that Robert Malcolm Sheet Vinyl products listed in the product summary meet the performance requirement of the Building Code D1.3.3(b) as an Acceptable Solution under dry conditions on both level, and sloping surfaces or stairs.</p> <p>Further test results have been provided for each product to determine compliance under wet conditions – please refer to the product specification sheets for DIN 51130 test results (Slip Resistance Test)</p>

<b>E3 Internal Moisture</b>	
<p>E3.3.3 Floor surfaces of any space containing sanitary fixtures or sanitary appliances must be impervious and easily cleaned</p> <p>E3.3.5 Surfaces of building elements likely to be splashed or become contaminated in the course of the intended use of the building, must be impervious and easily cleaned</p> <p>E3.3.6 Surfaces of building elements likely to be splashed must be constructed in a way that prevents water splash from penetrating behind linings or into concealed spaces</p>	
<b>Evidence</b>	<b>Rationale</b>
<p>E3/AS1 para 3.1.1(a) recognises that the material PVC (vinyl) is impervious.</p>	<p>Robert Malcolm Sheet Vinyl products are constructed primarily of PVC (recognised as impervious). Combined with the simple maintenance prescribed in the Robert Malcolm Cleaning and Maintenance Guide (Residential &amp; Commercial Vinyl) the performance requirements of E3.3.3 and E3.3.5 'impervious and easily cleaned' have been met</p> <p>Installation must be in accordance with AS/NZS Flooring Standards 1884:2013 Resilient Sheet and Tile Installation Practise, and the Floor NZ Best Practice Guidelines for Resilient Floor Coverings Planning and Installation. This includes the requirement for a bead of flexible silicone to be installed to the perimeter of areas where vinyl has been installed without coving, within 1.50m of a sanitary fixture or sanitary appliance. As Robert Malcolm Sheet Vinyl products are impervious and sealed at the perimeter water splash will not penetrate behind linings or into concealed spaces satisfying the performance requirement of E3.3.6</p>
<b>F2 Hazardous building materials</b>	
<p>F2.1 The objective of this provision is to safeguard people from injury and illness caused by exposure to hazardous building materials</p> <p>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.</p>	
<b>Evidence</b>	<b>Rationale</b>
<p>French A+ VOC Label ISO 16000</p> <p>Formaldehyde Group EN 717-1</p>	<p>Products are tested and emission class is determined from 28 day VOC emission testing in a ventilated chamber according to ISO 1600</p> <p>Formaldehyde Group E1 (<math>\leq 0.12</math> mg/m<sup>3</sup> of air), results provided within the product specification sheet</p>

## Scope of Use and Limitations

### Building Work

<b>Scope</b>	<b>Limitation</b>
<p>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</p>	<p>-Installation must be in accordance with AS/NZS Flooring Standards 1884:2013 Resilient Sheet and Tile Installation Practise, and Floor NZ Best Practice Guidelines for the New Zealand Flooring Industry-Resilient Floor coverings Planning and Installation.</p> <p>-Particular attention should be paid to conducting the appropriate tests to ensure the substrate meets the appropriate RH level to meet the current NZ Flooring Standards.</p>
<p>For all building classified uses</p>	<p>-Products listed in the Robert Malcolm Sheet Vinyl Summary above are suitable for use exclusively in residential applications, with the exception of the Ambient, Xtreme and Xtreme Lux ranges that hold a commercial rating and warranty</p>

	<ul style="list-style-type: none"><li>-Robert Malcolm Sheet Vinyl products are only suitable for use in interior situations</li><li>- Robert Malcolm Sheet Vinyl products are not intended for use as a shower flooring</li><li>-Refer to the product warranty for conditions and exclusions</li></ul>
--	--

**Conditions of Use**

Robert Malcolm Sheet Vinyl products 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](http://www.robertmalcolm.co.nz)

**Product Links**

Ambient

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

Urban

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

Xtreme

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

Xtreme Lux

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