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<b>Document Type</b>
Green Building Rating Compatibility Analysis

<b>Document Code</b>
ES-GSNZ-15-05a

Validity		
	Office 2009 + V3 / Interiors 2009 + V3 / Education 2009 + V3 + V3.1 / Industrial 2009 + V3	✓
	Homestar V2 + V3 + V4	✓
	V 1.1	Not yet assessed
	V3.0	Not yet assessed
	NABERSNZ	N/A
	Passivhaus	N/A
	Net Zero NZ	N/A

<b>Client</b>
Inzide Commercial (New Zealand)

<b>Product Name</b>
Forbo Marmoleum

<b>Product Description</b>	
<p>Forbo provides a natural linoleum floor covering that is made through the combination of the following materials: linseed oil, pine rosin (a form of resin tapped from the pine tree), wood flour, limestone and natural mineral pigments. Over 150 colours are available in the Marmoleum collection for multiple purposes.</p>	

Manner in which the product may contribute towards points	Legend of Symbols in EnviroSpec
Products must meet specific criteria (e.g. Paint VOC emissions, carpets, etc)	✓
Products may help achieve points by their very nature, if they are specified and installed (e.g. bicycle racks)	•
Products may help achieve an outcome but they must be used in a specific manner (e.g. lighting control and zoning systems) OR This product can contribute towards the outcome but many other products or factor influence that same outcome (E.g. Potable Water Calculator)	○

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## - Green Building Summary Sheet -

Tool	Credit category	Points available	Requirements	Contribution symbol	Contribution Potential	Details of compliance
Green Star NZ Office 2009 + Education (2009 and V3) + Industrial 2009	MAT - 9	3	This credit rewards the use of flooring that has a lower environmental impact as demonstrated by a third party certification recognized by the NZGBC.	✓	3 points	This product has GreenTag level A certification (including the low VOC requirements)
Green Star NZ Office 2009 + Education (2009 and V3) + Industrial 2009 + Interiors 2009	MAT-4	3	This credit rewards the reduction of PVC use in buildings.	○	Calculator contribution	This product is GreenTag level A certified and is PVC free which assists the overall reduction calculation as it does not add to PVC cost in the "actual PVC cost" column of the reference case.
Green Star NZ Interiors 2009	MAT - C	5	In this credit, new flooring products can be rewarded for each of the following criteria; Approved Ecolabel; Minimum 15 year warranty; Product Stewardship Programme.	✓	4.2 points	The nominated product is GreenTag Level A certified, is available with a 15 year warranty.
Green Star NZ Office V3.0 + Education V3.1 + Industrial V3.0 + Interiors V3	MAT-3	5	<p>This credit rewards up to 5 points in total.</p> <p><b>CRITERIA A</b></p> <ul style="list-style-type: none"> <li>Up to 3 points are allocated for the use of Environmentally preferable products (including Applied coatings, Insulation, Flooring, Internal walls and partitions). Each product type is worth up to 1 point.</li> </ul> <p><u>Benchmarks are:</u></p> <ul style="list-style-type: none"> <li>- 0.5 points are awarded if &gt; 50% of a selected product type complies</li> <li>- 1 point is awarded if &gt; 90% of a selected product type complies.</li> </ul> <p><b>CRITERIA B</b></p> <p>Up to 2 further points are allocated if "common uses of PVC" (including flooring and resilient wall coverings, pipes, wires and blinds) meet the GBCA Best Practice Guidelines or are PVC-free. 1 point is awarded if &gt; 60% by cost complies and 2 points are awarded if &gt; 90% by cost complies</p>	✓	<p>Criteria A 1 point</p> <p>Criteria B 2 points</p>	<p>CRITERIA A. This flooring product has GreenTag Level A certification, contributing to 1 point (unweighted in the calculator.)</p> <p><i>Note: the remaining points in criteria A are achieved if the other product types also comply.</i></p> <p>CRITERIA B This flooring product is PVC free, which may help contribute up to 2 points provided the user also specifies compliant pipes, wires, blinds and resilient wall coverings, ensuring overall &gt; 90% of products by cost comply.</p>
Green Star NZ Office V3.0 + Education V3.1 + Industrial V3.0	MAT-4	5	<p>This credit rewards up to 5 points in total.</p> <ul style="list-style-type: none"> <li>4 points are allocated for the use of low VOC and low formaldehyde emitting products (including Applied coatings, Adhesives &amp; Sealants, Flooring, Ceilings, Internal walls &amp; partitions) – Each product type is worth up to 1 point.</li> </ul> <p><u>Benchmarks are:</u></p> <ul style="list-style-type: none"> <li>- 0.5 points are awarded if &gt; 50% of a selected product type complies</li> <li>- 1 point is awarded if &gt; 90% of a selected product type complies.</li> </ul> <ul style="list-style-type: none"> <li>1 point is allocated for the use of low formaldehyde emitting engineered wood products (exposed or concealed applications) 90% complies.</li> </ul>	✓	1 point	This product is classified as a low emitting VOC product in accordance with NZGBC guidelines and therefore satisfies the credit criteria for low VOC emissions.

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Green Star NZ Interiors V3	MAT-4	6	<p>This credit rewards up to 6 points in total.</p> <ul style="list-style-type: none"> <li>• 5 points are allocated for the use of low VOC and low formaldehyde emitting products (including Applied coatings, Adhesives &amp; Sealants, Flooring, Ceilings, Internal walls &amp; partitions + Fitout items) – Each product type is worth up to 1 point.</li> </ul> <p><u>Benchmarks are:</u></p> <ul style="list-style-type: none"> <li>- 0.5 points are awarded if &gt; 50% of a selected product type complies</li> <li>- 1 point is awarded if &gt; 90% of a selected product type complies.</li> </ul> <ul style="list-style-type: none"> <li>• 1 point is allocated for the use of low formaldehyde emitting engineered wood products (exposed or concealed applications) 90% complies.</li> </ul>	✓	1 point	This product is classified as a low emitting VOC product in accordance with NZGBC guidelines and therefore satisfies the credit criteria for low VOC emissions.
	Homestar (V2 and V3)	MAT-1	9 (all products combined)	This credit rewards the selection of eco-preferred and responsibly sourced materials. Floor coverings are one of thirteen possible construction types eligible for up to 1 merit each.	✓	1 merit (out of 1 merit available for floor coverings)
	MAT-2	3 (all products combined)	This credit rewards the use of low VOC and low formaldehyde interior products and finishes. This product is eligible for 0.75 points out of 3.	✓	0.75 points (out of 0.75 points available for flooring)	This product has low VOC emissions, contributing to 0.75 points.
Homestar V4	MAT-1	10	This credit rewards the use of eco-preferred and responsibly sourced materials. Flooring products are one of thirteen possible material categories eligible for 2 points each.	✓	2 points (out of 2 points available for floor coverings)	This product is Greentag Level A certified, which contributes to 2 points (unweighted in the calculator.)
	MAT-2	4	This credit rewards the use of low VOC and low formaldehyde interior products and finishes. Floor coverings are one of four material categories eligible for 1 point each.	✓	1 point (out of 1 point available for flooring)	This product has low VOC emissions, contributing to 1 point.
Living Building Challenge		Pass/Fail	This product has not been assessed against this criteria.	-	-	N/A
SBN Circular Economy Office Model V1.1		Pass/Fail	This product has not been assessed against this criteria.	-	-	N/A