

Product Name	Forbo Homogenous Vinyl Sphera Flooring (Level A certified Ecolabel)
Document Type	Green Building Rating Compatibility Analysis
Document Code	ES-GSNZ-15-105c
Client	Inzide Commercial (New Zealand)

The Sphera range is Forbo's new homogeneous vinyl floor covering which has a uniquely embossed surface that offers optimal performance is low emitting and 100% phthalate free. Sphera offers high LRV values and is a premium, durable product. Sphera offers a balanced palette of 62 colours. The Sphera range includes: Element, Energetic and Essence vinyl flooring, which are all Best Environmental Practice PVC certified and GreenTag GreenRate Level A certified.



Green Star Interiors NZ (V1)	Credit 12	Not applicable
	Credit 20	1 point
	Credit 21	Sustainability Factor (SF) = 1
Green Star Performance NZ (V1)	Credit 21	1 point
Green Star NZ (V3) Office / Industrial / Interiors + Education V3.1	MAT 3	Criteria A - 1 point & Criteria B – 2 points
	MAT 4	1 point
Green Star Design & As Built NZ (V1)	Credit 13	Not applicable
	Credit 20	1 point
	Credit 21	Sustainability Factor (SF) = 1



Homestar V4	MAT-1	2 points
	MAT-2	1 point
Homestar (V2 and V3)	MAT-1	1 merit
	MAT-2	0.75 point

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 The nominated product(s) can contribute towards the outcome but many other products or factor influence that same outcome (E.g. Potable Water Calculator)	○

Disclaimer - Please read this carefully

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Rating Tool	Credit / category	Points available	Requirements	Contribution symbol	Contribution Potential	Details of compliance
Green Star Design & As Built NZ (V1)	Credit 13	2	<p>This credit rewards the use of low VOC and low formaldehyde interior products and finishes that safeguard occupant health through the reduction in internal air pollutant levels.</p> <ul style="list-style-type: none"> - 1 point is available where at least 95% of all internally applied paints, adhesives, sealants and carpets meet stipulated 'Total VOC Limits', or, where no paints, adhesives, sealants or carpets are used in the building. - 1 point is available where at least 95% of all engineered wood products meet stipulated formaldehyde limits or no new engineered wood products are used in the building. 	✓	1 point	This product holds a level A Ecolabel certification (including the low VOC requirements)
	Credit 20	3	<p>This credit rewards projects that achieve a reduced environmental impact in the sourcing of steel, timber and PVC.</p> <p>Steel - 1 point is available where 95% of the building's steel (by mass) is sourced from a Responsible Steel Maker (manufacturer) ; and</p> <p>For steel framed buildings - at least 60% of the fabricated structural steelwork is supplied by a responsible steel fabricator/steel contractor.</p> <p>For concrete framed buildings - at least 60% (by mass) of all reinforcing bar and mesh is produced using energy-reducing processed in its manufacture holds Environmental Choice EC-41-15 certification.</p> <p>Timber - 1 point is available where at least 95% (by cost) of all timber used in the building and construction works is either certified by a recognised forest certification scheme, or is from a reused source.</p> <p>PVC - 1 point is available where 90% (by cost) of all permanent formwork, pipes, flooring, blinds and cables in a project are either PVC free, or meet the GBCA's Best Practice Guidelines for PVC.</p>	✓	1 point	The nominated Forbo level A Ecolabel certified Vinyl floors hold PVC Best Practice certification and can be used to claim 1 point provided the user also specifies other relevant items to ensure > 90% of overall products by cost comply.
	Credit 21	3	<p>This credit rewards the selection of products that meet transparency and sustainability requirements. Points are awarded based on the Project Sustainability Value (PSV*) and comparing it with the Project Contract Value (PCV).</p> <p><u>Benchmarks are:</u></p> <ul style="list-style-type: none"> - 1 point is awarded if PSV > 3% of PCV - 1 point is awarded if PSV > 6% of PCV - 1 point is awarded if PSV > 9% of PCV <p><i>The Project Sustainability Value is the sum of all the compliant product's "Product Sustainability Value" (PSV).</i></p> <p><i>The PSV = Sustainability Factor x cost of product</i></p>	✓	Sustainability Factor (SF) = 1	This flooring product holds a level A approved eco-label, therefore the Product Sustainability Value (PSV) can be calculated as : "Product Cost x 1".

Rating Tool	Credit / category	Points available	Requirements	Contribution symbol	Contribution Potential	Details of compliance
Green Star Interiors NZ (V1)	Credit 12	6	<p>This credit rewards the use of plants, as well as low VOC and low formaldehyde interior products and finishes that safeguard occupant health through the reduction in internal air pollutant levels.</p> <ul style="list-style-type: none"> - 2 points are available where at least 95% of all internally applied paints, adhesives, sealants and carpets meet stipulated 'Total VOC Limits', or, where no paints, adhesives, sealants or carpets are used in the building. - 2 points are available where at least 95% of all engineered wood products meet stipulated formaldehyde limits or no new engineered wood products are used in the building. - 2 points are available where indoor plants are distributed across the nominated area and are regularly maintained. 	✓	1 point	The nominated product holds a Level A certified Ecolabel and therefore satisfies the requirements for this credit. (including the low VOC requirements)
	Credit 20	2	<p>This credit rewards projects that achieve a reduced environmental impact in the sourcing of timber and PVC.</p> <p>Timber - 1 point is available where at least 95% (by cost) of all timber used in the building and construction works is either certified by a recognised forest certification scheme, or is from a reused source.</p> <p>PVC - 1 point is available where 90% (by cost) of all permanent formwork, pipes, flooring, blinds and cables in a project are either PVC free, or meet the GBCA's Best Practice Guidelines for PVC.</p>	✓	1 point	Forbo Level A certified Vinyl Sphera floors hold PVC Best Practice certification and can be used to claim 1 point provided the user also specifies other relevant items to ensure > 90% of overall products by cost comply.
	Credit 21	19	<p>This credit rewards the selection of products that meet transparency and sustainability requirements. Points are awarded based on the Project Sustainability Value (PSV*) and comparing it with the Total Materials Cost (TMC).</p> <p><u>Benchmarks are:</u></p> <ul style="list-style-type: none"> - 3.8 points are awarded if PSV > 20% of TMC - 7.2 points are awarded if PSV > 40% of TMC - 11.4 points are awarded if PSV > 60% of TMC - 15.2 points are awarded if PSV > 80% of TMC - 19 points are awarded if PSV = 100% of TMC <p><i>The Project Sustainability Value is the sum of all the compliant product's "Product Sustainability Value" (PSV).</i></p> <p><i>The PSV = Sustainability Factor x cost of product</i></p>	✓	Sustainability Factor (SF) = 1	This flooring product holds a level A approved eco-label, therefore the Product Sustainability Value (PSV) can be calculated as : "Product Cost x 1".

Rating Tool	Credit / category	Points available	Requirements	Contribution symbol	Contribution Potential	Details of compliance
Green Star Performance NZ (V1)	Credit 21	3	<p>This credit rewards the measurement and reduction of the environmental impacts of materials in building operations, maintenance and upgrades.</p> <p>Benchmarks are:</p> <ul style="list-style-type: none"> - 1 point is awarded for developing a sustainable procurement framework - 1 point is awarded where the top 3 consumable materials are purchased in accordance with the procurement framework - 1 point is awarded where refurbishment and maintenance materials are purchased in accordance with the procurement framework. <p><i>Refurbishment materials - This includes at a minimum :</i></p> <ul style="list-style-type: none"> - Paints adhesives, sealants and carpets (to comply with Green Star V3 "Low emitting materials"), - Concrete (to comply with Green Star V3 "Concrete and Aggregate"), - Steel (to comply with Green Star V3 "Steel"). <p><i>* Note: This credit can, if desired, be extended to include doors, wall finishes and paneling, wall and roof insulation, carpet, floor tiles, ceiling tiles, light fixtures and any other building component owned by the building owner (e.g. roof replacement, built in furniture and joinery, etc)</i></p> <p><i>This only applies if the refurbishment work is > \$5/m2, otherwise the credit is deemed N/A</i></p>	✓	1 point	<p>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. It also carries a level A approved ecolabel.</p> <p><i>Note: achieving 1 point here is dependent on the remaining products in the category also being compliant.</i></p>
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)	This flooring product holds a level A approved eco-label (contributing to 1 merit.).
	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 floor coverings)	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 flooring product holds a level A approved eco-label.
	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 1 point.

LEGACY GREEN STAR NZ TOOLS

Tool	Credit category	Points available	Requirements	Contribution symbol	Contribution Potential	Details of compliance
Green Star NZ Office V3.0 + Education V3.1 + Industrial V3.0 + Interiors V3	MAT-3	5	This credit rewards up to 5 points in total. CRITERIA A • Up to 3 points are allocated for the use of Environmentally preferable products (including Applied coatings, Insulation, Flooring, Ceilings, Internal walls and partitions). Each product type is worth up to 1 point. <u>Benchmarks are:</u> - 0.5 points are awarded if > 50% of a selected product type complies - 1 point is awarded if > 90% of a selected product type complies. CRITERIA B 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 > 60% by cost complies and 2 points are awarded if > 90% by cost complies	✓	Criteria A 1 point <hr/> Criteria B 2 points	CRITERIA A. This flooring product holds a level A approved eco-label, contributing to 1 point (unweighted in the calculator.) <i>Note: the remaining points in criteria A are achieved if the other product types also comply.</i> CRITERIA B Level A certified Forbo Vinyl Sphera floors hold PVC Best Practice certification and can be used to claim 1 or 2 points provided the user also specifies other relevant items to ensure >60% or >90% of overall products by cost comply.
Green Star NZ Office V3.0 + Education V3.1 + Industrial V3.0	MAT-4	5	This credit rewards up to 5 points in total. • 4 points are allocated for the use of low VOC and low formaldehyde emitting products (including Applied coatings, Adhesives & Sealants, Flooring, Ceilings, Internal walls & partitions) – Each product type is worth up to 1 point. <u>Benchmarks are:</u> - 0.5 points are awarded if > 50% of a selected product type complies - 1 point is awarded if > 90% of a selected product type complies. • 1 point is allocated for the use of low formaldehyde emitting engineered wood products (exposed or concealed applications) 90% complies.	✓	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.
Green Star NZ Interiors V3	MAT-4	6	This credit rewards up to 6 points in total. • 5 points are allocated for the use of low VOC and low formaldehyde emitting products (including Applied coatings, Adhesives & Sealants, Flooring, Ceilings, Internal walls & partitions + Fitout items) – Each product type is worth up to 1 point. <u>Benchmarks are:</u> - 0.5 points are awarded if > 50% of a selected product type complies - 1 point is awarded if > 90% of a selected product type complies. • 1 point is allocated for the use of low formaldehyde emitting engineered wood products (exposed or concealed applications) 90% complies.	✓	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.