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Green Building Rating Compatibility Analysis

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

Client
NZ Panels Group

Product Name
Kopine ECNZ certified particleboard flooring and panels

Product Description	
<p>Kopine offers a range of ECNZ certified high density particleboard products for flooring (Kopine Ultralock™ 12 and Tongue & Groove 12), and medium density particleboard panels ideal substrate for laminate and veneer finishes and for furniture and shelving. All products are E1 or lower formaldehyde emitting.</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 - 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 E1 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.	✗	0 points	FSC is not currently available for the nominated product(s).
	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 dismantlable 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.	✗	0 points	FSC is not currently available for the nominated product(s).
	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)	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. 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</p>	<p>MAT-4</p>	<p>5</p>	<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. 	<p></p>	<p>1 point</p>	<p>The nominated product is available in E1 and E0 emission levels, thus satisfying the low Formaldehyde requirement for this credit.</p>
<p>Green Star NZ Office V3.0 + Education V3.1 + Industrial V3.0 + Interiors 2009 using V3 credits V3.0</p>	<p>MAT-6</p>	<p>3</p>	<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><u>Benchmarks are:</u></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><u>Benchmarks are:</u></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. 	<p></p>	<p>Up to 3 points</p>	<p>PRE-REQUISITE CRITERIA. This product cannot contribute towards the prerequisite criteria if being used as a flooring product. The prerequisite benchmarks must first be achieved using other timber products , and only then can points be claimed for Kopine as per below.</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 (V2 and V3)</p>	<p>MAT - 1</p>	<p>9</p>	<p>This credit rewards the use of eco-preferred and responsibly sourced materials. When used for joinery, wall, flooring or other applications,</p>	<p></p>	<p>1 merit (out of 1 available for this construction system)</p>	<p>The nominated product is Environmental Choice NZ certified, satisfying the requirements for this credit.</p>
	<p>MAT - 2</p>	<p>3</p>	<p>This credit rewards the use of low VOC and low formaldehyde interior products and finishes.</p>	<p></p>	<p>0.75 points (out of 0.75 available for engineered wood)</p>	<p>This product satisfies the low Formaldehyde requirements of this credit.</p>

Homestar (V4)	MAT-1	10	This credit rewards the use of eco-preferred and responsibly sourced materials. Interior Engineered Wood is one of thirteen possible material categories eligible for 2 points each.	✔	2 points (out of 2 points available for this material category)	The nominated product is Environmental Choice NZ certified, satisfying the requirements for this credit.
	MAT-2	4	This credit rewards the use of low VOC and low formaldehyde interior products and finishes. Engineered wood is one of four material categories eligible for 1 point each.	✔	1 point (out of 1 available for engineered wood)	This product satisfies the low Formaldehyde requirements of this credit.
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.
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	☒	FAIL	The nominated product does not hold a DECLARE label.
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.

** 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.