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Document Type
Green Building Rating Compatibility Analysis

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ES-GSNZ-11-47b

Validity		
	Homestar V2 + V3 + V4	✓
	V3.2 / Interiors 2009 / Education 2009 + V3 + V3.1 / Industrial 2009 / Office 2009	✓
	V 1.1	Not assessed
	V3.0	✗
	NABERSNZ	Not applicable
	Passive House	Not applicable
	Net Zero Building Certification	Not applicable

Client
Daiken New Zealand Limited

Product Name
Customwood Superfinish MDF

Product Description	
<p>SuperFinish® provides super high-gloss and blemish-free paint finishes on all edges/surfaces, and is available in Super E0 meaning ultra low Formaldehyde emissions. The product uses Customwood® as a base (core). The product is made with softwood (pine species) fibres from NZ South Island plantations. The supplier has FSC chain of custody.</p>	

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 can contribute towards the outcome but many other products or factor influence that same outcome (E.g. Potable Water Calculator)	○

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Tool	Credit category	Points available	Requirements	Contribution symbol	Contribution Potential	Details of compliance
Green Star NZ Office 2009 + Industrial 2009	MAT - 6	3	This credit rewards the use of FSC certified timber and appropriate timber treatment	✓	3 points	If sourced from Daiken and used directly in the building project, then the chain of Custody has been carried through in accordance with the requirements of the Green Star NZ Technical Manual. <i>See Note ** below</i>
	MAT - K	2	This credit rewards the use of eco-preferred and/or low formaldehyde emitting products for ceiling tiles, engineered wood products and gypsum plasterboard.	✓	2 points.	The nominated product has E0 or lower formaldehyde emissions, as well ECNZ certification, satisfying the full points requirements for engineered wood products.
Green Star NZ Education (2009 +V3)	MAT - 6	3	This credit rewards the use of FSC certified timber and appropriate timber treatment.	✓	Up to 3 points	If sourced from Daiken and used directly in the building project, then the chain of Custody has been carried through in accordance with the requirements of the Green Star NZ Technical Manual. <i>See Note ** below</i>
	MAT - B	3	Up to 3 points are available where it is demonstrated that the walls, partitions and joinery used have a reduced environmental impact as determined by the MAT-B walls and partitions calculator.	✓	Up to 3 points (unweighted product calculator score)	When used for internal walls/partitions: *Board without finish required (i.e. pre-finished ECNZ certified board) = 2.5 points. Board requiring additional paint or finish = 1.25 points (with the additional 1.25 points achievable if the paint/finish also has an approved eco label.) Note: the remaining 0.5 points can be achieved if the wall is dismantable and designed for disassembly. When used for Joinery: *Joinery without finish required (i.e. Prefinished ECNZ certified joinery) = 3 points. Joinery requiring additional paint or finish = 1.5 points (with the additional 1.5 points achievable if the paint/finish also has an approved eco label.)
Office Interiors 2009	MAT - 6	3	This credit rewards the use of FSC certified timber and appropriate timber treatment.	✓	Up to 3 points	If sourced from Daiken and used directly in the building project, then the chain of Custody has been carried through in accordance with the requirements of the Green Star NZ Technical Manual. <i>See Note ** below</i>

	MAT - B	7	Up to 7 points are available where it is demonstrated that the walls, partitions and joinery used have a reduced environmental impact as determined by the MAT-B walls and partitions calculator.	✔	Up to 7 points (unweighted product calculator score)	<p>The nominated Daiken product complies in the following manner.</p> <p>When used for internal walls/partitions: *Board without finish required (i.e. pre-finished ECNZ certified board) = 5.83points. Board requiring additional paint or finish = 2.92points (with the additional 2.92 points achievable if the paint/finish also has an approved eco label.) Note: the remaining 1.17 points can be achieved if the wall is dismantlable and designed for disassembly.</p> <p>When used for Joinery: *Joinery without finish required (i.e. Prefinished ECNZ certified joinery) = 7 points. Joinery requiring additional paint or finish = 3.5 points (with the additional 3.5 points achievable if the paint/finish also has an approved eco label.)</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> <p>CRITERIA A</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. <p>CRITERIA B</p> <ul style="list-style-type: none"> • 1 point is allocated for the use of low formaldehyde emitting engineered wood products (exposed or concealed applications). <p><u>Benchmarks are:</u></p> <ul style="list-style-type: none"> - 0.5 points are awarded if > 50% of engineered wood products complies. - 1 point is awarded if > 90% of engineered wood products comply. 	✔	1 point	This product satisfies the low Formaldehyde requirements of this credit.
Interiors V3.0	MAT-4	6	<p>This credit rewards up to 6 points in total.</p> <p>CRITERIA A</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 and fit out 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. <p>CRITERIA B</p> <ul style="list-style-type: none"> • 1 point is allocated for the use of low formaldehyde emitting engineered wood products (exposed or concealed applications). <p><u>Benchmarks are:</u></p> <ul style="list-style-type: none"> - 0.5 points are awarded if > 50% of engineered wood products complies. - 1 point is awarded if > 90% of engineered wood products comply. 	✔	1 point	This product satisfies the low Formaldehyde requirements of this credit.

<p>Green Star NZ</p> <p>Office</p> <p>V3.0</p> <p>+</p> <p>Education</p> <p>V3.1</p> <p>+</p> <p>Industrial</p> <p>V3.0</p> <p>+</p> <p>Interiors V3.0</p>	MAT-6	3	<p>This credit rewards up to 3 points in total.</p> <p>PRE-REQUISIT CRITERIA</p> <ul style="list-style-type: none"> • 1 point is awarded where 90% (by volume) of all new timber products used in the project and construction works are from certified sustainably managed forests (FSC) OR are re-used or recycled. <p>Where the pre-requisite point is achieved up to a maximum of 2 additional points can be achieved through a combination of criteria A and B:</p> <p>CRITERIA A</p> <ul style="list-style-type: none"> • Up to 2 points are allocated for the use of Environmentally preferable wood products (for applications including structural and non-structural timber including wall, floor and roof structures / External and internal cladding / Structural formwork / Flooring, wall and ceiling finishes / Internal and external joinery including windows, doors and other specialist uses of timber such as installed furnishings, joinery fixtures or balustrades). <p>Benchmarks are:</p> <ul style="list-style-type: none"> - 1 point is awarded if > 30% of selected products comply. - 2 points are awarded if > 60% of selected products comply. <p>CRITERIA B</p> <ul style="list-style-type: none"> • Up to 1 point is allocated for timber used (excluding interior finishing timber products) that has reduced toxicity through either minimum treatment levels / Arsenic , Chrome , LOSP free treatments / non chemical treatments or use of untreated timber. <p>Benchmarks are:</p> <ul style="list-style-type: none"> - 0.5 points are awarded if > 30% of selected products comply. - 1 point is awarded if > 60% of selected products comply. 	✓	3 points	<p>PRE-REQUISITE CRITERIA. If sourced from Daiken and used directly in the building project, then the FSC Chain of Custody has been carried through in accordance with the requirements of the Green Star NZ Technical Manual.</p> <p>CRITERIA A. The nominated product has ECNZ certification, contributing up to 2 points in the calculator (if the other products also comply. And the project team achieves the 60% benchmark)</p> <p>CRITERIA B. The nominated product is typically used for interior finishing applications and therefore does not qualify for inclusion under Criteria B.</p>
<p>Homestar</p> <p>(V2 and V3)</p>	MAT - 1	9	<p>This credit rewards the use of eco-preferred and responsibly sourced materials. When used for joinery, wall, flooring or other applications,</p>	✓	1 merit (out of 1 available for this construction system)	The nominated product is Environmental Choice NZ certified, satisfying the requirements for this credit.
	MAT - 2	3	<p>This credit rewards the use of low VOC and low formaldehyde interior products and finishes.</p>	✓	0.75 points (out of 0.75 available for composite timber boards)	This product satisfies the low Formaldehyde requirements of this credit.
<p>Homestar</p> <p>(V4)</p>	MAT - 1	10	<p>This credit rewards the use of eco-preferred and responsibly sourced materials. When used for joinery, wall, flooring or other applications,</p>	✓	2 points (out of 2 available for this material category)	The nominated product is Environmental Choice NZ certified, satisfying the requirements for this credit.
	MAT - 2	4	<p>This credit rewards the use of low VOC and low formaldehyde interior products and finishes.</p>	✓	1 point (out of 1 available for engineered wood)	This product satisfies the low Formaldehyde requirements of this credit.

Living Building Challenge	Imperative 10	Pass/Fail	Other than advised through a temporary exception, the project cannot contain any of the following Red List materials or chemicals.	-	-	The nominated product has not been assessed against this standard.
	Imperative 12	Pass/Fail	All projects must use, at a minimum, one Declare product for every 500 square meters of gross building area	<input checked="" type="checkbox"/>	FAIL	The nominated product does not hold a DECLARE label.
SBN Circular Economy Office Model V1.1		Pass/Fail	The nominated product has not been assessed against this criteria.	-	-	The nominated product has not been assessed against this standard.
Passive House	N/A	N/A	<p><u>General Guidance Note:</u> IN most cases this product's intended use does not fall within the scope of Passive House, unless it is used for wall applications, in which case Interior wall 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>			

*Points available and points achieved are considered pre-weighting. Final Green Star NZ / Homestar category weightings for each tool still apply.
 Note**: these points are only available if the correct % targets are achieved and timber is not treated above NZ Building Code requirements for each application. Achieving these targets and specifying timber treatment levels is the responsibility of the design team, not the product supplier.
 2 Post – September 2013, the NZGBC released updated credit classifications with the VOC/ Formaldehyde emission limits on products now being incorporated into the MAT category.