



## Moduleo Luxury Vinyl Planking

### **BPIR Declaration**

Version 1.1 September 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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 Manufacturer: IVC BV [www.ivcgroup.com](http://www.ivcgroup.com)

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

Moduleo is a range of luxury vinyl planking constructed of multiple layers including a polyurethane coating and wear layer, print layer, glass fibre x2, middle layer (PVC) and back layer (PVC).

Moduleo luxury vinyl planking and tiles are 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. Moduleo 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.

### **Moduleo Product Summary**

Name	Dimensions	Thickness	Wearlayer	Wear Warranty Res / Com
Moduleo Select	Plank - 132 x 19.6cm Tile - 65.9 x 32.9cm	2.35mm	0.40mm	20yrs res / 7yrs com
Moduleo Impress	Plank - 132 x 19.6cm XL Plank - 149.8 x 21.4cm Herringbone - 63.2 x 15.8cm Tile - 98.6 x 49.3cm	2.50mm	0.55mm	25yrs res / 10yrs com
Moduleo Transform	Plank - 132 x 19.6cm Herringbone - 63.2 x 15.8cm Tile - 65.9 x 32.9cm Square Tile - 49.3 x 49.3cm	2.50mm	0.55mm	25yrs res / 10yrs com
Moduleo Moods	Various Modular Sizes	2.50mm	0.55mm	25yrs res / 10yrs com
Supremo	Plank - 132 x 19.6cm Tile - 65.9 x 32.9cm	2.00mm	0.30mm	12yrs res / 5yrs com
Divino	Plank - 132 x 19.6cm	2.50mm	0.55mm	20yrs res / 10yrs com

## Sustainability

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

- REACH Certificate
- GUT Label
- FloorScore Certification
- Green Tag Certification

## 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>• Moduleo Select                Class 23 – 32                Wear Warranty: 20 years residential/ 7 years commercial</li> <li>• Moduleo Impress &amp; Transform:                Class 23 – 33                Wear Warranty: 25 years residential/ 10 years commercial</li> <li>• Moduleo Moods:                Class 23 – 33                Wear Warranty: 25 years residential/ 10 years commercial</li> <li>• Divino                Class 23 – 33                Wear Warranty: 20 years residential/ 10 years commercial</li> <li>• Supremo                Class 23 – 31                Wear Warranty: 12 years residential/ 5 years commercial</li> </ul>
<p>B2/VM1 1.1.1 In-service history</p>	<p>Robert Malcolm Ltd have been supplying luxury vinyl plank ranges to the New Zealand market for over 25 years, this includes distributing Moduleo products since 2010. Moduleo products have been manufactured since 2014 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>Scratch Resistance EN 16094 and Residual Indentation            EN ISO 24343-1</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
C.R.E.T NF EN ISO 9239-1 -2.35mm Range (17/1/2023) Test #RL 2022/903-2 Mean critical flux 8.5 kW/m <sup>2</sup> -2.50mm Range (16/1/2023) Test #RL 2022/907-1 Mean critical flux 8.1 kW/m <sup>2</sup> AWTA AS ISO 9239.1-2003 -2.00mm Range (18/10/2016) Test 16-005117 Mean critical flux 8.3 kW/m <sup>2</sup>	C.R.E.T is an independent testing facility engaged by Unilin IVC to perform inflammability tests. Test results on these products are available.  AWTA is an independent testing facility engaged by Unilin IVC to perform inflammability tests. Test results on these products are available.  Test results confirm that the performance requirements outlined in the table above are satisfied.

**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, EN16165 annex B test results (Determination of Slip Resistance of Pedestrian Surfaces)	Table 2 above confirms that Moduleo 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. Further test results have been provided for each product to determine compliance under wet conditions – please refer to the product specification sheet for EN16165 annex B test results (Determination of Slip Resistance of Pedestrian Surfaces)

<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>NZWTA ISO 4760:2022 (E) Topical Moisture Resistance – Assembled Joint (3/10/22 &amp; 6/3/23) Test No. 1435497.1R, 1452548.9, 1435502.8R, 1452547.1</p> <p>No evidence of water penetration through the joins.</p>	<p>Moduleo products are constructed primarily of PVC (recognised as impervious), and additional testing below acts as further evidence of this. Combined with the simple maintenance prescribed in the Robert Malcolm Cleaning and Maintenance Guide (Moduleo) the performance requirements of E3.3.3 and E3.3.5 ‘impervious and easily cleaned’ have been met</p> <p>NZWTA is an independent testing facility engaged by Robert Malcolm Limited to perform water penetration testing.</p> <p>Test results confirm that Moduleo products listed in the product summary meet the performance requirement ‘impervious’ when installed with the specified adhesive system and in accordance with the Robert Malcolm Installation Recommendations (Moduleo). This includes the requirement for a bead of flexible silicone to be installed to the perimeter of areas where vinyl planks or vinyl tiles have been installed within 1.50m of a sanitary fixture or sanitary appliance. As Moduleo flooring is 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>Formaldehyde Group EN 717-1</p>	<p>Formaldehyde Group E1, results provided within the product specification sheet.</p>

**\*Test results contained within the product specification sheets are provided by Bureau Veritas Certification (ISO 9001 Certified), unless specified otherwise.**

### 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.</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>-A bead of flexible silicone is required to be installed to the perimeter of areas where vinyl planks or tiles have been installed within 1.50m of a sanitary fixture or sanitary appliance</p>

Installation temperature and acclimatising product	-Moduleo vinyl planks and tiles are recommended to be installed with a room temperature of 15 – 24 °C and a floor temperature above 12°C. The product must be acclimatised in the room for at least 24 hours, or until the product has achieved ambient room temperature. -Installation must be in accordance with the Moduleo Installation Recommendations
For all building classified uses	-For commercial and industrial uses, refer to <a href="#">Robert Malcolm Limited</a> for warranty details and exclusions -Moduleo products are only suitable for use in interior situations -Moduleo products are not intended for use as a shower flooring

#### Conditions of Use

Moduleo vinyl planks 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

Moduleo Select Plank

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

Moduleo Select Tile

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

Moduleo Impress Plank

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

Moduleo Impress XL Plank

<https://www.robertmalcolm.co.nz/contact-us/bpi-library/#moduleo-impress-xl-plank>

Moduleo Impress Herringbone

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

Moduleo Impress Tile

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

Moduleo Transform Plank

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

Moduleo Transform Herringbone

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

Moduleo Transform Tile

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

Moduleo Transform Square Tile

<https://www.robertmalcolm.co.nz/contact-us/bpi-library/#moduleo-transform-square-tile>

Supremo Plank

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

Supremo Tile

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

Divino

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