

Product Name	Superior Doors - Particleboard core doors (Door leaf only)
Document Type	Green Building Rating Compatibility Analysis
Document Code	ES-GSNZ-24-106a
Client	Superior Doors

The Particleboard core door carries a DECLARE label (Red list free with exempt compounds). All major timber components are sourced from suppliers and products that carry ecolabels. The Responsible Product Value (RPV) is calculated using a mass-weighted average of the RPV for the major components. The ratio of component products varies with the final dimension of the doors leaf. In accordance with the DECLARE data (<https://declare.living-future.org/products/solid-particleboard-core-interior-door>) major component range from:

- Particleboard core – Laminex Superfine MR - 48.2% to 66.4% (RPV = 12)
- MDF skins GoldenEdge MDF, or Daiken Southland MDF. - 13.8% to 27.8% (RPV = 17 to 22)
- The remainder being the finger-jointed pine frame, as well as various adhesives and coatings used. (RPV = 0)

Rather than custom calculating an RPV for each door dimension, a single RPV is calculated using the most conservative values in the afore-mentioned ratios. This "worst case scenario" RPV can be applied to all common door sizes

This Green Building Summary Sheet is applicable to the door leaf only and excludes any hardware such as hinges, handles, latches, as well as any final paint finish. The final product weight of the door leaves for average standard sizes with 4mm MDF skins is shown below (for alternative door sizes/configurations please contact Superior Doors):

760mm x 1980mm = 36kg
 810mm x 1980mm = 38.5kg
 810mm x 1980mm = 41.1kg
 860mm x 1980mm = 43.7kg

When taking into account the DECLARE label, The total average weighted (worst case scenario) RPV of the main door leaf components is therefore RPV = 11.13



Green Star Buildings	Credit 09	Up to 2 points
	Credit 13	Minimum expectation achieved <i>TBC</i>
Green Star Design & As Built NZ (V1)	Credit 13	1 point
	Credit 20	0 points
	Credit 21	Sustainability Factor (SF) = 1
Green Star Interiors NZ (V1)	Credit 12	2 points <i>TBC</i>
	Credit 20	0 points
	Credit 21	Sustainability Factor (SF) = 1
Green Star Performance NZ (V1)	Credit 21	1 point <i>TBC</i>




Homestar V5	HC 7	1 point <i>TBC</i>
	EN3	1.5 points
Homestar V4	MAT-1	2 points
	MAT-2	1 point <i>TBC</i>

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 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) ≥ 7.</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 ≥ 12, or 60% of all internal building finishes (by cost) meet a ≥ 7.</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 & adhesives used for finishes are also included. Loose furniture is not included.</i></p>		Up to 2 points	The nominated product holds a combination of eco-labels that equate to RPV 11 in accordance with the GBCA Score-checker.
	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>		<p>TBC <i>("awaiting final additional statement from Bell Labs")</i></p>	<p>The Bell Labs report states on page 3 "The products were [...] evaluated for compliance with [...] and GECA Sustainable Products and Services SPSv2.0i-2020, which is listed as a Recognised Product Certification Scheme in the 'Exposure to Toxins Product Certifications Schemes Index'.</p> <p><u>Note:</u> achieving the minimum expectation here is dependent on the remaining products in the category also being compliant.</p>

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>		TBC <i>("awaiting final additional statement from Bell Labs")</i>	<p>The Bell Labs report states on page 3 "The products were [...] evaluated for compliance with [...] and GECA Sustainable Products and Services SPSv2.0i-2020, which is listed as a Recognised Product Certification Scheme .</p> <p><i>Note: achieving the minimum expectation 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>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>	☒	0 points	<p>FSC is not currently available for The nominated products(s).</p> <p><i>Note: While a portion of individual components include FSC certification, Superior Doors do not currently carry FSC accreditation themselves and are not yet able to pass on the Chain of Custody to the construction project.</i></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> <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>The NZGBC TQ published 08/23 clarifies an equivalency whereby an RPV may be converted to the previous levels A, B and C.</p> <ul style="list-style-type: none"> • RPV 10 or above = Level A • RPV 7 – 9 = Level B • RPV 5 – 6 = Level C <p>The nominated product(s) <i>achieve</i> an RPV of 11.13 or better in accordance with the GBCA Score-checker.</p> <p>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>		TBC (*awaiting final additional statement from Bell Labs)	<p>The Bell Labs report states on page 3 "The products were [...] evaluated for compliance with [...] and GECA Sustainable Products and Services SPSv2.0i-2020, which is listed as a Recognised Product Certification Scheme .</p> <p><i>Note: achieving the minimum expectation 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>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>	☒	0 points	<p>FSC is not currently available for The nominated products(s).</p> <p><i>Note: While a portion of individual components include FSC certification, Superior Doors do not currently carry FSC accreditation themselves and are not yet able to pass on the Chain of Custody to the construction project.</i></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"> - 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>The NZGBC TQ published 08/23 clarifies an equivalency whereby an RPV may be converted to the previous levels A, B and C.</p> <ul style="list-style-type: none"> • RPV 10 or above = Level A • RPV 7 – 9 = Level B • RPV 5 – 6 = Level C <p>The nominated product(s) achieve an RPV of 11.13 or better in accordance with the GBCA Score-checker.</p> <p>Therefore the Product Sustainability Value (PSV) can be calculated as:</p> <p>"Product Cost x 1".</p>

<p>Green Star Performance NZ (V1)</p>	<p>Credit 21</p>	<p>3</p> <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><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>		<p>TBC <i>(*awaiting final additional statement from Bell Labs)</i></p>	<p>The Bell Labs report states on page 3 "The products were [...] evaluated for compliance with [...] and GECA Sustainable Products and Services SPSv2.0i-2020, which is listed as a Recognised Product Certification Scheme .</p> <p><u>Note:</u> achieving the minimum expectation here is dependent on the remaining products in the category also being compliant.</p>
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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. Engineered wood is one of four interior finish categories eligible for 1 point each, provided > 80% of product compliance is achieved.		TBC <i>(*awaiting final additional statement from Bell Labs)</i>	The Bell Labs report states on page 3 "The products were [...] evaluated for compliance with [...] and GECA Sustainable Products and Services SPSv2.0i-2020 , which is listed as a Recognised Product Certification Scheme . <i>Note: achieving the minimum expectation here is dependent on the remaining products in the category also being compliant.</i>
	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.	✓	1.5 points <i>(out of 1.5 points available for this material category)</i>	Homestar TQ 220 published 10/24 clarifies an equivalency whereby an RPV may be converted to the previous levels A, B and C. • RPV 10 or above = Level A • RPV 7 – 9 = Level B • RPV 5 – 6 = Level C The nominated product(s) achieve an RPV of 11.13 or better in accordance with the GBCA Score-checker. Therefore 1.5 points can be claimed
Homestar V4	MAT-1	10	This credit rewards the use of eco-preferred and responsibly sourced materials. Engineered Wood Products are one of thirteen possible material categories eligible for 2 points each.	✓	2 points <i>(out of 2 points available for this material category)</i>	Homestar TQ 220 published 10/24 clarifies an equivalency whereby an RPV may be converted to the previous levels A, B and C. • RPV 10 or above = Level A • RPV 7 – 9 = Level B • RPV 5 – 6 = Level C The nominated product(s) achieve an RPV of 11.13 or better in accordance with the GBCA Score-checker. Therefore 2 points can be claimed
	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.		TBC <i>(*awaiting final additional statement from Bell Labs)</i>	The Bell Labs report states on page 3 "The products were [...] evaluated for compliance with [...] and GECA Sustainable Products and Services SPSv2.0i-2020 , which is listed as a Recognised Product Certification Scheme . <i>Note: achieving the minimum expectation here is dependent on the remaining products in the category also being compliant.</i>