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| Product Name | Polyflor Heterogenous Sheet Vinyl – including Forest fx and Expona Flow, BLOC PUR |
| Document Type | Green Building Rating Compatibility Analysis |
| Document Code | ES-GSNZ-11-50b |
| Client | Polyflor New Zealand Ltd |

The above nominated range of Polyflor heterogenous sheet vinyl products are GreenTag Silver (or higher) - GreenRate level A certified.

Forest fx PUR hard wearing commercial wood effect sheet vinyl featuring highly realistic wood designs in a range of shades.
Mineral fx PUR hard wearing commercial stone effect sheet vinyl featuring natural micro granite designs in a range of shades.






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|---|---|-------------|--|
|  | Green Star Design & As Built NZ (V1) | Credit 13 | N/A |
| | | Credit 20 | 1 point |
| | | Credit 21 | Sustainability Factor (SF) = 1 |
| | Green Star Interiors NZ (V1) | Credit 12 | N/A |
| | | 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 – 0 points |
| | | MAT 4 | 1 point |
|  | Homestar V4 | MAT-1 | 2 points |
| | | MAT-2 | 1 point |
| | Homestar (V2 and V3) | MAT-1 | 1 merit |
| | | MAT-2 | 0.75 point |
|  | WELL Building Standard® V1 | Feature 04 | Complies |
| | WELL Building Standard® V2 | Feature X11 | Complies |

| 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) | ○ |
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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> <p>- 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.</p> <p>- 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.</p> | N/A | N/A | This product is no longer required to demonstrate compliance to any low VOC emission criteria under this rating 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 | This flooring product has provided evidence of compliance with the GBCA's Best Practice Guidelines for PVC, which may help contribute up to 1 point provided the user also specifies other relevant items to ensure > 90% of 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 | <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> <p>- 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.</p> <p>- 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.</p> <p>- 2 points are available where indoor plants are distributed across the nominated area and are regularly maintained.</p> | N/A | N/A | This product is no longer required to demonstrate compliance to any low VOC emission criteria under this rating 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 | This flooring product has provided evidence of compliance with the GBCA's Best Practice Guidelines for PVC, which may help contribute up to 1 point provided the user also specifies other relevant items to ensure > 90% of 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". |
| 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 > 75% by cost of refurbishment and maintenance materials are purchased in accordance with the procurement framework, or 0.5 points if > 50% by cost comply. <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.</p> <p><i>* Note: While this product is not directly nominated amongst the minimum required products, if it is part of the refurbishment then it needs to be declared and demonstrate compliance.</i></p> |

| Rating Tool | Credit / category | Points available | Requirements | Contribution symbol | Contribution Potential | Details of compliance |
|----------------------------|-------------------|------------------------------|---|--|--|---|
| 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. |
| WELL Building Standard® V1 | Feature 04 | Pass/Fail | <p>Any newly installed items from the below product groups must meet prescribed low emissions criteria and/or equivalencies.</p> <p>PART 1: Interior Paints and Coatings PART 2: Interior Adhesives and Sealants PART 3: Flooring PART 4: Insulation (excluding duct insulation) PART 5: Furniture and Furnishings</p> <p>For detailed compliance criteria and acceptable equivalencies please refer to WELL V1 Standard</p> |  | Pass | This flooring product holds GreenTag GreenRate level A certification, which has been approved by IWBI as an acceptable equivalency to demonstrate compliance with this feature. |
| WELL Building Standard® V2 | Feature X11 | 3 | <p>PART 1: Furniture and Furnishings</p> <ul style="list-style-type: none"> • 1 point is available if >50% by cost of newly installed furniture and furnishings meet VOC emission thresholds. • 2 points are available if >90% by cost of newly installed furniture and furnishings meet VOC emission thresholds. <p>PART 2: Flooring and Insulation</p> <ul style="list-style-type: none"> • 1 point is available if all newly installed flooring and thermal and acoustic insulation (excluding duct insulation) inside the building meet the following VOC emission thresholds. <p>For detailed compliance criteria and acceptable equivalencies please refer to WELL V2 Standard</p> |  | 1 point (out of 1 point available for Part 2) | This flooring product holds GreenTag GreenRate level A certification, which has been approved by IWBI as an acceptable equivalency to demonstrate compliance with this feature. |

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 | <p>This credit rewards up to 5 points in total.</p> <p>CRITERIA A</p> <ul style="list-style-type: none"> 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. <p><u>Benchmarks are:</u></p> <ul style="list-style-type: none"> - 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. <p>CRITERIA 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 > 60% by cost complies and 2 points are awarded if > 90% by cost complies</p> | ✓ | <p>Criteria A 1 point</p> <hr/> <p>Criteria B 2 points</p> | <p>CRITERIA A.</p> <p>This flooring product holds a level A approved eco-label, 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</p> <p>This flooring product has provided evidence of compliance with the GBCA Best Practice Guidelines, which may help contribute up to 2 points provided the user also specifies compliant pipes, wires, blinds and resilient wall coverings, ensuring overall > 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"> 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. <p><u>Benchmarks are:</u></p> <ul style="list-style-type: none"> - 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. <ul style="list-style-type: none"> 1 point is allocated for the use of low formaldehyde emitting engineered wood products (exposed or concealed applications) 90% complies. | ✓ | 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.</p> |
| 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"> 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. <p><u>Benchmarks are:</u></p> <ul style="list-style-type: none"> - 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. <ul style="list-style-type: none"> 1 point is allocated for the use of low formaldehyde emitting engineered wood products (exposed or concealed applications) 90% complies. | ✓ | 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.</p> |