

<b>Product Name</b>	<b>Balsan Carpet</b> with Econyl fibre, Bitumen backing and < 1400 g/m <sup>2</sup> pile weight and approved EPD.
<b>Document Type</b>	Green Building Rating Compatibility Analysis
<b>Document Code</b>	ES-GSNZ-19-94b
<b>Client</b>	Belgotex New Zealand

The above-nominated Balsan carpet products with Econyl yarn are distributed by Belgotex New Zealand. Balsan carpets econyl fibre is manufactured in the Aquafil plant in Slovenia. The plant in Arthon, France, specialises in the manufacture of econyl broadloom carpet, while the plant in Neuvy-Saint-Sépulchre, France, specialises in the manufacture of econyl carpet tiles. Balsan offers a wide range of patterns, textures, and sizes of carpet tiles and broadloom. The nominated product(s) are manufactured in ISO14001 certified manufacturing plants, have been tested and certified to various low VOC schemes, and hold a published Environmental Product Declaration (EPD) which has been submitted on the basis of "worst case scenario" in terms of a pile weight of 1400 g/m<sup>2</sup>. Please refer to individual product datasheets to confirm that the product has a pile weight < 1400 g/m<sup>2</sup>, uses Econyl and includes a bitumen backing (in which case the product is covered within the scope of the EPD)



Green Star Buildings	Credit 09	0 points
	Credit 13	Minimum expectation achieved
Green Star Design & As Built NZ (V1)	Credit 13	1 point
	Credit 20	1 point
	Credit 21	Sustainability Factor (SF) = 0.75
Green Star Interiors NZ (V1)	Credit 12	2 points
	Credit 20	1 point
	Credit 21	Sustainability Factor (SF) = 0.75
Green Star Performance NZ (V1)	Credit 21	1 point



Homestar V5	HC 7	1 point
	EN3	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**

Each Building Environmental Rating Tool and Scheme nominated herein is owned and operated by its respective operative organisation, independently of EnviroSpec Ltd., and EnviroSpec Ltd. equally operates independently of any nominated rating scheme. The information represented on EnviroSpec is not endorsed by any of these organisations in a direct manner and any decision regarding final approval or refusal of points and certifications where the nominated product(s) is used is at the final discretion of the respective owners and operators of the nominated Building Environmental Rating Schemes, and any network of assessors or auditors that are accredited to operate under their assessment structure, in accordance with all associated technical manuals, rules and guidelines. For detailed technical information about each Building Environmental Rating Scheme and product related criteria please refer to the appropriate technical manuals. EnviroSpec does not accept liability for any loss or damages resulting from the use of this document and emphasizes that this document is provided as guidance only, Use of, or reliance upon, any information contained in this report is at the user's own risk. The information presented in this report is valid for the Building Environmental Rating Schemes and Tools nominated herein only. As and when the respective owners and operators publish updates or new standards or guidelines, the information may require updating. EnviroSpec Ltd. will only update information in this report upon receiving written consent from the Manufacturer, Supplier or upon request from an operative organisation of one of the Building Environmental Rating Tools nominated herein. **It is the responsibility of the reader to check for regular updates.**

Rating Tool	Credit / category	Points available	Requirements	Contribution symbol	Contribution Potential	Details of compliance
Green Star Buildings NZ	Credit 09	2	<p>The building's internal finishes are comprised of responsibly manufactured products.</p> <p><u>Credit achievement</u> – 1 point is available if 40% of all internal building finishes (by cost) meet a Responsible Products Value (RPV) <math>\geq 7</math>.</p> <p><u>Exceptional Performance</u> – 1 additional point is available if, in conjunction with the above, either 10% of all internal building finishes (by cost) meet a RPV <math>\geq 12</math>, or 60% of all internal building finishes (by cost) meet a <math>\geq 7</math>.</p> <p><i>Internal finishes include flooring, plasterboard, paints, ceilings, partitions, doors, internal glazing partitions or similar. Joinery used as part of a wall finish may be counted, e.g., wall paneling or fixed shelving/cupboards that make up a partition. Sealants &amp; adhesives used for finishes are also included. Loose furniture is not included.</i></p>	✓	0 points	The nominated products hold a product specific EPD and are manufactured in ISO14001 certified premises, which combined equate to RPV 6.
	Credit 13	2	<p>The building's occupants are not directly exposed to toxins in the spaces they spend time in.</p> <p><u>Minimum Expectation</u> – It is a mandatory minimum (nil points awarded) that the building's paints, adhesives, sealants, carpets, and engineered wood products are low in TVOC or non-toxic (i.e meet the low VOC and Formaldehyde thresholds stated in the Green Star submission guidelines); and occupants are not exposed to banned or highly toxic materials in the building (i.e a survey on any existing buildings or structures is undertaken and any identified asbestos, lead, or PCBs is stabilised or removed and disposed of in accordance with best practice guidelines.)</p> <p><u>Credit Achievement</u> – 2 points are available if on-site tests verify the building has low Volatile Organic Compounds (VOC) and formaldehyde levels. Testing must take place after practical completion and prior to occupants moving into the building, and in accordance with the criteria stated in the Green Star submission guidelines.</p>	✓	Minimum expectation achieved	<p>The nominated products' datasheets show compliance with GUT emissions testing, which is based on ISO 16000-6 and includes TVOC at 3 days in accordance with the Green Star Submission Guidelines.</p> <p><i>Note: achieving the minimum expectation here is dependent on the remaining products in the category also being compliant.</i></p>

Rating Tool	Credit / category	Points available	Requirements	Contribution symbol	Contribution Potential	Details of compliance
<b>Green Star Design &amp; As Built NZ (V1)</b>	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>	✓	1 point	<p>The nominated products demonstrate compliance with low VOC emissions via either GUT or AgBB accreditation. These are nominated as suitable VOC standards within Environmental Choice NZ, which is an approved ecolabel.</p> <p><i>Note: achieving 1 point here is dependent on the remaining products in the category also being compliant.</i></p>
	Credit 20	3	<p>This credit rewards projects that achieve a reduced environmental impact in the sourcing of steel, timber and PVC.</p> <p><b>Steel</b> - 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><b>Timber</b> - 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><b>PVC</b> - 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>The nominated flooring products are PVC free, which may help contribute up to 1 point provided the user also specifies other relevant items to ensure &gt; 90% of products by cost comply.</p>
	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> <p>- 1 point is awarded if PSV &gt; 3% of PCV - 1 point is awarded if PSV &gt; 6% of PCV - 1 point is awarded if PSV &gt; 9% of PCV</p> <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) = 0.75	<p>The nominated products hold a valid product specific EPD , therefore the Product Sustainability Value (PSV) can be calculated as :</p> <p>"Product Cost x 0.75".</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"> <li>- 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.</li> <li>- 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.</li> <li>- 2 points are available where indoor plants are distributed across the nominated area and are regularly maintained.</li> </ul>	✓	2 points	<p>The nominated products demonstrate compliance with low VOC emissions via either GUT or AgBB accreditation. These are nominated as suitable VOC standards within Environmental Choice NZ, which is an approved ecolabel.</p> <p><i>Note: achieving 2 points here is dependent on the remaining products in the category also being compliant.</i></p>
	Credit 20	2	<p>This credit rewards projects that achieve a reduced environmental impact in the sourcing of timber and PVC.</p> <p><b>Timber</b> - 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><b>PVC</b> - 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>The nominated flooring products are PVC free, which may help contribute up to 1 point provided the user also specifies other relevant items to ensure &gt; 90% of products by cost comply.</p>
	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"> <li>- 3.8 points are awarded if PSV &gt; 20% of TMC</li> <li>- 7.2 points are awarded if PSV &gt; 40% of TMC</li> <li>- 11.4 points are awarded if PSV &gt; 60% of TMC</li> <li>- 15.2 points are awarded if PSV &gt; 80% of TMC</li> <li>- 19 points are awarded if PSV = 100% of TMC</li> </ul> <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) = 0.75	<p>The nominated products hold a valid product specific EPD , therefore the Product Sustainability Value (PSV) can be calculated as : "Product Cost x 0.75".</p>
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"> <li>- 1 point is awarded for developing a sustainable procurement framework</li> <li>- 1 point is awarded where the top 3 consumable materials are purchased in accordance with the procurement framework</li> <li>- 1 point is awarded where &gt; 75% by cost of refurbishment and maintenance materials are purchased in accordance with the procurement framework, or 0.5 points if &gt; 50% by cost comply.</li> </ul> <p><u>Refurbishment materials</u> - This includes at a minimum :</p> <ul style="list-style-type: none"> <li>- <b>Paints adhesives, sealants and carpets</b> (to comply with Green Star V3 "Low emitting materials"),</li> <li>- <b>Concrete</b> (to comply with Green Star V3 "Concrete and Aggregate"),</li> <li>- <b>Steel</b> (to comply with Green Star V3 "Steel").</li> </ul> <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 &gt; \$5/m2, otherwise the credit is deemed N/A</i></p>	✓	1 point	<p>This flooring product holds a valid GUT and AgBB rating, which has been approved with equivalency to demonstrate compliance with this feature, therefore satisfying the credit criteria for low VOC emissions (contributing to 1 point).</p> <p><i>Note: achieving 0.5 or 1 point here is dependent on total % achieved when including the other refurbishment products purchased.</i></p>

Rating Tool	Credit / category	Points available	Requirements	Contribution symbol	Contribution Potential	Details of compliance
Homestar V5	HC7	4	This credit rewards the use of low VOC and low formaldehyde interior products and finishes. Floor coverings are one of four interior finish categories eligible for 1 point each, provided > 80% of product compliance is achieved.	✓	1 point (out of 1 point available for floor coverings)	The nominated products demonstrate compliance with low VOC emissions via either GUT or AgBB accreditation. These are nominated as suitable VOC standards within Environmental Choice NZ, which is an approved ecolabel.
	EN3	10	This credit rewards the selection of eco-preferred and responsibly sourced materials, with thirteen 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.	✓	1.25 points (out of 1.5 points available for this material category)	The nominated products hold a valid product specific EPD contributing to 1.25 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.	✓	1.5 points (out of 2 points available for floor coverings)	The nominated products hold a valid product specific EPD contributing to 1.5 points
	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 floor coverings)	The nominated products demonstrate compliance with low VOC emissions via either GUT or AgBB accreditation. These are nominated as suitable VOC standards within Environmental Choice NZ, which is an approved ecolabel.