

<b>Product Name</b>	USG Boral Plasterboard (Good Environmental Choice Australia certified)
<b>Document Type</b>	Green Building Rating Compatibility Analysis
<b>Document Code</b>	ES-GSNZ-20-95
<b>Client</b>	USG Boral New Zealand

USG Boral plasterboard is composed of a gypsum core encased in 100% recycled paper on the front and backside. They hold a published Good Environmental Choice Australia License. USG Boral is also Habitat for Humanity Australia's 'Building Community Resilience' program partner.



Green Star Design & As Built NZ (V1)	Credit 21	Sustainability Factor (SF) = 1
Green Star Interiors NZ (V1)	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 MAT 4	Criteria A - 1 point 1 point



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

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
<b>Green Star Design &amp; As Built NZ (V1)</b>	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"> <li>- 1 point is awarded if PSV &gt; 3% of PCV</li> <li>- 1 point is awarded if PSV &gt; 6% of PCV</li> <li>- 1 point is awarded if PSV &gt; 9% of PCV</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) = 1	<p>This 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>
<b>Green Star Interiors NZ (V1)</b>	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) = 1	<p>This 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>
<b>Green Star Performance NZ (V1)</b>	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 refurbishment and maintenance materials are purchased in accordance with the procurement framework.</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 product complies with the VOC emission requirements of a level A recognized ecolabel, and therefore satisfies the credit criteria for this credit.</p> <p><i>Note: achieving 1 point here is dependent on the remaining products in the category also being compliant.</i></p>

Green Building Rating Tool	Credit category	Points available	Requirements	Contribution symbol	Contribution Potential	Details of compliance
Homestar (V2 and V3)	MAT - 1	9	This credit rewards the use selection of eco-preferred and responsibly sourced materials. Walls and/or Wall Ceilings are amongst thirteen possible construction types eligible for 1 merit each.	✓	1 merit <i>(out of 1 available for this construction system)</i>	This product holds a level A approved eco-label and satisfies the requirements for this credit
Homestar V4	MAT - 1	10	This credit rewards the use selection of eco-preferred and responsibly sourced materials. Walls and/or Wall Ceilings are amongst thirteen possible construction types eligible for 2 points each.	✓	2 points <i>(out of 2 available for this construction type)</i>	This product holds a level A approved eco-label and satisfies the requirements for this credit
Passive House	N/A	N/A	<p><u>General Guidance Note:</u> Interior Plasterboard finish plays only a very minor role in the construction R value of a wall, which is more influenced by insulation levels, moisture levels and any thermal bridging through framing elements. It is not recommended that this product be used as the air barrier for Passive House as it will get penetrated by services and normal use of the building (e.g. attaching kitchen cabinetry to wall, etc). A dedicated air barrier system with sealed joints is the preferred option.</p>			

## LEGACY GREEN STAR NZ TOOLS

Green Building Rating Tool	Credit category	Points available	Requirements	Contribution symbol	Contribution Potential	Details of compliance
<b>Green Star NZ</b>  <b>Office V3.0</b> + <b>Education V3.1</b> + <b>Industrial V3.0</b> + <b>Interiors 2009</b> <i>(using V3 MAT credits)</i>	MAT-3	5	This credit rewards up to 5 points in total.  <b>CRITERIA A</b> • 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.  <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.  <b>CRITERIA B</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	✔	<b>1 point</b> <i>(out of 1 available for this product type)</i>	CRITERIA A. The nominated plasterboard products are Level A approved ecolabel certified, contributing 1 point (unweighted in the calculator.)  <i>Note: the remaining points in criteria A are achieved if the other product types also comply.</i>
<b>Green Star NZ</b>  <b>Office V3.0</b> + <b>Education V3.1</b> + <b>Industrial V3.0</b>	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.	✔	<b>1 point</b> <i>(out of 1 available for this product type)</i>	This product complies with the VOC emission requirements of a level A recognized ecolabel, and therefore satisfies the credit criteria for this credit.  <i>Note: the remaining points in MAT 4 are achieved if the other product types also comply.</i>
<b>Green Star NZ</b>  <b>Interiors 2009</b> <i>(using V3 MAT credits)</i>	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.	✔	<b>1 point</b>	This product complies with the VOC emission requirements of a level A recognized ecolabel, and therefore satisfies the credit criteria for this credit.  <i>Note: the remaining points in MAT 4 are achieved if the other product types also comply.</i>