



## 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  
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Email: [office@robertmalcolm.co.nz](mailto:office@robertmalcolm.co.nz)  
Phone: 03 366 9839  
Manufacturer: IVC BV [www.ivcgroup.com](http://www.ivcgroup.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
Belgo	3m wide	2.60mm	0.35mm	15 yrs residential
Centra I	2m wide	2.30mm	0.60mm	5 yrs commercial
Centra II		2.00mm	0.70mm	
Nomad	3m wide	3.90mm	0.45mm	15 yrs residential
Picasso	3m wide	2.60mm	0.35mm	15 yrs residential
Pioneer	2m wide	2.50mm	0.70mm	15 yrs residential
Premier	3m wide	2.60mm	0.35mm	15 yrs residential
Presto	2m wide	2.80mm	0.20mm	5 yrs residential
Step	2m & 3m wide	2.40mm	0.25mm	10 yrs residential
Tundra	3m wide	2.60mm	0.35mm	15 yrs residential
Zenith	2m & 3m wide	1.70mm	0.20mm	5 yrs residential

### **Sustainability**

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

- FloorScore Certification
- REACH Certificate
- Creating a 'Recovinyl' Programme

- **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>• Presto, Zenith                Class 22                Wear Warranty: 5 years residential</li> <li>• Step                Class 23- 32                Wear Warranty: 10 years residential</li> <li>• Belgo, Nomad, Picasso, Premier, Tundra                Class 23 – 32                Wear Warranty: 15 years residential</li> <li>• Pioneer                Class 34 - 42                Wear Warranty: 5 years commercial</li> <li>• Centra I                Class 33- 34                Wear Warranty: 5 yrs commercial</li> <li>• Centra II                Class 23- 34- 43                Wear Warranty: 5 yrs commercial</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 IVC products since 1997. IVC products have been manufactured since 1997 in Belgium, Luxembourg and Poland.</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>

<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>			
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>All ranges (except Centra I &amp; II and Pioneer) in the Robert Malcolm Sheet Vinyl Summary above are designed exclusively for residential use, therefore Clause 3.4 is not applicable due to the Limit on Application imposed</p> <p>All ranges – Reaction to fire test EN 13501-1, test results Cfl-s1 or Bfl-s1 test results for all products available within the product specifications</p>			
<b>D1 Access Routes</b>				
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’				
<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>Vinyl and linoleum</b> Smooth or with imprinted pattern	Yes	Test	Yes	No
<b>Evidence</b>	<b>Rationale</b>			
Table 2 (above) and, DIN 51130 test results (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 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. 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>REACH Compliant</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>REACH is a European Regulation (EC) No 1907/2006 that aims to provide a high level of protection of human health and the environment from the use of chemicals. REACH restricts the use of 224 chemical substances and compliance is mandatory for companies that manufacture or sell parts or products within the EU that contain chemical substances.</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</p>

	Centra I & II and Pioneer ranges that hold a commercial rating and warranty -Robert Malcolm Sheet Vinyl products are only suitable for use in interior situations - Robert Malcolm Sheet Vinyl products are not intended for use as a shower flooring -Refer to the product warranty for conditions and exclusions
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**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**

Belgo

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

Centra

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

Nomad

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

Picasso

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

Pioneer

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

Premier

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

Presto

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

Step

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

Tundra

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

Zenith

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