Product Name	**Kopine Eco Choice Aotearoa certified particleboard flooring and panels**
Document Type	Green Building Rating Compatibility Analysis
Document Code	ES-GSNZ-18-91c
Client	NZ Panels Group

Kopine offers a range of ECA certified high density particleboard products for flooring (Kopine Ultralock™12 and Tongue & Groove12), 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.

greenstar

Green Star Buildings	Credit 09	Up to 2 points
	Credit 13	Minimum expectation achieved
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
	Credit 20	0 points
	Credit 21	Sustainability Factor (SF) = 1
Green Star Performance NZ (V1)	Credit 21	1 point

homestar

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)	○

Rating Tool	Credit / category	Points available	Requirements	Contribution symbol	Contribution Potential	Details of compliance
Green Star *Buildings NZ*	Credit 09	2	The building's internal finishes are comprised of responsibly manufactured products. Credit achievement – 1 point is available if 40% of all internal building finishes (by cost) meet a Responsible Products Value (RPV) ≥ 7. Exceptional Performance – 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. *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.*	✔	Up to 2 points	This joinery product holds ECA certification, which has RPV 7.
	Credit 13	2	The building's occupants are not directly exposed to toxins in the spaces they spend time in. Minimum Expectation – 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.) Credit Achievement – 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.	✔	Minimum expectation achieved	The nominated product has ECA certification under EC-32-17 which is listed as a Recognised Product Certification Scheme in the 'Exposure to Toxins Product Certifications Schemes Index'. *Note: achieving the minimum expectation here is dependent on the remaining products in the category also being compliant.*

Rating Tool	Credit / category	Points available	Requirements	Contribution symbol	Contribution Potential	Details of compliance
Green Star Design & As Built NZ (V1)	Credit 13	2	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. - 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. - 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.	✔	1 point	The nominated product has E0 or lower formaldehyde emissions, as well ECA certification, satisfying the requirements for engineered wood products. *Note: achieving 1 point here is dependent on the remaining products in the category also being compliant.*
	Credit 20	3	This credit rewards projects that achieve a reduced environmental impact in the sourcing of steel, timber and PVC. **Steel -** 1 point is available where 95% of the building's steel (by mass) is sourced from a Responsible Steel Maker (manufacturer) ; and For steel framed buildings - at least 60% of the fabricated structural steelwork is supplied by a responsible steel fabricator/steel contractor. 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. **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. **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.	☒	0 points	FSC is not currently available for the nominated product(s). *Note: FSC certification of EWP base panel manufacturing sites does not automatically confer points for Green Star NZ, unless the product is delivered directly to the construction site from the panel manufacturer without breaking the chain of custody. Any materials being provided to New Zealand joiners that do not themselves carry FSC accreditation means the chain of custody is broken and the material cannot be counted as compliant.*
	Credit 21	3	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). Benchmarks are: - 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 *The Project Sustainability Value is the sum of all the compliant product's "Product Sustainability Value" (PSV).* *The PSV = Sustainability Factor x cost of product*	✔	Sustainability Factor (SF) = 1	This Timber product holds a level A approved eco-label, therefore the Product Sustainability Value (PSV) can be calculated as : "Product Cost x 1".

Rating Tool	Credit / category	Points available	Requirements	Contribution symbol	Contribution Potential	Details of compliance
Green Star Interiors NZ (V1)	Credit 12	6	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. - 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. - 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. - 2 points are available where indoor plants are distributed across the nominated area and are regularly maintained.	✔	2 points	The nominated product has E0 or lower formaldehyde emissions, as well as ECA certification, satisfying the requirements for engineered wood products. *Note: achieving 2 points here is dependent on the remaining products in the category also being compliant.*
	Credit 20	2	This credit rewards projects that achieve a reduced environmental impact in the sourcing of timber and PVC. **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. **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.	☒	0 points	FSC is not currently available for the nominated product(s). *Note: FSC certification of EWP base panel manufacturing sites does not automatically confer points for Green Star NZ, unless the product is delivered directly to the construction site from the panel manufacturer without breaking the chain of custody. Any materials being provided to New Zealand joiners that do not themselves carry FSC accreditation means the chain of custody is broken and the material cannot be counted as compliant.*
	Credit 21	19	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). Benchmarks are: - 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 *The Project Sustainability Value is the sum of all the compliant product's "Product Sustainability Value" (PSV).* *The PSV = Sustainability Factor x cost of product*	✔	Sustainability Factor (SF) = 1	This Timber product holds a level A approved eco-label, therefore the Product Sustainability Value (PSV) can be calculated as : "Product Cost x 1".
Green Star Performance NZ (V1)	Credit 21	3	This credit rewards the measurement and reduction of the environmental impacts of materials in building operations, maintenance and upgrades. Benchmarks are: - 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. *Refurbishment materials - This includes at a minimum :* - **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"). ** 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)* *This only applies if the refurbishment work is > $5/m2, otherwise the credit is deemed N/A*	✔	1 point	If Engineered Wood Products are part of the refurbishment materials purchased by the Building Owner / Landlord (as part of the base building), then they are to be included in the calculation. The nominated product has E0 or lower formaldehyde emissions and therefore satisfies the credit criteria for low product emissions. It also carries a level A approved ecolabel. Note: achieving 0.5 or 1 point here is dependent on total % achieved when including the other refurbishment products purchased.

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.	✔	1 point (out of 1 points available)	This product satisfies the low Formaldehyde requirements of this credit.
Homestar V5	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 (out of 1.5 points available for this material category)	The nominated product is ECA certified, satisfying the requirements for this credit.
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.	✔	2 points (out of 2 points available for this material category)	The nominated product is ECA certified, satisfying the requirements for this credit.
Homestar V4	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 available for engineered wood)	This product satisfies the low Formaldehyde requirements of this credit.