

Product Name	Armstrong Flooring GreenTag Level A & PVC Best Practice Vinyl
Document Type	Green Building Rating Compatibility Analysis
Document Code	ES-GSNZ-09-10m
Client	Jacobsen

Armstrong Flooring’s range of homogeneous vinyl sheet flooring especially suitable for facilities subject to high daily use. Armstrong flooring requires low maintenance, is easy to install and there is no need to apply polish. Armstrong Flooring products are low VOC, with the current document representing products that are GreenTag Green Rate Level A certified, many of which also achieve best practice PVC compliance. (Refer to last page in this Summary Sheet document)



Green Star Design & As Built NZ (V1)	Credit 13	Not applicable
	Credit 20	1 point <i>(product exclusions noted – refer to credit compliance details)</i>
	Credit 21	Sustainability Factor (SF) = 1
Green Star Interiors NZ (V1)	Credit 12	Not applicable
	Credit 20	1 point <i>(product exclusions noted – refer to credit compliance details)</i>
	Credit 21	Sustainability Factor (SF) = 1
Green Star Performance NZ (V1)	Credit 21	1 point



Homestar V5	HC 7	1 points
	EN 3	1.5 points
Homestar V4	MAT-1	2 points
	MAT-2	1 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. 	N/A	N/A	Vinyl flooring is excluded from needing to demonstrate low VOC emissions in this Green Star tool.
	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	<p>Except for the excluded products nominated below, Armstrong Flooring GreenTag 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.</p> <p><i>Please note following product exclusions that do NOT hold PVC best practice certification:</i></p> <ul style="list-style-type: none"> - Timberline®, - Timberline® Plus, - Translations™, - Translations™ Plus
	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	<p>This flooring product holds a level A approved eco-label, therefore the Product Sustainability Value (PSV) can be calculated as :</p> <p>"Product Cost x 1".</p>

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. 	N/A	N/A	Vinyl flooring is excluded from needing to demonstrate low VOC emissions in this Green Star tool.
	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	<p>Except for the excluded products nominated below, Armstrong Flooring GreenTag 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.</p> <p><i>Please note following product exclusions that <u>do NOT hold PVC best practice certification</u>:</i></p> <ul style="list-style-type: none"> - Timberline®, - Timberline® Plus, - Translations™, - Translations™ Plus
	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	<p>This flooring product holds a level A approved eco-label, therefore the Product Sustainability Value (PSV) can be calculated as :</p> <p>"Product Cost x 1".</p>

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><u>Benchmarks are:</u></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><u>Refurbishment materials</u> - This includes at a minimum :</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 low VOC emitting and holds a level A approved eco-label, therefore satisfying the credit criteria for low VOC emissions.</p> <p><i>Note: achieving 1 point here is dependent on the remaining products in the category also being compliant.</i></p>
			<p>This credit rewards the use of low VOC and low formaldehyde interior products and finishes. The following interior finish categories are worth 1 point each provided > 80% of product compliance is achieved: Engineered wood, applied coatings, flooring products, sealants and adhesives.</p>	✓	1 point (out of 1 points available)	This product is low VOC emitting and holds a level A approved eco-label, therefore satisfying the credit criteria for low VOC emissions.
Homestar V5	HC7	4	<p>This credit rewards the use of low VOC and low formaldehyde interior products and finishes. The following interior finish categories are worth 1 point each provided > 80% of product compliance is achieved: Engineered wood, applied coatings, flooring products, sealants and adhesives.</p>	✓	1 point (out of 1 points available)	This product is low VOC emitting and holds a level A approved eco-label, therefore satisfying the credit criteria for low VOC emissions.
	EN3	10	<p>This credit rewards the selection of eco-preferred and responsibly sourced materials, with twelve possible material categories eligible for up to 1.5 points each, provided > 50% of product compliance is achieved based on the relative weighting of individual product ecolabel certifications.</p>	✓	1.5 points (out of 1.5 points available for this material category)	This flooring product holds a level A approved eco-label.
Homestar V4	MAT-1	10	<p>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.</p>	✓	2 points (out of 2 points available for floor coverings)	This flooring product holds a level A approved eco-label.
	MAT-2	4	<p>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.</p>	✓	1 point (out of 1 point available for flooring)	This product has low VOC emissions, contributing 1 point.

PVC Free / or Best Practice?	Range supplied in NZ	Link
✓	Medintone™ Diamond 10™	https://www.globalgreentag.com/products/medintone-diamond-10/
✓	Quantum	https://www.globalgreentag.com/products/quantum/
✗	Timberline®, Timberline® Plus, Translations™, Translations™ Plus	https://www.globalgreentag.com/products/timberline-translations/
✓	Australis	https://www.globalgreentag.com/products/australis/
✓	Wallflex 1.25mm	https://www.globalgreentag.com/products/wallflex-1-25mm/
✓	Wallflex 2mm / Ovation	https://www.globalgreentag.com/products/wallflex-2mm/
✓	Infinity	https://www.globalgreentag.com/products/infinity/
✓	Infinity Safe	https://www.globalgreentag.com/products/infinity-safe/
✓	Accolade Safe	https://www.globalgreentag.com/products/accolade-safe/
✓	Accolade Foothold, Infinity Foothold	https://www.globalgreentag.com/products/accolade-foothold/
✓	Accolade Plus	https://www.globalgreentag.com/products/accolade-plus/