



David Trubridge

Environmental Product Declaration Kitset Pendant Light Fittings

Beau • Belle • Coral • Flax • Floral • Hinaki • Kina • Koura • Nikau • Snowflake • Sola • Ulu

Environmental Product Declaration (EPD) in accordance with ISO 14025 and EN 15804

EPD programme operator: The Australasian EPD® Programme Limited, www.epd-australasia.com

Manufacturer: David Trubridge Limited, www.davidtrubridge.com

EPD registration number S-P-00556 | Version 1 | Approved 13 April 2015 | Valid until 12 April 2020

Geographical scope: Global

General information:

An Environmental Product Declaration, or EPD, is a standardised and verified way of quantifying the environmental impacts of a product based on a consistent set of rules known as a PCR (Product Category Rules).

Environmental product declarations within the same product category from different programmes may not be comparable. EPDs of construction products may not be comparable if they do not comply with EN 15804.



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CEN standard EN 15804 served as the core PCR

PCR: PCR 2012:01 Construction products and Construction services,
Version 2.0, 2015-03-03

PCR review was conducted by: The Technical Committee of the International EPD® System.
Chair: Massimo Marino. Contact via info@environdec.com.

Independent verification of the declaration and data, according to ISO 14025:

☐ EPD process certification (Internal)
☒ EPD verification (External)

Third party verifier



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Accredited or approved by:

The Australasian EPD® Programme



Nikau pendant light pictured next to a nīkau palm

Who we are

David Trubridge is a designer and manufacturer of premium lighting and furniture products operating from Whakatu, Hastings, New Zealand. For us, good design means bringing cultural nourishment into people's lives without using up precious resources and energy. As a result, all of our products are designed to leave a delicate footprint and most are inspired directly by nature (illustrated by the Nikau light above).

Life Cycle Assessment (LCA) is a key way in which we quantify the footprint of our products. We also use LCA to influence key business decisions, such as our initiative to convert the vast majority of our products to flat-pack designs in order to reduce environmental impacts from packaging and distribution.

Our values

- In all management, design and manufacturing operations to consider and minimise our impact on the environment, people and future generations, leaving a delicate footprint at all times.
- To be absolutely open and honest about our environmental performance.
- Our mission is to create and pass on culture, layering ideas and emotions onto physical objects.
- Everything that we produce is made to the highest possible standards of craftsmanship and materials, designed to last a maximum lifespan with no regard to ephemeral fashion, and to be finally easily recycled or safely disposed of.
- To act ethically, and with respect and integrity, in all dealings with people.
- To promote a culture of direct personal openness, honesty and integrity, which is never deflected or subverted by spin, artifice or deceit.
- To make sure everyone in the company maintains a good balance between their work and their life; that they are happy, sufficiently rewarded and fulfilled in their work; that they can take time off whenever they wish as long as deadline commitments are kept; that there is a sense of community support between everyone in the team.
- To never stand still, always re-evaluating and reassessing goals and achievements whether they be design, environmental or personal.
- To always help each other maintain the highest standards of design and making.
- The company's cultural, artistic, social and environmental roles are all more important than increasing profit.
- To seek to promote our values, particularly environmental concerns, at all times, in personal interchanges and through exhibitions, lectures and written information.
- To aim to be a role model for other businesses to follow.

Products covered by this EPD

This EPD covers permanently wired David Trubridge indoor pendant lights manufactured from bamboo plywood. It includes all size variants and surface finishes for the twelve product families shown below.

Style (sizes)				
	Belle (2 sizes)	Coral (6 sizes)	Floral (6 sizes)	Sola (3 sizes)
				
	Hinaki (3 sizes)	Koura (6 sizes)	Nikau* (2 sizes)	Ulu** (2 sizes)
Finish				
	Beau (2 sizes)	Flax (2 sizes)	Kina (5 sizes)	Snowflake (3 sizes)
				
	Natural	Caramel	Black stain	Paint (1 side)
				
				Paint (2 sides)

* Nikau pictured at half height. ** Ulu pictured at full height. Both are available at half or full height.

CPC code: There is no CPC code that unambiguously applies to wooden pendant light fittings and, as such, no CPC code is listed on this EPD.

Product group: All pendant lights are supplied with an electrical cable, but without a wall plug. They are designed for permanent installation by a qualified electrician. Once installed, they provide lighting – a basic requirement for any building. As such, they meet the two core criteria defined in PCR 2012:01 (permanence + contributing to the basic requirements of construction works) and can be considered as a construction product rather than a non-permanent product (e.g. furniture).

Products declared: This EPD declares results separately for stained and painted products as the surface finishes are environmentally relevant. Painted products are available either in single-sided colour, single-sided white or double-sided white. The caramel finish is not a surface coating, but rather the result of carbonisation through thermal treatment of the bamboo plywood by the plywood supplier.

Declared unit

The declared unit is 1 piece of light fitting / fixture / luminaire as specified in the table below. All product masses below include packaging. The mass of packaging is listed separately in the rightmost column. The biogenic carbon stored within the product and packaging is also declared in the table.

This is a cradle-to-gate EPD and excludes use of the light. As all products can be fitted with any type of lightbulb / lamp (incandescent, LED, CFL, etc.), the bulb itself is not included within the declared unit.

Style & size	Dimensions mm	Stored carbon kg CO ₂ e	Mass (kg)					Of which is packaging
			Natural & caramel	Stain, black	Colour, 1 side	White, 1 side	White, 2 sides	
Beau Small	600 dia x 280 h	0.80	1.06	1.09	1.29	1.38	1.70	0.28
Beau Large	750 dia x 360 h	1.38	1.65	1.69	1.93	2.04	2.44	0.40
Belle Small	380 dia x 330 h	0.46	0.78	0.80	0.91	0.96	1.15	0.28
Belle Large	500 dia x 430 h	0.82	1.19	1.22	1.35	1.42	1.65	0.40
Coral 400	400 dia	0.31	0.69	0.70	0.76	0.79	0.89	0.33
Coral 600	600 dia	1.00	1.37	1.39	1.48	1.52	1.66	0.51
Coral 800	800 dia	1.83	2.15	2.19	2.41	2.52	2.88	0.70
Coral 1000	1000 dia	2.60	2.60	2.65	2.89	3.01	3.41	0.56
Coral 1200	1200 dia	9.96	7.16	7.24	7.58	7.76	8.36	3.56
Coral 1600	1600 dia	22.66	16.31	16.44	17.19	17.55	18.80	7.35
Flax 800	800 dia x 220 h	1.63	2.24	2.28	2.39	2.46	2.69	0.90
Flax 1500	1500 dia x 325 h	21.20	14.95	15.11	15.59	15.85	16.74	7.76
Floral 400	400 dia	0.30	0.69	0.70	0.76	0.78	0.88	0.33
Floral 600	600 dia	1.04	1.40	1.43	1.51	1.55	1.70	0.51
Floral 800	800 dia	1.79	2.13	2.17	2.33	2.41	2.68	0.70
Floral 1000	1000 dia	2.74	2.69	2.75	3.00	3.13	3.56	0.56
Floral 1200	1200 dia	10.02	7.21	7.29	7.63	7.81	8.42	3.56
Floral 1600	1600 dia	22.86	16.43	16.57	17.32	17.70	18.96	7.35
Hinaki 500	500 h x 170 dia	0.22	0.93	0.94	0.98	1.00	1.06	0.65
Hinaki 900	900 h x 320 dia	0.84	1.47	1.48	1.54	1.58	1.69	0.73
Hinaki 1400	1400 h x 500 dia	12.16	8.81	8.86	9.07	9.18	9.54	5.21
Kina 440	440 dia x 200 h	0.36	1.05	1.06	1.12	1.15	1.25	0.65
Kina 600	600 dia x 280 h	1.05	1.62	1.64	1.71	1.75	1.88	0.72
Kina 800	800 dia x 370 h	1.87	2.40	2.44	2.57	2.65	2.89	0.88
Kina 1000	1000 dia x 420 h	2.90	3.43	3.48	3.76	3.89	4.36	1.17
Kina 1400	1400 dia x 650 h	22.72	16.41	16.53	17.22	17.55	18.70	7.76
Koura 500	500 h x 300 dia	0.33	1.03	1.03	1.09	1.12	1.22	0.65
Koura 750	750 h x 420 dia	1.15	1.92	1.94	2.02	2.06	2.20	0.95
Koura 1000	1000 h x 500 dia	2.16	2.69	2.73	2.84	2.90	3.10	0.99
Koura 1600	1600 h x 950 dia	21.63	15.30	15.39	15.96	16.23	17.17	8.87
Koura 2000	2000 h x 1100 dia	29.23	20.52	20.65	21.23	21.52	22.52	11.25
Koura 2400	2400 h x 1400 dia	41.55	28.78	28.95	29.68	30.06	31.34	16.53
Nikau Half	405 dia x 820 h	1.01	1.82	1.84	1.94	1.99	2.15	0.99
Nikau Full	405 dia x 1615 h	1.85	2.45	2.48	2.61	2.67	2.89	0.99
Snowflake 800	800 dia x 400 h	2.26	2.82	2.86	2.99	3.06	3.31	0.96
Snowflake 1000	1000 dia x 500 h	3.68	4.11	4.17	4.38	4.50	4.89	1.25
Snowflake 1600	1600 dia x 700 h	26.45	20.64	20.78	21.34	21.63	22.62	10.92
Sola 800	800 dia	2.03	2.42	2.46	2.61	2.69	2.97	0.69
Sola 1000	1000 dia	3.19	3.10	3.17	3.41	3.54	3.98	0.55
Sola 1350	1350 dia	15.19	11.23	11.34	11.81	12.06	12.89	4.06
Ulu Half	400 h x 300 dia	1.06	1.73	1.74	1.79	1.82	1.91	0.84
Ulu Full	650 h x 385 dia	1.49	2.04	2.06	2.14	2.18	2.33	0.84

Material composition

Product	Product composition (g)								Coated products (g)				Packaging & accessories (g)								Total (g)					
	Plywood, bamboo	Cable, copper + PVC	Polyamide 6.6	Polyamide 6.6, glass filled	PET, glass filled	Steel, carbon	Steel, stainless	Aluminium	Total	Stain, black	Paint, colour (1 side)	Paint, white (1 side)	Paint, white (2 sides)	Cardboard	Plywood, softwood	Paper	LDPE	Silica gel (silicon dioxide)	Rubber, natural	Steel, carbon	Total	Natural and caramel	Stain, black	Painted, colour (1 side)	Painted, white (1 side)	Painted, white (2 sides)
Beau Small	640	108	13	5	17	2	0	0	784	28	228	319	638	241	0	15	2	12	5	0	275	1059	1088	1288	1378	1697
Beau Large	1106	108	13	5	17	2	0	0	1250	47	283	395	791	363	0	15	2	12	5	0	397	1647	1694	1930	2042	2438
Belle Small	361	108	13	5	17	2	0	0	505	17	131	183	367	241	0	15	2	12	5	0	275	780	797	911	963	1147
Belle Large	648	108	13	5	17	2	0	0	792	28	166	231	463	363	0	15	2	12	5	0	397	1189	1217	1355	1420	1652
Coral 400	218	107	22	3	10	1	0	0	360	9	72	100	200	271	0	35	2	12	6	0	326	686	695	758	786	886
Coral 600	697	108	32	5	17	2	0	0	860	20	101	144	288	460	0	34	2	12	6	0	514	1374	1394	1475	1518	1662
Coral 800	1296	108	32	5	17	2	0	0	1459	35	255	362	724	643	0	34	2	12	5	0	696	2155	2190	2410	2517	2879
Coral 1000	1880	108	32	5	17	2	0	0	2043	55	286	406	813	502	0	34	2	12	7	0	557	2600	2655	2887	3006	3413
Coral 1200	3155	284	32	5	17	33	74	0	3598	78	422	598	1196	0	3455	25	6	12	7	56	3561	7159	7238	7581	7757	8355
Coral 1600	8469	284	7	5	17	54	81	39	8955	135	877	1245	2489	0	7094	25	6	12	7	209	7353	16308	16443	17185	17552	18797
Flax 800	1135	108	73	5	17	2	0	0	1339	44	158	225	449	839	0	34	5	12	7	0	897	2236	2281	2395	2461	2686
Flax 1500	6741	284	134	5	17	16	0	0	7196	160	630	894	1789	0	7628	25	7	12	7	80	7759	14955	15115	15585	15849	16744
Floral 400	219	107	22	3	10	1	0	0	361	10	69	97	193	271	0	35	2	12	6	0	326	687	696	756	783	880
Floral 600	723	108	32	5	17	2	0	0	886	28	107	152	303	460	0	34	2	12	6	0	514	1400	1428	1507	1552	1703
Floral 800	1275	108	32	5	17	2	0	0	1438	36	192	273	546	643	0	34	2	12	5	0	696	2134	2170	2327	2407	2680
Floral 1000	1974	108	32	5	17	2	0	0	2136	56	305	433	866	502	0	34	2	12	7	0	557	2694	2749	2999	3127	3560
Floral 1200	3201	284	32	5	17	33	74	0	3645	79	428	607	1214	0	3455	25	6	12	7	56	3561	7206	7285	7634	7813	8420
Floral 1600	8667	284	7	5	17	54	7	39	9079	142	890	1263	2526	0	7094	25	6	12	7	209	7353	16432	16574	17322	17695	18958
Hinaki 500	140	107	17	3	10	1	1	0	280	11	48	67	134	606	0	24	2	12	5	0	649	928	939	976	995	1062
Hinaki 900	577	108	30	5	17	2	1	0	739	16	78	110	220	678	0	28	4	12	5	0	727	1466	1482	1544	1576	1686
Hinaki 1400	2999	284	72	5	17	2	222	0	3601	47	255	361	723	0	5076	25	6	12	7	87	5213	8814	8861	9068	9175	9536
Kina 440	254	107	28	3	10	1	1	0	404	10	71	98	197	606	0	24	2	12	5	0	649	1052	1063	1123	1151	1249

Product	Product composition (g)								Coated products (g)				Packaging & accessories (g)								Total (g)												
	Plywood, bamboo		Cable, copper + PVC		Polyamide 6.6		Polyamide 6.6, glass filled		PET, glass filled	Steel, carbon	Steel, stainless	Aluminium	Total	Stain, black	Paint, colour (1 side)		Paint, white (1 side)	Paint, white (2 sides)	Cardboard	Plywood, softwood	Paper	LDPE	Silica gel (silicon dioxide)		Rubber, natural	Steel, carbon	Total	Natural and caramel		Stain, black	Painted, colour (1 side)		Painted, white (1 side)
Kina 600	724	108	53	5	17	2	1	0	909	19	90	128	256	663	0	34	2	12	5	0	716	1625	1644	1715	1752	1880							
Kina 800	1312	108	77	5	17	2	0	0	1521	34	170	241	483	839	0	24	2	12	7	0	884	2404	2438	2574	2646	2887							
Kina 1000	2051	108	77	5	17	2	0	0	2259	52	326	463	926	1125	0	24	4	12	5	0	1170	3429	3482	3756	3892	4355							
Kina 1400	7848	284	147	5	17	46	296	0	8642	120	808	1147	2294	0	7628	25	6	12	7	87	7765	16407	16527	17215	17554	18701							
Koura 500	228	107	23	3	10	1	1	0	373	9	69	96	191	606	0	28	2	12	5	0	653	1026	1035	1094	1121	1217							
Koura 750	791	108	47	5	17	2	0	0	969	21	99	141	282	904	0	28	2	12	5	0	951	1920	1941	2020	2061	2202							
Koura 1000	1509	108	66	5	17	2	0	0	1706	39	144	204	409	930	0	34	4	12	7	0	987	2693	2732	2837	2897	3101							
Koura 1600	5739	284	122	5	17	35	222	0	6423	92	659	935	1869	0	8717	25	6	12	7	107	8874	15297	15389	15956	16232	17166							
Koura 2000	8588	284	122	5	17	35	222	0	9271	130	706	1001	2002	0	11080	25	6	12	7	119	11249	20521	20650	21226	21521	22522							
Koura 2400	11541	284	146	5	17	35	222	0	12249	178	902	1280	2559	0	16322	25	6	12	7	154	16526	28776	28954	29678	30055	31335							
Nikau Half	679	108	23	5	17	2	0	0	833	16	116	164	329	939	0	34	2	12	5	0	992	1825	1841	1941	1989	2154							
Nikau Full	1286	108	40	5	17	2	0	0	1457	31	156	222	444	939	0	34	2	12	5	0	992	2449	2481	2606	2671	2893							
Snowflake 800	1553	108	87	5	17	16	74	0	1859	36	171	243	486	839	0	45	52	12	13	0	961	2820	2856	2991	3063	3306							
Snowflake 1000	2536	108	100	5	17	17	74	0	2857	57	276	391	782	1125	0	50	52	12	13	0	1252	4109	4166	4385	4500	4891							
Snowflake 1600	8942	284	9	5	17	98	96	270	9720	141	696	987	1974	1015	9030	25	106	12	13	723	10924	20644	20785	21339	21631	22617							
Sola 800	1431	108	74	5	17	16	74	0	1725	40	194	275	549	647	0	26	4	12	5	0	694	2419	2459	2612	2694	2968							
Sola 1000	2259	108	74	5	17	16	74	0	2552	65	308	437	874	502	0	26	4	12	5	0	549	3102	3167	3410	3539	3976							
Sola 1350	6680	284	93	5	17	16	74	0	7169	115	585	831	1661	0	3951	25	6	12	5	60	4059	11227	11343	11813	12058	12888							
Ulu Half	718	108	40	5	17	2	0	0	889	15	65	92	183	795	0	24	2	12	5	0	838	1727	1742	1792	1819	1910							
Ulu Full	1026	108	40	5	17	2	0	0	1197	22	105	149	297	795	0	24	2	12	5	0	838	2035	2058	2140	2184	2333							

Note: The composition of bamboo plywood is 58-78% bamboo, 20-40% polyvinyl acetate (PVA) and 2% emulsion polymer isocyanate (EPI). The electrical cable is approximately 28% copper and 72% flexible polyvinyl chloride (PVC).

System boundary

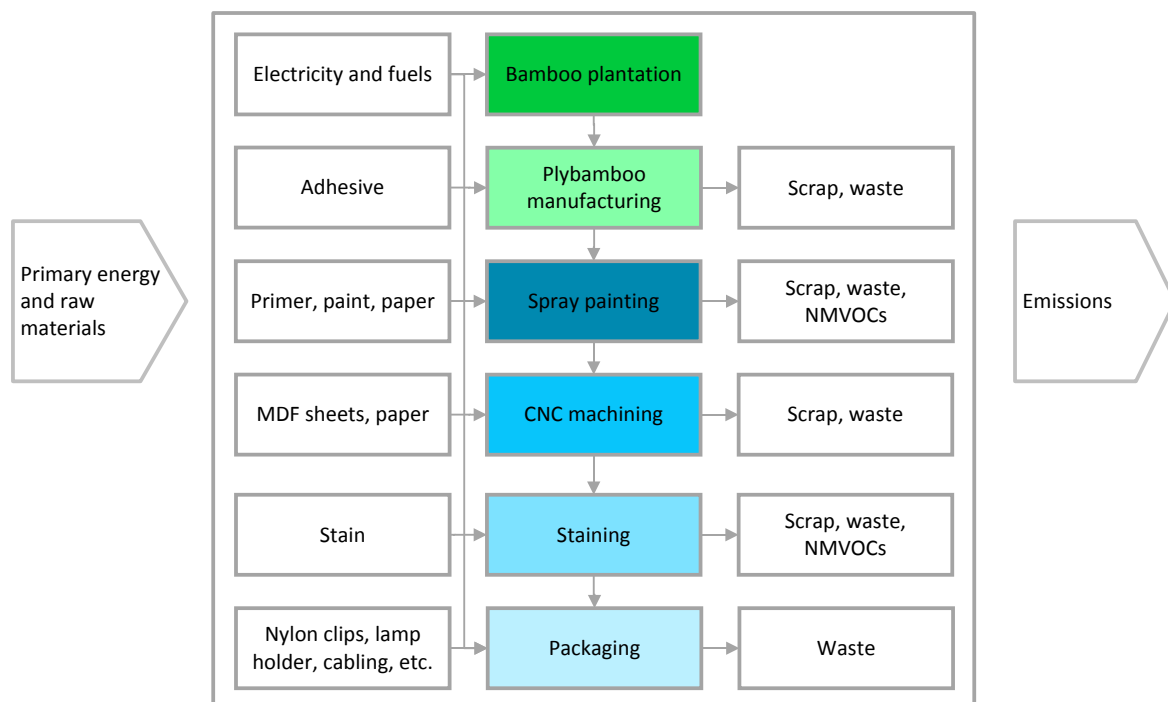
This EPD has a cradle-to-gate scope as shown in the table below. It includes the environmental impacts associated with raw materials, material transport, manufacture, painting (if applicable), packaging and storage. Other life cycle stages are dependent on particular scenarios and best modelled at the building level. To assist the reader, a separate annex with additional data on distribution, installation and end-of-life is available on the David Trubridge website (see “Additional environmental information” on page 30).

Product stage			Construction process stage		Use stage							End of life stage				Benefits and loads beyond the system boundary
Raw material supply	Transport of raw materials	Manufacturing	Transport to customer	Installation	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	Deconstruction/ demolition	Transport to waste processing	Waste processing	Disposal	Reuse-Recovery-Recycling-potential
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
X	X	X	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

X = included in the EPD; ND = not declared (such a declaration shall not be regarded as an indicator result of zero)

Manufacturing process

Light fittings are manufactured from bamboo plywood sourced from China. The plywood has either a natural or caramel finish (achieved using thermal treatment). It is delivered by sea and truck to our factory in Whakatu, Hastings, New Zealand. It is painted offsite in Hastings (painted products only), cut to shape onsite using a CNC router and stained onsite (stained products only). The cut plywood shapes are packed into a kitset box along with additional fittings (e.g. Nylon clips, lamp holder and cabling) ready for shipping. All wood manufacturing scrap is disposed of within New Zealand using incineration with energy recovery.



Life cycle inventory (LCI) data

Primary data were used for all manufacturing operations up to the factory gate, including cutting, drilling, staining, painting, packing and storage. As David Trubridge manufactures low volumes of hundreds of different products – some of which are made to order – there was no straightforward way to allocate the annual inputs and outputs from production to a given product type. Instead, physical measurements taken in the period December 2014 to February 2015 were used to calculate inputs/outputs from the bottom-up. This approach is believed to be more accurate than, say, allocation by mass, volume or economic value.

Data for all energy inputs, transport processes and raw materials (except bamboo plywood) are from GaBi Databases 2014 (thinkstep 2014). Most datasets have a reference year between 2011 and 2013 and all fall within the 10 year limit allowable for generic data under EN 15804.

Data for bamboo plywood was sourced from a report by Vogtländer and van der Lugt (2014). The authors collected data from a Chinese manufacturer in 2013. The resin type and resin loading were adapted for this EPD based on information from David Trubridge's supplier to account for use of polyvinyl acetate (PVA) and emulsion polymer isocyanate (EPI) instead of melamine formaldehyde and EPI.

Key assumptions

Upstream data: With the exception of data for energy and bamboo plywood (which correctly reflect New Zealand and Chinese conditions respectively), most upstream (supply chain) data used were European due to a lack of consistent LCI data for New Zealand at the time this study was conducted.

Electricity: David Trubridge purchases electricity from a supplier that has 100% renewable generation. However, as there is currently no system within New Zealand to ensure that the benefits of renewable energy are not double-counted at a national level, all New Zealand electricity is assumed to be the 2011 national average with a Global Warming Potential of 177 g CO₂e/kWh, made up of 76% renewable (56.44% hydro, 13.77% geothermal, 4.39% wind, 0.85% biomass, 0.52% biogas) and 24% fossil fuels (19.16% natural gas, 3.57% hard coal, 1.27% coal gases, 0.05% lignite) (thinkstep 2014). Chinese electricity was also assumed to be the 2011 national average with a Global Warming Potential of 970 g CO₂e/kWh, made up of 81% fossil fuels (78.41% hard coal, 1.78% natural gas, 0.55% coal gases, 0.17% heavy fuel oil), 17% renewable (14.82% hydro, 1.49% wind, 0.67% biomass, 0.05% photovoltaic), 1.83% nuclear and 0.23% waste (thinkstep 2014).

Mass of bamboo plywood shapes (uncoated): Bamboo plywood is bought and sold by sheet thickness and surface area rather than by mass. As such, neither David Trubridge nor our supplier have long-term mass measurements from which to calculate an annual average. As a conservative approach, the mass of 5 sheets for each thickness grade were measured in February 2015 – finding $\pm 0.7\%$ and $\pm 4.1\%$ variation per grade – and the upper limit (4.1%) was applied as a weighting factor to all mass measurements. The total mass of bamboo plywood included in each product was then based on either:

1. *For stocked products:* The average mass of bamboo plywood shapes in finished products weighed between December 2014 and February 2015, increased by a weighting factor of 4.1%; or
2. *For products made to order (common for larger light fittings):* The mass calculated from the known surface area of bamboo plywood in the finished product (given by David Trubridge's CAD software) multiplied by the area density of an average sheet and a weighting factor 4.1%.

Mass of bamboo plywood shapes (coated): The total mass of all stained and painted products was calculated by starting from the uncoated mass above, adding the mass of paint, and then subtracting the mass of water in the paint (which evaporates), paint wasted and any VOC emissions.

Mass of packaging: Products are supplied packaged in either a cardboard box (smaller light fittings) or in a plywood box (larger light fittings). Smaller light fittings are inserted into an additional outer box (made of a thinner cardboard than the main packaging) if sent locally by courier and two boxes if sent longer distance by truck/plane/ship. The double-boxed option for long distance transport is assumed in this EPD.

Cut off criteria

Environmental impacts relating to personnel, infrastructure, and production equipment not directly consumed in the process are excluded from the system boundary as per the PCR (IEPDS 2015, §6.5.4). All other reported data were incorporated and modelled using the best available life cycle inventory data.

Allocation

Upstream data: For refinery products, allocation is done by mass and net calorific value. Inventories for electricity and thermal energy generation include allocation by economic value for some by-products (e.g. gypsum, boiler ash and fly ash). Allocation by energy is applied for co-generation of heat and power. For materials and chemicals, the allocation rule most suitable for the product is applied (see thinkstep 2014).

Factory seconds following staining: Approximately 25% of stained bamboo plywood pieces do not absorb the black pigment evenly. Those that are particularly uneven are sent to incineration with energy recovery. Those that are only slightly uneven are sold as factory seconds where the retail price is discounted by 30%. These seconds are treated as a co-product to which economic allocation is applied.

Energy for stockroom, workshop and warehouse: There is no direct relationship between mass, volume or price and the electricity required for the stockroom (incoming goods), workshop or warehouse (outgoing goods). This occurs for a number of reasons, e.g. because larger light fittings are typically made to order and therefore not stored, whereas smaller light fittings are made in batches and held as stock. As such, each product has been allocated an equal share of this energy.

Waste wood and cardboard: Wood and cardboard manufacturing waste are sent to a biomass incinerator with energy recovery. Both are considered to reach their end-of-waste state at the incinerator site and cross the boundary to the next system to become materials for energy recovery (MER). Transport is included within the system boundary but combustion is not. Instead, the sequestered carbon crosses the boundary as an emission to the next product system in module A3. That is, all embodied carbon is assumed to be released as CO₂ in module A3, even though in practice this only occurs after incineration. This allows the incinerator to include embodied carbon in their own LCAs and to achieve a net carbon balance as per EN 16485. As wood has no value at the product system boundary, there is no allocation to co-products.

Waste paper: Robust data on paper and cardboard recycling were not available. As such, a cut-off recycling approach has been applied. That is, inputs of waste paper are considered to be burden-free and no credits have been applied for recycling.

Environmental indicators derived from life cycle assessment

Acronym	Life cycle impact assessment indicators	Unit
GWPIB	Global warming potential, including biogenic carbon	kg CO ₂ -Eq.
GWPEB	Global warming potential, excluding biogenic carbon	kg CO ₂ -Eq.
ODP	Depletion potential of the stratospheric ozone layer	kg CFC ₁₁ -Eq.
AP	Acidification potential of soil and water	kg SO ₂ -Eq.
EP	Eutrophication potential	kg (PO ₄) ³⁻ -Eq.
POCP	Formation potential of tropospheric ozone	kg Ethene Eq.
ADPE	Abiotic depletion potential of non-fossil resources	kg Sb Eq.
ADPF	Abiotic depletion potential of fossil resources	MJ, net calorific value

Acronym	Resource use indicators	Unit
PERE	Renewable primary energy as energy carrier	MJ, net calorific value
PERM	Renewable primary energy resources as material utilisation	MJ, net calorific value
PERT	Total use of renewable primary energy resources	MJ, net calorific value
PENRE	Non-renewable primary energy as energy carrier	MJ, net calorific value
PENRM	Non-renewable primary energy as material utilisation	MJ, net calorific value
PENRT	Total use of non-renewable primary energy resources	MJ, net calorific value
SM	Use of secondary material	kg
RSF	Use of renewable secondary fuels	MJ, net calorific value
NRSF	Use of non-renewable secondary fuels	MJ, net calorific value
FW	Use of net fresh water	kg

Acronym	Waste categories and other outputs	Unit
HWD	Hazardous waste disposed	kg
NHWD	Non-hazardous waste disposed	kg
RWD	Radioactive waste disposed	kg
CRU	Components for re-use	kg
MFR	Materials for recycling	kg
MER	Materials for energy recovery	kg
EEE	Exported electrical energy	MJ, net calorific value
EET	Exported thermal energy (per energy carrier)	MJ, net calorific value

Note:

(1) GWPIB includes emissions and removals arising from both fossil and biogenic carbon sources and sinks, including biogenic carbon stored in the finished product. GWPIB is the indicator typically declared in EPDs produced according to EN 15804 (see EN 16485, for example). Stored biogenic carbon is declared separately in the “Declared unit” section. GWPEB includes carbon emissions from fossil sources only.

(2) All indicator results are declared using scientific notation where, for example, 1.18E+02 is equivalent to $1.18 \times 10^2 = 1.18 \times 100 = 118$.

(3) Life cycle impact assessment results are relative expressions and do not predict impacts on category endpoints, the exceeding of thresholds, safety margins or risks.

LCA results for products with a natural finish [modules A1-A3]

Environmental impact	Beau Small	Beau Large	Belle Small	Belle Large	Coral 400	Coral 600	Coral 800	Coral 1000	Coral 1200	Coral 1600	Flax 800	Flax 1500	Floral 400	Floral 600
GWPIB [kg CO ₂ -eq.]	2.76E+00	3.80E+00	2.44E+00	3.06E+00	2.47E+00	4.03E+00	4.59E+00	7.16E+00	7.22E+00	2.74E+01	7.44E+00	1.11E+01	2.52E+00	4.08E+00
GWPEB [kg CO ₂ -eq.]	3.63E+00	5.32E+00	2.95E+00	3.97E+00	2.83E+00	5.12E+00	6.58E+00	1.00E+01	1.75E+01	5.10E+01	9.18E+00	3.27E+01	2.87E+00	5.21E+00
ODP [kg CFC11-eq.]	4.02E-11	5.39E-11	3.33E-11	3.96E-11	2.98E-11	4.30E-11	5.20E-11	8.70E-11	2.13E-10	8.66E-10	6.42E-11	3.20E-10	3.02E-11	4.38E-11
AP [kg SO ₂ -eq.]	3.27E-02	4.92E-02	2.55E-02	3.50E-02	2.42E-02	4.72E-02	6.21E-02	1.01E-01	1.82E-01	5.32E-01	8.58E-02	3.35E-01	2.46E-02	4.84E-02
EP [kg PO ₄ ³⁻ -eq.]	3.49E-03	5.62E-03	2.63E-03	3.87E-03	2.38E-03	5.38E-03	7.22E-03	1.21E-02	2.13E-02	6.53E-02	9.91E-03	4.07E-02	2.42E-03	5.53E-03
POCP [kg C ₂ H ₄ -eq.]	2.23E-03	3.54E-03	1.67E-03	2.41E-03	1.46E-03	3.11E-03	4.17E-03	7.10E-03	1.27E-02	3.87E-02	5.57E-03	2.41E-02	1.49E-03	3.19E-03
ADPE [kg Sb eq.]	1.27E-04	1.28E-04	1.27E-04	1.27E-04	1.25E-04	1.27E-04	1.28E-04	1.29E-04	4.89E-04	5.40E-04	1.28E-04	3.54E-04	1.25E-04	1.27E-04
ADPF [MJ]	5.53E+01	8.21E+01	4.44E+01	6.01E+01	4.12E+01	7.37E+01	9.44E+01	1.47E+02	2.52E+02	7.65E+02	1.32E+02	4.97E+02	4.20E+01	7.48E+01
Resource use	Beau Small	Beau Large	Belle Small	Belle Large	Coral 400	Coral 600	Coral 800	Coral 1000	Coral 1200	Coral 1600	Flax 800	Flax 1500	Floral 400	Floral 600
PERE [MJ]	4.68E+01	7.27E+01	3.51E+01	4.91E+01	3.52E+01	7.02E+01	9.33E+01	1.66E+02	3.07E+02	9.55E+02	1.35E+02	5.99E+02	3.59E+01	7.24E+01
PERM [MJ]	1.19E+01	1.96E+01	8.55E+00	1.40E+01	7.88E+00	1.76E+01	2.87E+01	3.39E+01	9.94E+01	2.25E+02	2.98E+01	2.11E+02	7.87E+00	1.80E+01
PERT [MJ]	5.87E+01	9.23E+01	4.36E+01	6.31E+01	4.31E+01	8.78E+01	1.22E+02	2.00E+02	4.06E+02	1.18E+03	1.65E+02	8.10E+02	4.38E+01	9.04E+01
PENRE [MJ]	5.10E+01	7.57E+01	4.13E+01	5.57E+01	3.91E+01	7.02E+01	8.93E+01	1.40E+02	2.41E+02	7.33E+02	1.27E+02	4.71E+02	3.99E+01	7.13E+01
PENRM [MJ]	4.35E+00	6.42E+00	3.11E+00	4.36E+00	2.12E+00	3.46E+00	5.13E+00	7.29E+00	1.15E+01	3.18E+01	4.77E+00	2.61E+01	2.15E+00	3.48E+00
PENRT [MJ]	5.53E+01	8.21E+01	4.44E+01	6.01E+01	4.12E+01	7.37E+01	9.44E+01	1.47E+02	2.52E+02	7.65E+02	1.32E+02	4.97E+02	4.20E+01	7.48E+01
SM [kg]	2.56E-01	3.78E-01	2.56E-01	3.78E-01	3.06E-01	4.94E-01	6.77E-01	5.36E-01	2.50E-02	2.50E-02	8.73E-01	2.50E-02	3.06E-01	4.94E-01
RSF [MJ]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NRSF [MJ]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FW [kg]	7.50E+03	8.57E+03	6.55E+03	7.20E+03	7.69E+03	8.91E+03	1.10E+04	1.37E+04	2.26E+04	5.92E+04	1.66E+04	4.41E+04	7.78E+03	9.02E+03
Waste categories and output flows	Beau Small	Beau Large	Belle Small	Belle Large	Coral 400	Coral 600	Coral 800	Coral 1000	Coral 1200	Coral 1600	Flax 800	Flax 1500	Floral 400	Floral 600
HWD [kg]	4.75E-05	8.18E-05	3.34E-05	5.29E-05	2.97E-05	7.23E-05	1.05E-04	1.81E-04	3.44E-04	1.09E-03	1.31E-04	6.71E-04	3.02E-05	7.47E-05
NHWD [kg]	1.11E-01	1.41E-01	9.91E-02	1.17E-01	9.47E-02	1.39E-01	1.65E-01	2.32E-01	9.01E-01	1.76E+00	2.06E-01	7.62E-01	9.53E-02	1.41E-01
RWD [kg]	3.77E-04	5.66E-04	2.96E-04	3.97E-04	2.59E-04	4.72E-04	6.02E-04	1.02E-03	3.80E-03	1.03E-02	8.04E-04	7.36E-03	2.65E-04	4.80E-04
CRU [kg]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MFR [kg]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MER [kg]	7.51E-01	1.42E+00	5.67E-01	9.24E-01	5.33E-01	1.40E+00	1.76E+00	3.67E+00	5.93E+00	2.27E+01	2.76E+00	1.14E+01	5.53E-01	1.44E+00
EEE [MJ]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EET [MJ]	-	-	-	-	-	-	-	-	-	-	-	-	-	-

LCA results for products with a natural finish [modules A1-A3]

Environmental impact	Floral 800	Floral 1000	Floral 1200	Floral 1600	Hinaki 500	Hinaki 900	Hinaki 1400	Kina 440	Kina 600	Kina 800	Kina 1000	Kina 1400	Koura 500	Koura 750
GWPIB [kg CO ₂ -eq.]	5.51E+00	7.31E+00	7.18E+00	2.64E+01	2.49E+00	4.11E+00	9.06E+00	2.93E+00	5.09E+00	7.11E+00	8.97E+00	2.97E+01	2.95E+00	5.20E+00
GWPEB [kg CO ₂ -eq.]	7.47E+00	1.03E+01	1.76E+01	5.01E+01	2.73E+00	5.02E+00	2.14E+01	3.33E+00	6.20E+00	9.10E+00	1.21E+01	5.32E+01	3.31E+00	6.44E+00
ODP [kg CFC11-eq.]	5.80E-11	8.94E-11	2.14E-10	8.41E-10	1.68E-11	3.43E-11	2.85E-10	2.28E-11	4.29E-11	6.26E-11	7.84E-11	5.69E-10	2.19E-11	3.77E-11
AP [kg SO ₂ -eq.]	7.19E-02	1.05E-01	1.83E-01	5.25E-01	2.04E-02	4.39E-02	2.05E-01	2.59E-02	5.52E-02	8.45E-02	1.15E-01	5.42E-01	2.60E-02	5.65E-02
EP [kg PO ₄ ³⁻ -eq.]	8.46E-03	1.26E-02	2.13E-02	6.50E-02	2.04E-03	4.92E-03	2.27E-02	2.56E-03	5.82E-03	9.38E-03	1.33E-02	6.32E-02	2.62E-03	6.40E-03
POCP [kg C ₂ H ₄ -eq.]	4.86E-03	7.35E-03	1.27E-02	3.85E-02	1.11E-03	2.75E-03	1.40E-02	1.45E-03	3.31E-03	5.32E-03	7.54E-03	3.78E-02	1.48E-03	3.52E-03
ADPE [kg Sb eq.]	1.28E-04	1.29E-04	4.89E-04	3.96E-04	1.27E-04	1.29E-04	7.84E-04	1.27E-04	1.30E-04	1.28E-04	1.29E-04	9.36E-04	1.27E-04	1.28E-04
ADPF [MJ]	1.08E+02	1.51E+02	2.53E+02	7.60E+02	3.78E+01	7.09E+01	3.09E+02	4.70E+01	8.76E+01	1.30E+02	1.72E+02	7.84E+02	4.68E+01	9.04E+01
Resource use	Floral 800	Floral 1000	Floral 1200	Floral 1600	Hinaki 500	Hinaki 900	Hinaki 1400	Kina 440	Kina 600	Kina 800	Kina 1000	Kina 1400	Koura 500	Koura 750
PERE [MJ]	1.12E+02	1.74E+02	3.07E+02	9.53E+02	2.23E+01	6.19E+01	3.27E+02	3.33E+01	8.87E+01	1.35E+02	1.81E+02	9.44E+02	3.30E+01	8.18E+01
PERM [MJ]	2.83E+01	3.54E+01	1.00E+02	2.27E+02	1.22E+01	1.95E+01	1.22E+02	1.36E+01	2.13E+01	3.21E+01	4.67E+01	2.26E+02	1.34E+01	2.62E+01
PERT [MJ]	1.40E+02	2.09E+02	4.07E+02	1.18E+03	3.45E+01	8.14E+01	4.49E+02	4.69E+01	1.10E+02	1.67E+02	2.28E+02	1.17E+03	4.64E+01	1.08E+02
PENRE [MJ]	1.03E+02	1.44E+02	2.41E+02	7.27E+02	3.60E+01	6.78E+01	2.96E+02	4.47E+01	8.41E+01	1.25E+02	1.65E+02	7.55E+02	4.47E+01	8.68E+01
PENRM [MJ]	5.19E+00	7.37E+00	1.16E+01	3.32E+01	1.78E+00	3.15E+00	1.30E+01	2.26E+00	3.47E+00	5.14E+00	7.40E+00	2.93E+01	2.15E+00	3.59E+00
PENRT [MJ]	1.08E+02	1.51E+02	2.53E+02	7.60E+02	3.78E+01	7.09E+01	3.09E+02	4.70E+01	8.76E+01	1.30E+02	1.72E+02	7.84E+02	4.68E+01	9.04E+01
SM [kg]	6.77E-01	5.36E-01	2.50E-02	2.50E-02	6.30E-01	7.06E-01	2.50E-02	6.30E-01	6.97E-01	8.63E-01	1.15E+00	2.50E-02	6.34E-01	9.32E-01
RSF [MJ]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NRSF [MJ]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FW [kg]	1.15E+04	1.45E+04	2.29E+04	5.81E+04	6.94E+03	9.83E+03	3.07E+04	9.23E+03	1.65E+04	2.05E+04	2.22E+04	7.23E+04	8.64E+03	1.28E+04
Waste categories and output flows	Floral 800	Floral 1000	Floral 1200	Floral 1600	Hinaki 500	Hinaki 900	Hinaki 1400	Kina 440	Kina 600	Kina 800	Kina 1000	Kina 1400	Koura 500	Koura 750
HWD [kg]	1.21E-04	1.88E-04	3.44E-04	1.08E-03	2.01E-05	6.16E-05	3.66E-04	2.83E-05	7.84E-05	1.24E-04	1.81E-04	1.01E-03	2.88E-05	8.08E-05
NHWD [kg]	1.83E-01	2.38E-01	9.01E-01	1.32E+00	9.89E-02	1.40E-01	1.79E+00	1.06E-01	1.53E-01	1.98E-01	2.56E-01	2.80E+00	1.07E-01	1.57E-01
RWD [kg]	6.93E-04	1.04E-03	3.80E-03	1.01E-02	1.78E-04	4.04E-04	5.30E-03	2.39E-04	4.92E-04	7.66E-04	1.04E-03	1.00E-02	2.37E-04	4.96E-04
CRU [kg]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MFR [kg]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MER [kg]	2.33E+00	3.78E+00	5.89E+00	2.27E+01	3.15E-01	1.17E+00	5.98E+00	4.20E-01	1.34E+00	2.26E+00	3.40E+00	2.03E+01	4.90E-01	1.51E+00
EEE [MJ]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EET [MJ]	-	-	-	-	-	-	-	-	-	-	-	-	-	-

LCA results for products with a natural finish [modules A1-A3]

Environmental impact	Koura 1000	Koura 1600	Koura 2000	Koura 2400	Nikau Half	Nikau Full	Snowflake 800	Snowflake 1000	Snowflake 1600	Sola 800	Sola 1000	Sola 1350	Ulu Half	Ulu Full
GWPIB [kg CO ₂ -eq.]	8.84E+00	1.42E+01	1.63E+01	1.96E+01	3.72E+00	7.06E+00	1.06E+01	1.41E+01	2.68E+01	9.20E+00	1.28E+01	2.35E+01	3.71E+00	4.57E+00
GWPEB [kg CO ₂ -eq.]	1.11E+01	3.63E+01	4.61E+01	6.19E+01	4.80E+00	9.07E+00	1.30E+01	1.80E+01	5.38E+01	1.14E+01	1.63E+01	3.92E+01	4.81E+00	6.14E+00
ODP [kg CFC11-eq.]	7.20E-11	4.23E-10	4.91E-10	6.31E-10	2.45E-11	5.83E-11	1.25E-10	1.54E-10	3.03E-09	1.12E-10	1.59E-10	3.89E-10	2.78E-11	3.80E-11
AP [kg SO ₂ -eq.]	1.09E-01	3.59E-01	4.65E-01	6.30E-01	3.96E-02	8.70E-02	1.22E-01	1.77E-01	4.88E-01	1.08E-01	1.66E-01	4.10E-01	4.02E-02	5.55E-02
EP [kg PO ₄ ³⁻ -eq.]	1.28E-02	4.11E-02	5.51E-02	7.61E-02	4.72E-03	1.03E-02	1.34E-02	2.00E-02	5.74E-02	1.20E-02	1.93E-02	4.89E-02	4.59E-03	6.31E-03
POCP [kg C ₂ H ₄ -eq.]	7.15E-03	2.47E-02	3.29E-02	4.49E-02	2.54E-03	5.73E-03	7.76E-03	1.14E-02	3.45E-02	7.10E-03	1.13E-02	2.93E-02	2.52E-03	3.52E-03
ADPE [kg Sb eq.]	1.29E-04	7.92E-04	7.96E-04	8.07E-04	1.27E-04	1.28E-04	2.73E-04	2.74E-04	6.66E-04	2.73E-04	2.74E-04	4.96E-04	1.27E-04	1.28E-04
ADPF [MJ]	1.59E+02	5.34E+02	6.83E+02	9.25E+02	6.67E+01	1.29E+02	1.82E+02	2.52E+02	7.72E+02	1.61E+02	2.33E+02	5.92E+02	6.69E+01	8.58E+01
Resource use	Koura 1000	Koura 1600	Koura 2000	Koura 2400	Nikau Half	Nikau Full	Snowflake 800	Snowflake 1000	Snowflake 1600	Sola 800	Sola 1000	Sola 1350	Ulu Half	Ulu Full
PERE [MJ]	1.71E+02	6.43E+02	8.09E+02	1.14E+03	4.89E+01	1.37E+02	1.86E+02	2.79E+02	8.11E+02	1.63E+02	2.73E+02	7.16E+02	4.90E+01	7.73E+01
PERM [MJ]	3.66E+01	2.16E+02	2.91E+02	4.14E+02	2.54E+01	3.36E+01	3.62E+01	5.48E+01	2.79E+02	3.06E+01	3.96E+01	1.51E+02	2.34E+01	2.77E+01
PERT [MJ]	2.08E+02	8.59E+02	1.10E+03	1.55E+03	7.43E+01	1.71E+02	2.22E+02	3.34E+02	1.09E+03	1.94E+02	3.13E+02	8.67E+02	7.24E+01	1.05E+02
PENRE [MJ]	1.53E+02	5.12E+02	6.51E+02	8.83E+02	6.35E+01	1.24E+02	1.74E+02	2.42E+02	7.34E+02	1.56E+02	2.25E+02	5.66E+02	6.37E+01	8.18E+01
PENRM [MJ]	5.61E+00	2.24E+01	3.19E+01	4.20E+01	3.23E+00	4.92E+00	7.56E+00	9.88E+00	3.77E+01	5.48E+00	7.66E+00	2.63E+01	3.24E+00	4.04E+00
PENRT [MJ]	1.59E+02	5.34E+02	6.83E+02	9.25E+02	6.67E+01	1.29E+02	1.82E+02	2.52E+02	7.72E+02	1.61E+02	2.33E+02	5.92E+02	6.69E+01	8.58E+01
SM [kg]	9.64E-01	2.50E-02	2.50E-02	2.50E-02	9.73E-01	9.73E-01	8.84E-01	1.18E+00	1.04E+00	6.73E-01	5.28E-01	2.50E-02	8.19E-01	8.19E-01
RSF [MJ]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NRSF [MJ]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FW [kg]	1.76E+04	5.95E+04	6.15E+04	8.00E+04	7.18E+03	1.44E+04	2.43E+04	3.21E+04	1.24E+05	1.85E+04	2.24E+04	5.03E+04	8.57E+03	1.17E+04
Waste categories and output flows	Koura 1000	Koura 1600	Koura 2000	Koura 2400	Nikau Half	Nikau Full	Snowflake 800	Snowflake 1000	Snowflake 1600	Sola 800	Sola 1000	Sola 1350	Ulu Half	Ulu Full
HWD [kg]	1.67E-04	7.12E-04	9.10E-04	1.29E-03	6.29E-05	1.44E-04	1.74E-04	2.67E-04	9.09E-04	1.65E-04	2.80E-04	7.67E-04	5.37E-05	8.02E-05
NHWD [kg]	2.48E-01	2.06E+00	2.27E+00	2.58E+00	1.33E-01	2.11E-01	6.86E-01	7.80E-01	2.90E+00	6.64E-01	7.63E-01	1.29E+00	1.32E-01	1.55E-01
RWD [kg]	9.68E-04	8.66E-03	1.09E-02	1.52E-02	3.48E-04	7.75E-04	1.32E-03	1.75E-03	1.68E-02	1.23E-03	1.80E-03	6.40E-03	3.60E-04	4.85E-04
CRU [kg]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MFR [kg]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MER [kg]	3.64E+00	1.21E+01	1.55E+01	2.25E+01	1.06E+00	3.00E+00	3.47E+00	5.38E+00	1.50E+01	3.39E+00	6.20E+00	1.59E+01	7.87E-01	1.28E+00
EEE [MJ]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EET [MJ]	-	-	-	-	-	-	-	-	-	-	-	-	-	-

LCA results for products with a carbonised (caramel) finish [modules A1-A3]

Environmental impact	Beau Small	Beau Large	Belle Small	Belle Large	Coral 400	Coral 600	Coral 800	Coral 1000	Coral 1200	Coral 1600	Flax 800	Flax 1500	Floral 400	Floral 600
GWPIB [kg CO ₂ -eq.]	2.84E+00	3.95E+00	2.50E+00	3.15E+00	2.52E+00	4.18E+00	4.79E+00	7.54E+00	7.85E+00	2.95E+01	7.73E+00	1.24E+01	2.56E+00	4.23E+00
GWPEB [kg CO ₂ -eq.]	3.72E+00	5.47E+00	3.00E+00	4.06E+00	2.87E+00	5.26E+00	6.79E+00	1.04E+01	1.82E+01	5.31E+01	9.48E+00	3.40E+01	2.92E+00	5.36E+00
ODP [kg CFC11-eq.]	4.02E-11	5.39E-11	3.33E-11	3.96E-11	2.98E-11	4.31E-11	5.20E-11	8.71E-11	2.14E-10	8.67E-10	6.43E-11	3.21E-10	3.02E-11	4.38E-11
AP [kg SO ₂ -eq.]	3.33E-02	5.02E-02	2.59E-02	3.56E-02	2.45E-02	4.82E-02	6.35E-02	1.04E-01	1.87E-01	5.47E-01	8.78E-02	3.44E-01	2.49E-02	4.94E-02
EP [kg PO ₄ ³⁻ -eq.]	3.56E-03	5.74E-03	2.67E-03	3.94E-03	2.41E-03	5.50E-03	7.39E-03	1.24E-02	2.18E-02	6.70E-02	1.01E-02	4.18E-02	2.46E-03	5.65E-03
POCP [kg C ₂ H ₄ -eq.]	2.28E-03	3.62E-03	1.70E-03	2.46E-03	1.48E-03	3.19E-03	4.29E-03	7.31E-03	1.30E-02	3.99E-02	5.73E-03	2.48E-02	1.51E-03	3.27E-03
ADPE [kg Sb eq.]	1.27E-04	1.28E-04	1.27E-04	1.27E-04	1.25E-04	1.27E-04	1.28E-04	1.29E-04	4.89E-04	5.40E-04	1.28E-04	3.54E-04	1.25E-04	1.27E-04
ADPF [MJ]	5.62E+01	8.37E+01	4.50E+01	6.11E+01	4.17E+01	7.52E+01	9.65E+01	1.51E+02	2.59E+02	7.87E+02	1.35E+02	5.10E+02	4.25E+01	7.64E+01
Resource use	Beau Small	Beau Large	Belle Small	Belle Large	Coral 400	Coral 600	Coral 800	Coral 1000	Coral 1200	Coral 1600	Flax 800	Flax 1500	Floral 400	Floral 600
PERE [MJ]	4.69E+01	7.29E+01	3.52E+01	4.92E+01	3.53E+01	7.04E+01	9.33E+01	1.66E+02	3.07E+02	9.55E+02	1.36E+02	6.00E+02	3.60E+01	7.26E+01
PERM [MJ]	1.19E+01	1.96E+01	8.55E+00	1.40E+01	7.88E+00	1.76E+01	2.87E+01	3.39E+01	9.94E+01	2.25E+02	2.98E+01	2.11E+02	7.87E+00	1.80E+01
PERT [MJ]	5.88E+01	9.25E+01	4.37E+01	6.32E+01	4.32E+01	8.80E+01	1.22E+02	2.00E+02	4.06E+02	1.18E+03	1.66E+02	8.11E+02	4.39E+01	9.06E+01
PENRE [MJ]	5.19E+01	7.73E+01	4.19E+01	5.67E+01	3.96E+01	7.17E+01	9.14E+01	1.44E+02	2.48E+02	7.55E+02	1.30E+02	4.84E+02	4.04E+01	7.29E+01
PENRM [MJ]	4.35E+00	6.42E+00	3.11E+00	4.36E+00	2.12E+00	3.46E+00	5.13E+00	7.29E+00	1.15E+01	3.18E+01	4.77E+00	2.61E+01	2.15E+00	3.48E+00
PENRT [MJ]	5.62E+01	8.37E+01	4.50E+01	6.11E+01	4.17E+01	7.52E+01	9.65E+01	1.51E+02	2.59E+02	7.87E+02	1.35E+02	5.10E+02	4.25E+01	7.64E+01
SM [kg]	2.56E-01	3.78E-01	2.56E-01	3.78E-01	3.06E-01	4.94E-01	6.77E-01	5.36E-01	2.50E-02	2.50E-02	8.73E-01	2.50E-02	3.06E-01	4.94E-01
RSF [MJ]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NRSF [MJ]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FW [kg]	7.54E+03	8.65E+03	6.58E+03	7.25E+03	7.71E+03	8.99E+03	1.11E+04	1.39E+04	2.29E+04	6.03E+04	1.68E+04	4.47E+04	7.80E+03	9.11E+03
Waste categories and output flows	Beau Small	Beau Large	Belle Small	Belle Large	Coral 400	Coral 600	Coral 800	Coral 1000	Coral 1200	Coral 1600	Flax 800	Flax 1500	Floral 400	Floral 600
HWD [kg]	4.77E-05	8.22E-05	3.35E-05	5.31E-05	2.98E-05	7.26E-05	1.06E-04	1.82E-04	3.46E-04	1.09E-03	1.31E-04	6.74E-04	3.03E-05	7.51E-05
NHWD [kg]	1.11E-01	1.41E-01	9.93E-02	1.17E-01	9.49E-02	1.40E-01	1.66E-01	2.33E-01	9.03E-01	1.77E+00	2.07E-01	7.67E-01	9.55E-02	1.42E-01
RWD [kg]	3.84E-04	5.79E-04	3.00E-04	4.05E-04	2.63E-04	4.84E-04	6.19E-04	1.05E-03	3.86E-03	1.05E-02	8.28E-04	7.47E-03	2.68E-04	4.93E-04
CRU [kg]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MFR [kg]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MER [kg]	7.51E-01	1.42E+00	5.67E-01	9.24E-01	5.33E-01	1.40E+00	1.76E+00	3.67E+00	5.93E+00	2.27E+01	2.76E+00	1.14E+01	5.53E-01	1.44E+00
EEE [MJ]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EET [MJ]	-	-	-	-	-	-	-	-	-	-	-	-	-	-

LCA results for products with a carbonised (caramel) finish [modules A1-A3]

Environmental impact	Floral 800	Floral 1000	Floral 1200	Floral 1600	Hinaki 500	Hinaki 900	Hinaki 1400	Kina 440	Kina 600	Kina 800	Kina 1000	Kina 1400	Koura 500	Koura 750
GWPIB [kg CO ₂ -eq.]	5.76E+00	7.71E+00	7.81E+00	2.85E+01	2.51E+00	4.24E+00	9.67E+00	2.97E+00	5.23E+00	7.37E+00	9.37E+00	3.17E+01	2.99E+00	5.37E+00
GWPEB [kg CO ₂ -eq.]	7.72E+00	1.07E+01	1.82E+01	5.22E+01	2.76E+00	5.14E+00	2.20E+01	3.37E+00	6.35E+00	9.37E+00	1.25E+01	5.51E+01	3.36E+00	6.61E+00
ODP [kg CFC11-eq.]	5.81E-11	8.95E-11	2.14E-10	8.41E-10	1.68E-11	3.43E-11	2.86E-10	2.28E-11	4.29E-11	6.27E-11	7.85E-11	5.69E-10	2.19E-11	3.78E-11
AP [kg SO ₂ -eq.]	7.36E-02	1.08E-01	1.87E-01	5.40E-01	2.06E-02	4.48E-02	2.09E-01	2.62E-02	5.62E-02	8.63E-02	1.18E-01	5.55E-01	2.63E-02	5.76E-02
EP [kg PO ₄ ³⁻ -eq.]	8.67E-03	1.29E-02	2.18E-02	6.67E-02	2.06E-03	5.02E-03	2.32E-02	2.59E-03	5.94E-03	9.60E-03	1.37E-02	6.47E-02	2.66E-03	6.53E-03
POCP [kg C ₂ H ₄ -eq.]	5.00E-03	7.57E-03	1.30E-02	3.97E-02	1.13E-03	2.82E-03	1.44E-02	1.47E-03	3.39E-03	5.47E-03	7.76E-03	3.89E-02	1.50E-03	3.61E-03
ADPE [kg Sb eq.]	1.28E-04	1.29E-04	4.89E-04	3.96E-04	1.27E-04	1.29E-04	7.84E-04	1.27E-04	1.30E-04	1.28E-04	1.29E-04	9.36E-04	1.27E-04	1.28E-04
ADPF [MJ]	1.10E+02	1.55E+02	2.59E+02	7.82E+02	3.81E+01	7.22E+01	3.15E+02	4.74E+01	8.91E+01	1.32E+02	1.76E+02	8.04E+02	4.73E+01	9.22E+01
Resource use	Floral 800	Floral 1000	Floral 1200	Floral 1600	Hinaki 500	Hinaki 900	Hinaki 1400	Kina 440	Kina 600	Kina 800	Kina 1000	Kina 1400	Koura 500	Koura 750
PERE [MJ]	1.12E+02	1.75E+02	3.07E+02	9.53E+02	2.23E+01	6.20E+01	3.28E+02	3.33E+01	8.87E+01	1.35E+02	1.81E+02	9.44E+02	3.31E+01	8.18E+01
PERM [MJ]	2.83E+01	3.54E+01	1.00E+02	2.27E+02	1.22E+01	1.95E+01	1.22E+02	1.36E+01	2.13E+01	3.21E+01	4.67E+01	2.26E+02	1.34E+01	2.62E+01
PERT [MJ]	1.40E+02	2.10E+02	4.07E+02	1.18E+03	3.45E+01	8.15E+01	4.50E+02	4.69E+01	1.10E+02	1.67E+02	2.28E+02	1.17E+03	4.65E+01	1.08E+02
PENRE [MJ]	1.05E+02	1.48E+02	2.47E+02	7.49E+02	3.63E+01	6.91E+01	3.02E+02	4.51E+01	8.56E+01	1.27E+02	1.69E+02	7.75E+02	4.52E+01	8.86E+01
PENRM [MJ]	5.19E+00	7.37E+00	1.16E+01	3.32E+01	1.78E+00	3.15E+00	1.30E+01	2.26E+00	3.47E+00	5.14E+00	7.40E+00	2.93E+01	2.15E+00	3.59E+00
PENRT [MJ]	1.10E+02	1.55E+02	2.59E+02	7.82E+02	3.81E+01	7.22E+01	3.15E+02	4.74E+01	8.91E+01	1.32E+02	1.76E+02	8.04E+02	4.73E+01	9.22E+01
SM [kg]	6.77E-01	5.36E-01	2.50E-02	2.50E-02	6.30E-01	7.06E-01	2.50E-02	6.30E-01	6.97E-01	8.63E-01	1.15E+00	2.50E-02	6.34E-01	9.32E-01
RSF [MJ]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NRSF [MJ]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FW [kg]	1.17E+04	1.47E+04	2.32E+04	5.93E+04	6.96E+03	9.90E+03	3.11E+04	9.26E+03	1.65E+04	2.06E+04	2.25E+04	7.33E+04	8.66E+03	1.29E+04
Waste categories and output flows	Floral 800	Floral 1000	Floral 1200	Floral 1600	Hinaki 500	Hinaki 900	Hinaki 1400	Kina 440	Kina 600	Kina 800	Kina 1000	Kina 1400	Koura 500	Koura 750
HWD [kg]	1.21E-04	1.89E-04	3.46E-04	1.09E-03	2.02E-05	6.19E-05	3.68E-04	2.84E-05	7.88E-05	1.25E-04	1.83E-04	1.01E-03	2.89E-05	8.12E-05
NHWD [kg]	1.84E-01	2.39E-01	9.04E-01	1.33E+00	9.90E-02	1.41E-01	1.80E+00	1.06E-01	1.54E-01	1.99E-01	2.57E-01	2.80E+00	1.07E-01	1.58E-01
RWD [kg]	7.15E-04	1.08E-03	3.86E-03	1.03E-02	1.80E-04	4.14E-04	5.35E-03	2.42E-04	5.04E-04	7.89E-04	1.07E-03	1.02E-02	2.40E-04	5.10E-04
CRU [kg]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MFR [kg]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MER [kg]	2.33E+00	3.78E+00	5.89E+00	2.27E+01	3.15E-01	1.17E+00	5.98E+00	4.20E-01	1.34E+00	2.26E+00	3.40E+00	2.03E+01	4.90E-01	1.51E+00
EEE [MJ]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EET [MJ]	-	-	-	-	-	-	-	-	-	-	-	-	-	-

LCA results for products with a carbonised (caramel) finish [modules A1-A3]

Environmental impact	Koura 1000	Koura 1600	Koura 2000	Koura 2400	Nikau Half	Nikau Full	Snowflake 800	Snowflake 1000	Snowflake 1600	Sola 800	Sola 1000	Sola 1350	Ulu Half	Ulu Full
GWPIB [kg CO ₂ -eq.]	9.25E+00	1.53E+01	1.80E+01	2.19E+01	3.83E+00	7.38E+00	1.10E+01	1.47E+01	2.85E+01	9.54E+00	1.34E+01	2.35E+01	3.82E+00	4.74E+00
GWPEB [kg CO ₂ -eq.]	1.15E+01	3.75E+01	4.77E+01	6.42E+01	4.92E+00	9.38E+00	1.34E+01	1.86E+01	5.54E+01	1.18E+01	1.69E+01	3.92E+01	4.93E+00	6.32E+00
ODP [kg CFC11-eq.]	7.21E-11	4.23E-10	4.92E-10	6.32E-10	2.45E-11	5.84E-11	1.25E-10	1.54E-10	3.03E-09	1.13E-10	1.60E-10	3.89E-10	2.78E-11	3.81E-11
AP [kg SO ₂ -eq.]	1.11E-01	3.67E-01	4.76E-01	6.46E-01	4.04E-02	8.91E-02	1.25E-01	1.81E-01	5.00E-01	1.10E-01	1.70E-01	4.10E-01	4.10E-02	5.67E-02
EP [kg PO ₄ ³⁻ -eq.]	1.32E-02	4.20E-02	5.64E-02	7.80E-02	4.81E-03	1.05E-02	1.38E-02	2.05E-02	5.88E-02	1.23E-02	1.98E-02	4.89E-02	4.68E-03	6.45E-03
POCP [kg C ₂ H ₄ -eq.]	7.37E-03	2.54E-02	3.38E-02	4.61E-02	2.60E-03	5.90E-03	7.98E-03	1.17E-02	3.54E-02	7.29E-03	1.16E-02	2.93E-02	2.59E-03	3.62E-03
ADPE [kg Sb eq.]	1.29E-04	7.92E-04	7.96E-04	8.07E-04	1.27E-04	1.28E-04	2.73E-04	2.74E-04	6.66E-04	2.73E-04	2.74E-04	4.96E-04	1.27E-04	1.28E-04
ADPF [MJ]	1.63E+02	5.46E+02	7.00E+02	9.49E+02	6.79E+01	1.32E+02	1.86E+02	2.59E+02	7.89E+02	1.64E+02	2.39E+02	5.92E+02	6.81E+01	8.77E+01
Resource use	Koura 1000	Koura 1600	Koura 2000	Koura 2400	Nikau Half	Nikau Full	Snowflake 800	Snowflake 1000	Snowflake 1600	Sola 800	Sola 1000	Sola 1350	Ulu Half	Ulu Full
PERE [MJ]	1.71E+02	6.45E+02	8.09E+02	1.14E+03	4.90E+01	1.37E+02	1.86E+02	2.79E+02	8.21E+02	1.64E+02	2.73E+02	7.16E+02	4.91E+01	7.83E+01
PERM [MJ]	3.66E+01	2.16E+02	2.91E+02	4.14E+02	2.54E+01	3.36E+01	3.62E+01	5.48E+01	2.79E+02	3.06E+01	3.96E+01	1.51E+02	2.34E+01	2.77E+01
PERT [MJ]	2.08E+02	8.61E+02	1.10E+03	1.55E+03	7.44E+01	1.71E+02	2.22E+02	3.34E+02	1.10E+03	1.95E+02	3.13E+02	8.67E+02	7.25E+01	1.06E+02
PENRE [MJ]	1.57E+02	5.24E+02	6.68E+02	9.07E+02	6.47E+01	1.27E+02	1.78E+02	2.49E+02	7.51E+02	1.59E+02	2.31E+02	5.66E+02	6.49E+01	8.37E+01
PENRM [MJ]	5.61E+00	2.24E+01	3.19E+01	4.20E+01	3.23E+00	4.92E+00	7.56E+00	9.88E+00	3.77E+01	5.48E+00	7.66E+00	2.63E+01	3.24E+00	4.04E+00
PENRT [MJ]	1.63E+02	5.46E+02	7.00E+02	9.49E+02	6.79E+01	1.32E+02	1.86E+02	2.59E+02	7.89E+02	1.64E+02	2.39E+02	5.92E+02	6.81E+01	8.77E+01
SM [kg]	9.64E-01	2.50E-02	2.50E-02	2.50E-02	9.73E-01	9.73E-01	8.84E-01	1.18E+00	1.04E+00	6.73E-01	5.28E-01	2.50E-02	8.19E-01	8.19E-01
RSF [MJ]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NRSF [MJ]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FW [kg]	1.78E+04	6.01E+04	6.24E+04	8.12E+04	7.25E+03	1.45E+04	2.45E+04	3.25E+04	1.25E+05	1.86E+04	2.27E+04	5.03E+04	8.63E+03	1.18E+04
Waste categories and output flows	Koura 1000	Koura 1600	Koura 2000	Koura 2400	Nikau Half	Nikau Full	Snowflake 800	Snowflake 1000	Snowflake 1600	Sola 800	Sola 1000	Sola 1350	Ulu Half	Ulu Full
HWD [kg]	1.68E-04	7.15E-04	9.15E-04	1.30E-03	6.32E-05	1.45E-04	1.75E-04	2.68E-04	9.13E-04	1.66E-04	2.81E-04	7.71E-04	5.40E-05	8.07E-05
NHWD [kg]	2.49E-01	2.06E+00	2.28E+00	2.59E+00	1.34E-01	2.12E-01	6.88E-01	7.82E-01	2.90E+00	6.66E-01	7.65E-01	1.30E+00	1.32E-01	1.56E-01
RWD [kg]	1.00E-03	8.76E-03	1.10E-02	1.54E-02	3.58E-04	8.01E-04	1.36E-03	1.81E-03	1.69E-02	1.26E-03	1.85E-03	6.53E-03	3.70E-04	4.99E-04
CRU [kg]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MFR [kg]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MER [kg]	3.64E+00	1.21E+01	1.55E+01	2.25E+01	1.06E+00	3.00E+00	3.47E+00	5.38E+00	1.50E+01	3.39E+00	6.20E+00	1.59E+01	7.87E-01	1.28E+00
EEE [MJ]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EET [MJ]	-	-	-	-	-	-	-	-	-	-	-	-	-	-

LCA results for products with a black stained finish [modules A1-A3]

Environmental impact	Beau Small	Beau Large	Belle Small	Belle Large	Coral 400	Coral 600	Coral 800	Coral 1000	Coral 1200	Coral 1600	Flax 800	Flax 1500	Floral 400	Floral 600
GWPIB [kg CO ₂ -eq.]	3.19E+00	4.43E+00	2.77E+00	3.51E+00	3.02E+00	4.80E+00	5.54E+00	8.48E+00	9.11E+00	3.31E+01	8.61E+00	1.50E+01	3.07E+00	4.83E+00
GWPEB [kg CO ₂ -eq.]	4.04E+00	5.90E+00	3.26E+00	4.38E+00	3.36E+00	5.88E+00	7.55E+00	1.13E+01	1.95E+01	5.72E+01	1.03E+01	3.67E+01	3.40E+00	5.93E+00
ODP [kg CFC11-eq.]	5.06E-11	7.07E-11	3.99E-11	5.02E-11	3.60E-11	5.40E-11	6.86E-11	1.12E-10	2.49E-10	9.51E-10	8.37E-11	3.91E-10	3.65E-11	5.62E-11
AP [kg SO ₂ -eq.]	3.62E-02	5.39E-02	2.83E-02	3.86E-02	2.97E-02	5.49E-02	7.16E-02	1.15E-01	2.02E-01	5.96E-01	9.67E-02	3.74E-01	3.00E-02	5.54E-02
EP [kg PO ₄ ³⁻ -eq.]	3.74E-03	6.01E-03	2.81E-03	4.13E-03	2.68E-03	5.98E-03	8.02E-03	1.34E-02	2.33E-02	7.28E-02	1.07E-02	4.48E-02	2.72E-03	6.03E-03
POCP [kg C ₂ H ₄ -eq.]	6.58E-03	1.08E-02	4.27E-03	6.80E-03	3.00E-03	6.45E-03	9.89E-03	1.59E-02	2.55E-02	6.32E-02	1.26E-02	5.04E-02	3.07E-03	7.59E-03
ADPE [kg Sb eq.]	1.28E-04	1.29E-04	1.28E-04	1.28E-04	1.26E-04	1.28E-04	1.29E-04	1.31E-04	4.92E-04	5.46E-04	1.30E-04	3.60E-04	1.26E-04	1.29E-04
ADPF [MJ]	6.15E+01	9.13E+01	4.90E+01	6.65E+01	4.85E+01	8.45E+01	1.08E+02	1.67E+02	2.82E+02	8.60E+02	1.48E+02	5.58E+02	4.93E+01	8.52E+01
Resource use	Beau Small	Beau Large	Belle Small	Belle Large	Coral 400	Coral 600	Coral 800	Coral 1000	Coral 1200	Coral 1600	Flax 800	Flax 1500	Floral 400	Floral 600
PERE [MJ]	5.43E+01	8.24E+01	4.16E+01	5.67E+01	4.96E+01	8.84E+01	1.15E+02	1.94E+02	3.47E+02	1.09E+03	1.61E+02	6.77E+02	5.02E+01	8.90E+01
PERM [MJ]	1.19E+01	1.96E+01	8.55E+00	1.40E+01	7.88E+00	1.76E+01	2.87E+01	3.39E+01	9.94E+01	2.25E+02	2.98E+01	2.11E+02	7.87E+00	1.80E+01
PERT [MJ]	6.62E+01	1.02E+02	5.01E+01	7.07E+01	5.75E+01	1.06E+02	1.44E+02	2.28E+02	4.46E+02	1.31E+03	1.91E+02	8.88E+02	5.81E+01	1.07E+02
PENRE [MJ]	5.67E+01	8.40E+01	4.56E+01	6.16E+01	4.62E+01	8.07E+01	1.02E+02	1.59E+02	2.69E+02	8.26E+02	1.42E+02	5.29E+02	4.70E+01	8.12E+01
PENRM [MJ]	4.85E+00	7.26E+00	3.40E+00	4.87E+00	2.29E+00	3.82E+00	5.76E+00	8.26E+00	1.29E+01	3.42E+01	5.57E+00	2.90E+01	2.32E+00	3.97E+00
PENRT [MJ]	6.15E+01	9.13E+01	4.90E+01	6.65E+01	4.85E+01	8.45E+01	1.08E+02	1.67E+02	2.82E+02	8.60E+02	1.48E+02	5.58E+02	4.93E+01	8.52E+01
SM [kg]	2.56E-01	3.78E-01	2.56E-01	3.78E-01	3.06E-01	4.94E-01	6.77E-01	5.36E-01	2.50E-02	2.50E-02	8.73E-01	2.50E-02	3.06E-01	4.94E-01
RSF [MJ]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NRSF [MJ]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FW [kg]	9.58E+03	1.08E+04	8.52E+03	9.27E+03	1.23E+04	1.35E+04	1.59E+04	1.88E+04	2.84E+04	6.86E+04	2.32E+04	5.47E+04	1.24E+04	1.35E+04
Waste categories and output flows	Beau Small	Beau Large	Belle Small	Belle Large	Coral 400	Coral 600	Coral 800	Coral 1000	Coral 1200	Coral 1600	Flax 800	Flax 1500	Floral 400	Floral 600
HWD [kg]	5.16E-05	8.83E-05	3.62E-05	5.73E-05	3.42E-05	8.13E-05	1.18E-04	2.00E-04	3.76E-04	1.21E-03	1.43E-04	7.33E-04	3.46E-05	8.26E-05
NHWD [kg]	1.67E-01	2.33E-01	1.33E-01	1.73E-01	1.19E-01	1.87E-01	2.43E-01	3.50E-01	1.07E+00	2.11E+00	3.02E-01	1.11E+00	1.21E-01	2.02E-01
RWD [kg]	4.74E-04	7.25E-04	3.56E-04	4.96E-04	3.11E-04	5.73E-04	7.60E-04	1.26E-03	4.16E-03	1.13E-02	9.86E-04	8.10E-03	3.16E-04	5.94E-04
CRU [kg]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MFR [kg]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MER [kg]	8.38E-01	1.58E+00	6.19E-01	1.02E+00	5.77E-01	1.58E+00	2.02E+00	4.13E+00	6.71E+00	2.60E+01	3.01E+00	1.30E+01	5.96E-01	1.59E+00
EEE [MJ]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EET [MJ]	-	-	-	-	-	-	-	-	-	-	-	-	-	-

LCA results for products with a black stained finish [modules A1-A3]

Environmental impact	Floral 800	Floral 1000	Floral 1200	Floral 1600	Hinaki 500	Hinaki 900	Hinaki 1400	Kina 440	Kina 600	Kina 800	Kina 1000	Kina 1400	Koura 500	Koura 750
GWPIB [kg CO ₂ -eq.]	6.53E+00	8.68E+00	9.08E+00	3.21E+01	2.70E+00	4.78E+00	1.11E+01	3.32E+00	5.79E+00	8.48E+00	1.07E+01	3.55E+01	3.33E+00	5.93E+00
GWPEB [kg CO ₂ -eq.]	8.50E+00	1.17E+01	1.95E+01	5.64E+01	2.91E+00	5.68E+00	2.36E+01	3.71E+00	6.91E+00	1.05E+01	1.38E+01	5.94E+01	3.68E+00	7.18E+00
ODP [kg CFC11-eq.]	7.53E-11	1.15E-10	2.49E-10	9.28E-10	2.08E-11	4.33E-11	3.14E-10	2.81E-11	5.29E-11	8.14E-11	1.05E-10	6.48E-10	2.70E-11	4.86E-11
AP [kg SO ₂ -eq.]	8.22E-02	1.19E-01	2.02E-01	5.89E-01	2.20E-02	5.07E-02	2.28E-01	2.96E-02	6.25E-02	9.87E-02	1.33E-01	6.07E-01	2.97E-02	6.40E-02
EP [kg PO ₄ ³⁻ -eq.]	9.35E-03	1.39E-02	2.33E-02	7.25E-02	2.09E-03	5.43E-03	2.51E-02	2.78E-03	6.40E-03	1.05E-02	1.48E-02	7.04E-02	2.85E-03	7.02E-03
POCP [kg C ₂ H ₄ -eq.]	1.07E-02	1.64E-02	2.57E-02	6.41E-02	2.74E-03	5.47E-03	2.24E-02	3.09E-03	6.50E-03	1.10E-02	1.62E-02	6.00E-02	2.97E-03	7.04E-03
ADPE [kg Sb eq.]	1.30E-04	1.31E-04	4.93E-04	4.02E-04	1.28E-04	1.30E-04	7.87E-04	1.28E-04	1.31E-04	1.30E-04	1.31E-04	9.42E-04	1.28E-04	1.29E-04
ADPF [MJ]	1.23E+02	1.72E+02	2.82E+02	8.56E+02	4.04E+01	8.03E+01	3.41E+02	5.22E+01	9.78E+01	1.49E+02	1.97E+02	8.78E+02	5.20E+01	1.01E+02
Resource use	Floral 800	Floral 1000	Floral 1200	Floral 1600	Hinaki 500	Hinaki 900	Hinaki 1400	Kina 440	Kina 600	Kina 800	Kina 1000	Kina 1400	Koura 500	Koura 750
PERE [MJ]	1.35E+02	2.03E+02	3.47E+02	1.08E+03	2.64E+01	7.81E+01	3.75E+02	4.27E+01	1.06E+02	1.69E+02	2.21E+02	1.07E+03	4.24E+01	9.88E+01
PERM [MJ]	2.83E+01	3.54E+01	1.00E+02	2.27E+02	1.22E+01	1.95E+01	1.22E+02	1.36E+01	2.13E+01	3.21E+01	4.67E+01	2.26E+02	1.34E+01	2.62E+01
PERT [MJ]	1.63E+02	2.38E+02	4.47E+02	1.31E+03	3.86E+01	9.76E+01	4.97E+02	5.63E+01	1.27E+02	2.01E+02	2.68E+02	1.30E+03	5.58E+01	1.25E+02
PENRE [MJ]	1.17E+02	1.64E+02	2.69E+02	8.20E+02	3.84E+01	7.69E+01	3.27E+02	4.98E+01	9.40E+01	1.43E+02	1.89E+02	8.47E+02	4.97E+01	9.70E+01
PENRM [MJ]	5.83E+00	8.37E+00	1.31E+01	3.58E+01	1.97E+00	3.45E+00	1.38E+01	2.44E+00	3.82E+00	5.75E+00	8.33E+00	3.15E+01	2.31E+00	3.97E+00
PENRT [MJ]	1.23E+02	1.72E+02	2.82E+02	8.56E+02	4.04E+01	8.03E+01	3.41E+02	5.22E+01	9.78E+01	1.49E+02	1.97E+02	8.78E+02	5.20E+01	1.01E+02
SM [kg]	6.77E-01	5.36E-01	2.50E-02	2.50E-02	6.30E-01	7.06E-01	2.50E-02	6.30E-01	6.97E-01	8.63E-01	1.15E+00	2.50E-02	6.34E-01	9.32E-01
RSF [MJ]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NRSF [MJ]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FW [kg]	1.65E+04	1.98E+04	2.87E+04	6.76E+04	8.59E+03	1.39E+04	3.76E+04	1.22E+04	2.05E+04	2.88E+04	3.08E+04	8.62E+04	1.15E+04	1.67E+04
Waste categories and output flows	Floral 800	Floral 1000	Floral 1200	Floral 1600	Hinaki 500	Hinaki 900	Hinaki 1400	Kina 440	Kina 600	Kina 800	Kina 1000	Kina 1400	Koura 500	Koura 750
HWD [kg]	1.35E-04	2.09E-04	3.76E-04	1.20E-03	2.09E-05	6.93E-05	4.02E-04	3.16E-05	8.75E-05	1.41E-04	2.04E-04	1.12E-03	3.21E-05	9.03E-05
NHWD [kg]	2.63E-01	3.59E-01	1.08E+00	1.69E+00	1.21E-01	1.80E-01	1.92E+00	1.30E-01	1.98E-01	2.81E-01	3.77E-01	3.12E+00	1.29E-01	2.07E-01
RWD [kg]	8.59E-04	1.29E-03	4.17E-03	1.11E-02	2.12E-04	4.88E-04	5.61E-03	2.85E-04	5.87E-04	9.42E-04	1.29E-03	1.09E-02	2.80E-04	6.00E-04
CRU [kg]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MFR [kg]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MER [kg]	2.64E+00	4.28E+00	6.66E+00	2.60E+01	3.13E-01	1.31E+00	6.86E+00	4.64E-01	1.52E+00	2.58E+00	3.88E+00	2.33E+01	5.36E-01	1.71E+00
EEE [MJ]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EET [MJ]	-	-	-	-	-	-	-	-	-	-	-	-	-	-

LCA results for products with a black stained finish [modules A1-A3]

Environmental impact	Koura 1000	Koura 1600	Koura 2000	Koura 2400	Nikau Half	Nikau Full	Snowflake 800	Snowflake 1000	Snowflake 1600	Sola 800	Sola 1000	Sola 1350	Ulu Half	Ulu Full
GWPIB [kg CO ₂ -eq.]	1.01E+01	1.80E+01	2.13E+01	2.62E+01	4.22E+00	8.19E+00	1.30E+01	1.74E+01	3.30E+01	1.04E+01	1.46E+01	2.80E+01	4.34E+00	5.49E+00
GWPEB [kg CO ₂ -eq.]	1.24E+01	4.05E+01	5.15E+01	6.92E+01	5.32E+00	1.02E+01	1.54E+01	2.14E+01	6.04E+01	1.27E+01	1.81E+01	4.41E+01	5.47E+00	7.09E+00
ODP [kg CFC11-eq.]	9.14E-11	4.79E-10	5.66E-10	7.33E-10	3.28E-11	7.52E-11	1.52E-10	1.92E-10	3.11E-09	1.32E-10	1.90E-10	4.56E-10	3.62E-11	5.06E-11
AP [kg SO ₂ -eq.]	1.22E-01	4.01E-01	5.21E-01	7.05E-01	4.49E-02	9.89E-02	1.48E-01	2.12E-01	5.57E-01	1.20E-01	1.84E-01	4.60E-01	4.70E-02	6.53E-02
EP [kg PO ₄ ³⁻ -eq.]	1.41E-02	4.55E-02	6.13E-02	8.46E-02	5.17E-03	1.14E-02	1.53E-02	2.27E-02	6.42E-02	1.32E-02	2.11E-02	5.45E-02	5.12E-03	7.09E-03
POCP [kg C ₂ H ₄ -eq.]	1.37E-02	4.10E-02	5.60E-02	7.65E-02	5.19E-03	1.11E-02	1.42E-02	2.14E-02	5.95E-02	1.37E-02	2.20E-02	4.98E-02	5.01E-03	7.28E-03
ADPE [kg Sb eq.]	1.30E-04	7.96E-04	8.02E-04	8.15E-04	1.28E-04	1.30E-04	2.76E-04	2.78E-04	6.73E-04	2.75E-04	2.77E-04	5.01E-04	1.28E-04	1.29E-04
ADPF [MJ]	1.78E+02	5.96E+02	7.66E+02	1.04E+03	7.42E+01	1.46E+02	2.16E+02	2.99E+02	8.71E+02	1.79E+02	2.59E+02	6.66E+02	7.61E+01	9.92E+01
Resource use	Koura 1000	Koura 1600	Koura 2000	Koura 2400	Nikau Half	Nikau Full	Snowflake 800	Snowflake 1000	Snowflake 1600	Sola 800	Sola 1000	Sola 1350	Ulu Half	Ulu Full
PERE [MJ]	1.99E+02	7.34E+02	9.19E+02	1.29E+03	6.09E+01	1.63E+02	2.50E+02	3.64E+02	9.61E+02	1.91E+02	3.10E+02	8.14E+02	6.51E+01	1.01E+02
PERM [MJ]	3.66E+01	2.16E+02	2.91E+02	4.14E+02	2.54E+01	3.36E+01	3.62E+01	5.48E+01	2.79E+02	3.06E+01	3.96E+01	1.51E+02	2.34E+01	2.77E+01
PERT [MJ]	2.36E+02	9.50E+02	1.21E+03	1.70E+03	8.63E+01	1.97E+02	2.86E+02	4.19E+02	1.24E+03	2.22E+02	3.50E+02	9.65E+02	8.85E+01	1.29E+02
PENRE [MJ]	1.72E+02	5.72E+02	7.32E+02	9.95E+02	7.07E+01	1.41E+02	2.08E+02	2.88E+02	8.31E+02	1.73E+02	2.50E+02	6.38E+02	7.26E+01	9.48E+01
PENRM [MJ]	6.31E+00	2.40E+01	3.42E+01	4.52E+01	3.52E+00	5.48E+00	8.21E+00	1.09E+01	4.02E+01	6.19E+00	8.83E+00	2.83E+01	3.50E+00	4.44E+00
PENRT [MJ]	1.78E+02	5.96E+02	7.66E+02	1.04E+03	7.42E+01	1.46E+02	2.16E+02	2.99E+02	8.71E+02	1.79E+02	2.59E+02	6.66E+02	7.61E+01	9.92E+01
SM [kg]	9.64E-01	2.50E-02	2.50E-02	2.50E-02	9.73E-01	9.73E-01	8.84E-01	1.18E+00	1.04E+00	6.73E-01	5.28E-01	2.50E-02	8.19E-01	8.19E-01
RSF [MJ]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NRSF [MJ]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FW [kg]	2.26E+04	7.18E+04	7.42E+04	9.45E+04	9.67E+03	1.94E+04	4.12E+04	5.32E+04	1.49E+05	2.39E+04	2.82E+04	5.98E+04	1.25E+04	1.73E+04
Waste categories and output flows	Koura 1000	Koura 1600	Koura 2000	Koura 2400	Nikau Half	Nikau Full	Snowflake 800	Snowflake 1000	Snowflake 1600	Sola 800	Sola 1000	Sola 1350	Ulu Half	Ulu Full
HWD [kg]	1.86E-04	7.83E-04	1.00E-03	1.42E-03	7.06E-05	1.61E-04	2.01E-04	3.07E-04	1.01E-03	1.83E-04	3.08E-04	8.54E-04	6.16E-05	9.19E-05
NHWD [kg]	3.39E-01	2.29E+00	2.60E+00	3.03E+00	1.71E-01	2.86E-01	7.92E-01	9.37E-01	3.26E+00	7.56E-01	9.09E-01	1.58E+00	1.69E-01	2.10E-01
RWD [kg]	1.17E-03	9.26E-03	1.17E-02	1.63E-02	4.28E-04	9.42E-04	1.57E-03	2.11E-03	1.77E-02	1.43E-03	2.10E-03	7.14E-03	4.40E-04	6.03E-04
CRU [kg]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MFR [kg]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MER [kg]	4.10E+00	1.39E+01	1.78E+01	2.58E+01	1.22E+00	3.39E+00	3.95E+00	6.14E+00	1.74E+01	3.80E+00	6.91E+00	1.83E+01	9.31E-01	1.50E+00
EEE [MJ]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EET [MJ]	-	-	-	-	-	-	-	-	-	-	-	-	-	-

LCA results for products with a coloured paint finish (1 side) [modules A1-A3]

Environmental impact	Beau Small	Beau Large	Belle Small	Belle Large	Coral 400	Coral 600	Coral 800	Coral 1000	Coral 1200	Coral 1600	Flax 800	Flax 1500	Floral 400	Floral 600
GWPIB [kg CO ₂ -eq.]	4.60E+00	6.29E+00	3.68E+00	4.60E+00	3.37E+00	5.31E+00	6.96E+00	1.07E+01	1.21E+01	4.09E+01	9.51E+00	1.79E+01	3.41E+00	5.41E+00
GWPEB [kg CO ₂ -eq.]	5.51E+00	7.88E+00	4.21E+00	5.55E+00	3.74E+00	6.45E+00	9.04E+00	1.37E+01	2.27E+01	6.51E+01	1.13E+01	3.97E+01	3.79E+00	6.60E+00
ODP [kg CFC11-eq.]	1.14E-10	1.56E-10	8.28E-11	1.03E-10	6.65E-11	9.65E-11	1.50E-10	2.33E-10	4.18E-10	1.43E-09	1.50E-10	5.95E-10	6.69E-11	9.96E-11
AP [kg SO ₂ -eq.]	4.59E-02	6.70E-02	3.43E-02	4.60E-02	3.06E-02	5.66E-02	7.93E-02	1.27E-01	2.18E-01	6.31E-01	1.01E-01	3.85E-01	3.10E-02	5.82E-02
EP [kg PO ₄ ³⁻ -eq.]	4.34E-03	6.81E-03	3.20E-03	4.61E-03	2.81E-03	6.04E-03	8.40E-03	1.39E-02	2.38E-02	7.23E-02	1.10E-02	4.42E-02	2.85E-03	6.21E-03
POCP [kg C ₂ H ₄ -eq.]	1.63E-02	2.24E-02	1.11E-02	1.41E-02	8.21E-03	1.25E-02	2.18E-02	3.29E-02	4.88E-02	1.37E-01	2.09E-02	7.34E-02	8.24E-03	1.30E-02
ADPE [kg Sb eq.]	1.35E-04	1.38E-04	1.32E-04	1.34E-04	1.29E-04	1.33E-04	1.38E-04	1.43E-04	5.10E-04	5.96E-04	1.37E-04	3.82E-04	1.29E-04	1.33E-04
ADPF [MJ]	8.48E+01	1.22E+02	6.41E+01	8.49E+01	5.55E+01	9.44E+01	1.33E+02	2.04E+02	3.32E+02	9.83E+02	1.65E+02	6.05E+02	5.64E+01	9.64E+01
Resource use	Beau Small	Beau Large	Belle Small	Belle Large	Coral 400	Coral 600	Coral 800	Coral 1000	Coral 1200	Coral 1600	Flax 800	Flax 1500	Floral 400	Floral 600
PERE [MJ]	7.48E+01	1.12E+02	5.38E+01	7.36E+01	4.94E+01	9.24E+01	1.33E+02	2.26E+02	3.92E+02	1.19E+03	1.70E+02	7.13E+02	5.01E+01	9.60E+01
PERM [MJ]	1.19E+01	1.96E+01	8.55E+00	1.40E+01	7.88E+00	1.76E+01	2.87E+01	3.39E+01	9.94E+01	2.25E+02	2.98E+01	2.11E+02	7.87E+00	1.80E+01
PERT [MJ]	8.67E+01	1.32E+02	6.23E+01	8.76E+01	5.73E+01	1.10E+02	1.62E+02	2.60E+02	4.91E+02	1.41E+03	2.00E+02	9.24E+02	5.80E+01	1.14E+02
PENRE [MJ]	7.75E+01	1.12E+02	5.93E+01	7.82E+01	5.24E+01	8.94E+01	1.24E+02	1.92E+02	3.14E+02	9.37E+02	1.58E+02	5.69E+02	5.33E+01	9.13E+01
PENRM [MJ]	7.33E+00	1.04E+01	4.80E+00	6.69E+00	3.08E+00	5.04E+00	8.94E+00	1.17E+01	1.81E+01	4.60E+01	7.20E+00	3.64E+01	3.09E+00	5.14E+00
PENRT [MJ]	8.48E+01	1.22E+02	6.41E+01	8.49E+01	5.55E+01	9.44E+01	1.33E+02	2.04E+02	3.32E+02	9.83E+02	1.65E+02	6.05E+02	5.64E+01	9.64E+01
SM [kg]	2.56E-01	3.78E-01	2.56E-01	3.78E-01	3.06E-01	4.94E-01	6.77E-01	5.36E-01	2.50E-02	2.50E-02	8.73E-01	2.50E-02	3.06E-01	4.94E-01
RSF [MJ]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NRSF [MJ]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FW [kg]	1.60E+04	2.00E+04	1.23E+04	1.43E+04	1.18E+04	1.48E+04	2.21E+04	2.99E+04	4.53E+04	1.21E+05	2.63E+04	7.50E+04	1.19E+04	1.52E+04
Waste categories and output flows	Beau Small	Beau Large	Belle Small	Belle Large	Coral 400	Coral 600	Coral 800	Coral 1000	Coral 1200	Coral 1600	Flax 800	Flax 1500	Floral 400	Floral 600
HWD [kg]	6.06E-05	9.96E-05	4.21E-05	6.39E-05	3.61E-05	8.16E-05	1.22E-04	2.06E-04	3.80E-04	1.18E-03	1.46E-04	7.20E-04	3.66E-05	8.45E-05
NHWD [kg]	5.32E-01	7.04E-01	3.81E-01	4.66E-01	2.97E-01	4.20E-01	6.90E-01	1.00E+00	1.98E+00	4.70E+00	6.64E-01	2.23E+00	2.97E-01	4.35E-01
RWD [kg]	1.02E-03	1.44E-03	7.27E-04	9.40E-04	5.73E-04	9.18E-04	1.43E-03	2.24E-03	5.51E-03	1.50E-02	1.53E-03	9.68E-03	5.78E-04	9.47E-04
CRU [kg]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MFR [kg]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MER [kg]	9.48E-01	1.74E+00	7.21E-01	1.13E+00	6.76E-01	1.63E+00	2.09E+00	4.28E+00	6.78E+00	2.53E+01	3.12E+00	1.25E+01	6.99E-01	1.68E+00
EEE [MJ]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EET [MJ]	-	-	-	-	-	-	-	-	-	-	-	-	-	-

LCA results for products with a coloured paint finish (1 side) [modules A1-A3]

Environmental impact	Floral 800	Floral 1000	Floral 1200	Floral 1600	Hinaki 500	Hinaki 900	Hinaki 1400	Kina 440	Kina 600	Kina 800	Kina 1000	Kina 1400	Koura 500	Koura 750
GWPIB [kg CO ₂ -eq.]	7.77E+00	1.10E+01	1.21E+01	3.98E+01	3.05E+00	5.08E+00	1.21E+01	3.63E+00	6.07E+00	9.00E+00	1.25E+01	4.05E+01	3.76E+00	6.40E+00
GWPEB [kg CO ₂ -eq.]	9.83E+00	1.41E+01	2.27E+01	6.42E+01	3.31E+00	6.03E+00	2.46E+01	4.05E+00	7.23E+00	1.11E+01	1.56E+01	6.44E+01	4.14E+00	7.69E+00
ODP [kg CFC11-eq.]	1.53E-10	2.43E-10	4.18E-10	1.40E-09	3.96E-11	7.46E-11	4.13E-10	5.16E-11	8.41E-11	1.41E-10	2.20E-10	1.02E-09	5.45E-11	8.79E-11
AP [kg SO ₂ -eq.]	8.84E-02	1.32E-01	2.19E-01	6.24E-01	2.44E-02	5.10E-02	2.28E-01	3.09E-02	6.25E-02	9.83E-02	1.40E-01	6.21E-01	3.18E-02	6.53E-02
EP [kg PO ₄ ³⁻ -eq.]	9.62E-03	1.45E-02	2.38E-02	7.20E-02	2.30E-03	5.41E-03	2.43E-02	2.89E-03	6.32E-03	1.03E-02	1.50E-02	6.87E-02	3.00E-03	7.01E-03
POCP [kg C ₂ H ₄ -eq.]	2.15E-02	3.44E-02	4.88E-02	1.37E-01	5.39E-03	9.85E-03	3.65E-02	6.74E-03	1.06E-02	1.93E-02	3.34E-02	1.16E-01	7.61E-03	1.24E-02
ADPE [kg Sb eq.]	1.37E-04	1.44E-04	5.10E-04	4.52E-04	1.30E-04	1.33E-04	7.97E-04	1.30E-04	1.34E-04	1.36E-04	1.44E-04	9.81E-04	1.31E-04	1.33E-04
ADPF [MJ]	1.44E+02	2.10E+02	3.32E+02	9.78E+02	4.69E+01	8.65E+01	3.58E+02	5.82E+01	1.03E+02	1.60E+02	2.28E+02	9.57E+02	5.97E+01	1.10E+02
Resource use	Floral 800	Floral 1000	Floral 1200	Floral 1600	Hinaki 500	Hinaki 900	Hinaki 1400	Kina 440	Kina 600	Kina 800	Kina 1000	Kina 1400	Koura 500	Koura 750
PERE [MJ]	1.51E+02	2.38E+02	3.92E+02	1.19E+03	3.10E+01	7.86E+01	3.81E+02	4.44E+01	1.06E+02	1.68E+02	2.38E+02	1.12E+03	4.55E+01	1.03E+02
PERM [MJ]	2.83E+01	3.54E+01	1.00E+02	2.27E+02	1.22E+01	1.95E+01	1.22E+02	1.36E+01	2.13E+01	3.21E+01	4.67E+01	2.26E+02	1.34E+01	2.62E+01
PERT [MJ]	1.79E+02	2.73E+02	4.92E+02	1.42E+03	4.32E+01	9.81E+01	5.03E+02	5.80E+01	1.27E+02	2.00E+02	2.85E+02	1.35E+03	5.89E+01	1.29E+02
PENRE [MJ]	1.36E+02	1.98E+02	3.14E+02	9.30E+02	4.45E+01	8.21E+01	3.41E+02	5.50E+01	9.81E+01	1.52E+02	2.16E+02	9.15E+02	5.67E+01	1.05E+02
PENRM [MJ]	8.18E+00	1.21E+01	1.84E+01	4.76E+01	2.39E+00	4.36E+00	1.72E+01	3.21E+00	4.88E+00	7.78E+00	1.23E+01	4.22E+01	3.05E+00	5.15E+00
PENRT [MJ]	1.44E+02	2.10E+02	3.32E+02	9.78E+02	4.69E+01	8.65E+01	3.58E+02	5.82E+01	1.03E+02	1.60E+02	2.28E+02	9.57E+02	5.97E+01	1.10E+02
SM [kg]	6.77E-01	5.36E-01	2.50E-02	2.50E-02	6.30E-01	7.06E-01	2.50E-02	6.30E-01	6.97E-01	8.63E-01	1.15E+00	2.50E-02	6.34E-01	9.32E-01
RSF [MJ]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NRSF [MJ]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FW [kg]	2.20E+04	3.15E+04	4.56E+04	1.20E+05	9.55E+03	1.43E+04	4.49E+04	1.24E+04	2.10E+04	2.93E+04	3.85E+04	1.22E+05	1.24E+04	1.84E+04
Waste categories and output flows	Floral 800	Floral 1000	Floral 1200	Floral 1600	Hinaki 500	Hinaki 900	Hinaki 1400	Kina 440	Kina 600	Kina 800	Kina 1000	Kina 1400	Koura 500	Koura 750
HWD [kg]	1.37E-04	2.15E-04	3.80E-04	1.18E-03	2.41E-05	6.86E-05	3.89E-04	3.33E-05	8.56E-05	1.38E-04	2.07E-04	1.09E-03	3.45E-05	8.96E-05
NHWD [kg]	6.80E-01	1.05E+00	1.98E+00	4.26E+00	2.27E-01	3.52E-01	2.47E+00	2.64E-01	3.70E-01	6.15E-01	1.03E+00	5.15E+00	2.90E-01	4.21E-01
RWD [kg]	1.48E-03	2.33E-03	5.52E-03	1.48E-02	3.75E-04	7.41E-04	6.37E-03	4.85E-04	8.36E-04	1.43E-03	2.24E-03	1.38E-02	5.19E-04	9.15E-04
CRU [kg]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MFR [kg]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MER [kg]	2.72E+00	4.42E+00	6.72E+00	2.53E+01	3.99E-01	1.34E+00	6.53E+00	5.18E-01	1.51E+00	2.57E+00	3.92E+00	2.23E+01	6.11E-01	1.72E+00
EEE [MJ]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EET [MJ]	-	-	-	-	-	-	-	-	-	-	-	-	-	-

LCA results for products with a coloured paint finish (1 side) [modules A1-A3]

Environmental impact	Koura 1000	Koura 1600	Koura 2000	Koura 2400	Nikau Half	Nikau Full	Snowflake 800	Snowflake 1000	Snowflake 1600	Sola 800	Sola 1000	Sola 1350	Ulu Half	Ulu Full
GWPIB [kg CO ₂ -eq.]	1.11E+01	2.18E+01	2.43E+01	3.04E+01	4.88E+00	9.36E+00	1.28E+01	1.76E+01	3.52E+01	1.20E+01	1.77E+01	3.22E+01	4.42E+00	5.73E+00
GWPEB [kg CO ₂ -eq.]	1.35E+01	4.43E+01	5.44E+01	7.33E+01	6.02E+00	1.15E+01	1.53E+01	2.17E+01	6.25E+01	1.43E+01	2.15E+01	4.83E+01	5.56E+00	7.35E+00
ODP [kg CFC11-eq.]	1.65E-10	7.42E-10	8.23E-10	1.09E-09	7.33E-11	1.54E-10	2.18E-10	3.01E-10	3.37E-09	2.28E-10	3.64E-10	7.47E-10	5.76E-11	8.64E-11
AP [kg SO ₂ -eq.]	1.25E-01	4.15E-01	5.24E-01	7.10E-01	4.81E-02	1.04E-01	1.39E-01	2.03E-01	5.50E-01	1.28E-01	2.02E-01	4.74E-01	4.54E-02	6.40E-02
EP [kg PO ₄ ³⁻ -eq.]	1.40E-02	4.50E-02	5.93E-02	8.19E-02	5.30E-03	1.15E-02	1.46E-02	2.18E-02	6.18E-02	1.34E-02	2.18E-02	5.34E-02	4.95E-03	6.91E-03
POCP [kg C ₂ H ₄ -eq.]	2.37E-02	8.10E-02	9.11E-02	1.24E-01	1.11E-02	2.25E-02	2.42E-02	3.73E-02	9.52E-02	2.75E-02	4.74E-02	9.24E-02	7.77E-03	1.20E-02
ADPE [kg Sb eq.]	1.38E-04	8.24E-04	8.30E-04	8.52E-04	1.32E-04	1.38E-04	2.83E-04	2.89E-04	7.01E-04	2.85E-04	2.95E-04	5.32E-04	1.30E-04	1.32E-04
ADPF [MJ]	1.95E+02	6.58E+02	8.12E+02	1.10E+03	8.54E+01	1.66E+02	2.18E+02	3.09E+02	9.07E+02	2.05E+02	3.12E+02	7.32E+02	7.84E+01	1.05E+02
Resource use	Koura 1000	Koura 1600	Koura 2000	Koura 2400	Nikau Half	Nikau Full	Snowflake 800	Snowflake 1000	Snowflake 1600	Sola 800	Sola 1000	Sola 1350	Ulu Half	Ulu Full
PERE [MJ]	2.09E+02	7.76E+02	9.49E+02	1.33E+03	6.90E+01	1.76E+02	2.25E+02	3.40E+02	9.61E+02	2.12E+02	3.58E+02	8.69E+02	6.14E+01	9.83E+01
PERM [MJ]	3.66E+01	2.16E+02	2.91E+02	4.14E+02	2.54E+01	3.36E+01	3.62E+01	5.48E+01	2.79E+02	3.06E+01	3.96E+01	1.51E+02	2.34E+01	2.77E+01
PERT [MJ]	2.46E+02	9.92E+02	1.24E+03	1.74E+03	9.44E+01	2.10E+02	2.61E+02	3.95E+02	1.24E+03	2.43E+02	3.98E+02	1.02E+03	8.48E+01	1.26E+02
PENRE [MJ]	1.87E+02	6.25E+02	7.69E+02	1.04E+03	8.05E+01	1.59E+02	2.08E+02	2.95E+02	8.58E+02	1.96E+02	3.00E+02	6.96E+02	7.41E+01	9.93E+01
PENRM [MJ]	7.95E+00	3.28E+01	4.34E+01	5.68E+01	4.95E+00	7.38E+00	1.03E+01	1.43E+01	4.92E+01	8.52E+00	1.25E+01	3.59E+01	4.26E+00	5.69E+00
PENRT [MJ]	1.95E+02	6.58E+02	8.12E+02	1.10E+03	8.54E+01	1.66E+02	2.18E+02	3.09E+02	9.07E+02	2.05E+02	3.12E+02	7.32E+02	7.84E+01	1.05E+02
SM [kg]	9.64E-01	2.50E-02	2.50E-02	2.50E-02	9.73E-01	9.73E-01	8.84E-01	1.18E+00	1.04E+00	6.73E-01	5.28E-01	2.50E-02	8.19E-01	8.19E-01
RSF [MJ]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NRSF [MJ]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FW [kg]	2.80E+04	9.49E+04	9.83E+04	1.30E+05	1.26E+04	2.50E+04	3.47E+04	4.85E+04	1.62E+05	3.13E+04	4.51E+04	9.01E+04	1.19E+04	1.71E+04
Waste categories and output flows	Koura 1000	Koura 1600	Koura 2000	Koura 2400	Nikau Half	Nikau Full	Snowflake 800	Snowflake 1000	Snowflake 1600	Sola 800	Sola 1000	Sola 1350	Ulu Half	Ulu Full
HWD [kg]	1.84E-04	7.67E-04	9.70E-04	1.37E-03	7.13E-05	1.61E-04	1.90E-04	2.93E-04	9.70E-04	1.85E-04	3.15E-04	8.32E-04	5.89E-05	8.87E-05
NHWD [kg]	7.41E-01	3.74E+00	4.01E+00	4.93E+00	3.90E-01	7.16E-01	1.18E+00	1.55E+00	4.71E+00	1.27E+00	1.84E+00	3.17E+00	2.88E-01	4.10E-01
RWD [kg]	1.75E-03	1.13E-02	1.36E-02	1.89E-02	7.55E-04	1.58E-03	2.10E-03	2.98E-03	1.96E-02	2.20E-03	3.51E-03	9.40E-03	6.09E-04	8.89E-04
CRU [kg]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MFR [kg]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MER [kg]	4.08E+00	1.34E+01	1.68E+01	2.45E+01	1.24E+00	3.43E+00	3.88E+00	6.02E+00	1.65E+01	3.91E+00	7.16E+00	1.76E+01	9.07E-01	1.47E+00
EEE [MJ]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EET [MJ]	-	-	-	-	-	-	-	-	-	-	-	-	-	-

LCA results for products with a white paint finish (1 side) [modules A1-A3]

Environmental impact	Beau Small	Beau Large	Belle Small	Belle Large	Coral 400	Coral 600	Coral 800	Coral 1000	Coral 1200	Coral 1600	Flax 800	Flax 1500	Floral 400	Floral 600
GWPIB [kg CO ₂ -eq.]	5.74E+00	7.81E+00	4.44E+00	5.54E+00	3.91E+00	6.10E+00	8.42E+00	1.28E+01	1.51E+01	4.91E+01	1.08E+01	2.20E+01	3.96E+00	6.23E+00
GWPEB [kg CO ₂ -eq.]	6.63E+00	9.37E+00	4.95E+00	6.47E+00	4.28E+00	7.22E+00	1.05E+01	1.58E+01	2.56E+01	7.31E+01	1.26E+01	4.37E+01	4.32E+00	7.41E+00
ODP [kg CFC11-eq.]	1.46E-10	1.99E-10	1.04E-10	1.30E-10	8.19E-11	1.19E-10	1.92E-10	2.95E-10	5.04E-10	1.66E-09	1.86E-10	7.12E-10	8.23E-11	1.23E-10
AP [kg SO ₂ -eq.]	5.36E-02	7.73E-02	3.94E-02	5.24E-02	3.43E-02	6.19E-02	8.92E-02	1.42E-01	2.39E-01	6.87E-01	1.10E-01	4.12E-01	3.47E-02	6.37E-02
EP [kg PO ₄ ³⁻ -eq.]	4.78E-03	7.40E-03	3.49E-03	4.97E-03	3.02E-03	6.34E-03	8.97E-03	1.48E-02	2.50E-02	7.55E-02	1.15E-02	4.58E-02	3.07E-03	6.53E-03
POCP [kg C ₂ H ₄ -eq.]	1.86E-02	2.54E-02	1.26E-02	1.59E-02	9.29E-03	1.41E-02	2.47E-02	3.72E-02	5.48E-02	1.54E-01	2.35E-02	8.17E-02	9.32E-03	1.47E-02
ADPE [kg Sb eq.]	1.42E-04	1.47E-04	1.37E-04	1.39E-04	1.32E-04	1.37E-04	1.46E-04	1.56E-04	5.27E-04	6.43E-04	1.44E-04	4.05E-04	1.32E-04	1.38E-04
ADPF [MJ]	1.03E+02	1.47E+02	7.64E+01	1.00E+02	6.43E+01	1.07E+02	1.56E+02	2.39E+02	3.81E+02	1.12E+03	1.86E+02	6.72E+02	6.51E+01	1.10E+02
Resource use	Beau Small	Beau Large	Belle Small	Belle Large	Coral 400	Coral 600	Coral 800	Coral 1000	Coral 1200	Coral 1600	Flax 800	Flax 1500	Floral 400	Floral 600
PERE [MJ]	8.72E+01	1.29E+02	6.21E+01	8.39E+01	5.53E+01	1.00E+02	1.49E+02	2.49E+02	4.24E+02	1.28E+03	1.84E+02	7.57E+02	5.61E+01	1.04E+02
PERM [MJ]	1.19E+01	1.96E+01	8.55E+00	1.40E+01	7.88E+00	1.76E+01	2.87E+01	3.39E+01	9.94E+01	2.25E+02	2.98E+01	2.11E+02	7.87E+00	1.80E+01
PERT [MJ]	9.91E+01	1.49E+02	7.06E+01	9.79E+01	6.32E+01	1.18E+02	1.78E+02	2.83E+02	5.23E+02	1.50E+03	2.14E+02	9.68E+02	6.40E+01	1.22E+02
PENRE [MJ]	9.49E+01	1.35E+02	7.12E+01	9.26E+01	6.10E+01	1.01E+02	1.46E+02	2.26E+02	3.61E+02	1.07E+03	1.78E+02	6.32E+02	6.18E+01	1.04E+02
PENRM [MJ]	8.11E+00	1.16E+01	5.23E+00	7.36E+00	3.34E+00	5.59E+00	1.02E+01	1.33E+01	2.05E+01	5.12E+01	8.03E+00	4.02E+01	3.35E+00	5.72E+00
PENRT [MJ]	1.03E+02	1.47E+02	7.64E+01	1.00E+02	6.43E+01	1.07E+02	1.56E+02	2.39E+02	3.81E+02	1.12E+03	1.86E+02	6.72E+02	6.51E+01	1.10E+02
SM [kg]	2.56E-01	3.78E-01	2.56E-01	3.78E-01	3.06E-01	4.94E-01	6.77E-01	5.36E-01	2.50E-02	2.50E-02	8.73E-01	2.50E-02	3.06E-01	4.94E-01
RSF [MJ]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NRSF [MJ]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FW [kg]	2.06E+04	2.61E+04	1.53E+04	1.80E+04	1.40E+04	1.79E+04	2.78E+04	3.83E+04	5.71E+04	1.53E+05	3.13E+04	9.12E+04	1.41E+04	1.85E+04
Waste categories and output flows	Beau Small	Beau Large	Belle Small	Belle Large	Coral 400	Coral 600	Coral 800	Coral 1000	Coral 1200	Coral 1600	Flax 800	Flax 1500	Floral 400	Floral 600
HWD [kg]	6.90E-05	1.11E-04	4.77E-05	7.09E-05	4.01E-05	8.74E-05	1.33E-04	2.22E-04	4.02E-04	1.25E-03	1.55E-04	7.51E-04	4.06E-05	9.05E-05
NHWD [kg]	8.61E-01	1.14E+00	6.00E-01	7.37E-01	4.54E-01	6.51E-01	1.12E+00	1.63E+00	2.86E+00	7.11E+00	1.04E+00	3.44E+00	4.55E-01	6.76E-01
RWD [kg]	1.44E-03	2.00E-03	1.01E-03	1.29E-03	7.74E-04	1.21E-03	1.98E-03	3.04E-03	6.64E-03	1.80E-02	2.00E-03	1.12E-02	7.79E-04	1.25E-03
CRU [kg]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MFR [kg]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MER [kg]	9.98E-01	1.82E+00	7.63E-01	1.18E+00	7.15E-01	1.68E+00	2.17E+00	4.43E+00	6.98E+00	2.60E+01	3.22E+00	1.28E+01	7.39E-01	1.74E+00
EEE [MJ]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EET [MJ]	-	-	-	-	-	-	-	-	-	-	-	-	-	-

LCA results for products with a white paint finish (1 side) [modules A1-A3]

Environmental impact	Floral 800	Floral 1000	Floral 1200	Floral 1600	Hinaki 500	Hinaki 900	Hinaki 1400	Kina 440	Kina 600	Kina 800	Kina 1000	Kina 1400	Koura 500	Koura 750
GWPIB [kg CO ₂ -eq.]	9.16E+00	1.32E+01	1.51E+01	4.81E+01	3.40E+00	5.67E+00	1.40E+01	4.06E+00	6.68E+00	1.02E+01	1.46E+01	4.70E+01	4.25E+00	7.14E+00
GWPEB [kg CO ₂ -eq.]	1.12E+01	1.64E+01	2.56E+01	7.23E+01	3.65E+00	6.61E+00	2.65E+01	4.47E+00	7.82E+00	1.22E+01	1.78E+01	7.08E+01	4.62E+00	8.42E+00
ODP [kg CFC11-eq.]	1.92E-10	3.08E-10	5.05E-10	1.64E-09	4.95E-11	9.15E-11	4.67E-10	6.37E-11	1.01E-10	1.74E-10	2.82E-10	1.20E-09	6.86E-11	1.09E-10
AP [kg SO ₂ -eq.]	9.78E-02	1.48E-01	2.39E-01	6.80E-01	2.68E-02	5.50E-02	2.41E-01	3.38E-02	6.65E-02	1.06E-01	1.55E-01	6.65E-01	3.51E-02	7.03E-02
EP [kg PO ₄ ³⁻ -eq.]	1.02E-02	1.53E-02	2.50E-02	7.52E-02	2.44E-03	5.64E-03	2.51E-02	3.06E-03	6.56E-03	1.08E-02	1.59E-02	7.13E-02	3.20E-03	7.30E-03
POCP [kg C ₂ H ₄ -eq.]	2.43E-02	3.90E-02	5.49E-02	1.54E-01	5.92E-03	1.10E-02	4.03E-02	7.59E-03	1.18E-02	2.16E-02	3.78E-02	1.30E-01	8.59E-03	1.38E-02
ADPE [kg Sb eq.]	1.45E-04	1.57E-04	5.27E-04	4.99E-04	1.32E-04	1.37E-04	8.08E-04	1.32E-04	1.37E-04	1.43E-04	1.56E-04	1.02E-03	1.33E-04	1.37E-04
ADPF [MJ]	1.67E+02	2.47E+02	3.81E+02	1.11E+03	5.25E+01	9.61E+01	3.89E+02	6.51E+01	1.13E+02	1.79E+02	2.63E+02	1.06E+03	6.77E+01	1.22E+02
Resource use	Floral 800	Floral 1000	Floral 1200	Floral 1600	Hinaki 500	Hinaki 900	Hinaki 1400	Kina 440	Kina 600	Kina 800	Kina 1000	Kina 1400	Koura 500	Koura 750
PERE [MJ]	1.66E+02	2.62E+02	4.24E+02	1.27E+03	3.47E+01	8.45E+01	4.01E+02	4.91E+01	1.12E+02	1.80E+02	2.61E+02	1.19E+03	5.09E+01	1.11E+02
PERM [MJ]	2.83E+01	3.54E+01	1.00E+02	2.27E+02	1.22E+01	1.95E+01	1.22E+02	1.36E+01	2.13E+01	3.21E+01	4.67E+01	2.26E+02	1.34E+01	2.62E+01
PERT [MJ]	1.94E+02	2.97E+02	5.24E+02	1.50E+03	4.69E+01	1.04E+02	5.23E+02	6.27E+01	1.33E+02	2.12E+02	3.08E+02	1.42E+03	6.43E+01	1.37E+02
PENRE [MJ]	1.58E+02	2.33E+02	3.60E+02	1.06E+03	5.00E+01	9.13E+01	3.70E+02	6.16E+01	1.08E+02	1.70E+02	2.49E+02	1.01E+03	6.44E+01	1.16E+02
PENRM [MJ]	9.21E+00	1.37E+01	2.07E+01	5.29E+01	2.55E+00	4.78E+00	1.87E+01	3.47E+00	5.36E+00	8.69E+00	1.39E+01	4.68E+01	3.29E+00	5.70E+00
PENRT [MJ]	1.67E+02	2.47E+02	3.81E+02	1.11E+03	5.25E+01	9.61E+01	3.89E+02	6.51E+01	1.13E+02	1.79E+02	2.63E+02	1.06E+03	6.77E+01	1.22E+02
SM [kg]	6.77E-01	5.36E-01	2.50E-02	2.50E-02	6.30E-01	7.06E-01	2.50E-02	6.30E-01	6.97E-01	8.63E-01	1.15E+00	2.50E-02	6.34E-01	9.32E-01
RSF [MJ]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NRSF [MJ]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FW [kg]	2.75E+04	4.04E+04	5.74E+04	1.52E+05	1.09E+04	1.66E+04	5.23E+04	1.42E+04	2.34E+04	3.39E+04	4.70E+04	1.48E+05	1.43E+04	2.13E+04
Waste categories and output flows	Floral 800	Floral 1000	Floral 1200	Floral 1600	Hinaki 500	Hinaki 900	Hinaki 1400	Kina 440	Kina 600	Kina 800	Kina 1000	Kina 1400	Koura 500	Koura 750
HWD [kg]	1.47E-04	2.32E-04	4.02E-04	1.24E-03	2.67E-05	7.30E-05	4.03E-04	3.64E-05	9.00E-05	1.46E-04	2.23E-04	1.14E-03	3.82E-05	9.50E-05
NHWD [kg]	1.09E+00	1.71E+00	2.86E+00	6.67E+00	3.28E-01	5.26E-01	3.02E+00	3.88E-01	5.47E-01	9.57E-01	1.66E+00	7.07E+00	4.33E-01	6.37E-01
RWD [kg]	2.00E-03	3.17E-03	6.64E-03	1.78E-02	5.04E-04	9.62E-04	7.07E-03	6.42E-04	1.06E-03	1.86E-03	3.05E-03	1.62E-02	7.01E-04	1.19E-03
CRU [kg]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MFR [kg]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MER [kg]	2.82E+00	4.58E+00	6.92E+00	2.60E+01	4.23E-01	1.38E+00	6.66E+00	5.43E-01	1.54E+00	2.65E+00	4.05E+00	2.28E+01	6.45E-01	1.77E+00
EEE [MJ]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EET [MJ]	-	-	-	-	-	-	-	-	-	-	-	-	-	-

LCA results for products with a white paint finish (1 side) [modules A1-A3]

Environmental impact	Koura 1000	Koura 1600	Koura 2000	Koura 2400	Nikau Half	Nikau Full	Snowflake 800	Snowflake 1000	Snowflake 1600	Sola 800	Sola 1000	Sola 1350	Ulu Half	Ulu Full
GWPIB [kg CO ₂ -eq.]	1.25E+01	2.65E+01	2.92E+01	3.70E+01	5.59E+00	1.08E+01	1.42E+01	1.98E+01	4.02E+01	1.37E+01	2.07E+01	3.74E+01	4.86E+00	6.44E+00
GWPEB [kg CO ₂ -eq.]	1.48E+01	4.89E+01	5.92E+01	7.97E+01	6.72E+00	1.29E+01	1.67E+01	2.38E+01	6.75E+01	1.60E+01	2.44E+01	5.35E+01	5.99E+00	8.05E+00
ODP [kg CFC11-eq.]	2.04E-10	8.76E-10	9.62E-10	1.27E-09	9.37E-11	1.95E-10	2.58E-10	3.63E-10	3.51E-09	2.77E-10	4.50E-10	8.97E-10	7.01E-11	1.07E-10
AP [kg SO ₂ -eq.]	1.35E-01	4.46E-01	5.57E-01	7.54E-01	5.29E-02	1.13E-01	1.48E-01	2.17E-01	5.84E-01	1.40E-01	2.22E-01	5.10E-01	4.84E-02	6.88E-02
EP [kg PO ₄ ³⁻ -eq.]	1.45E-02	4.68E-02	6.12E-02	8.44E-02	5.58E-03	1.20E-02	1.51E-02	2.27E-02	6.38E-02	1.41E-02	2.30E-02	5.55E-02	5.12E-03	7.18E-03
POCP [kg C ₂ H ₄ -eq.]	2.65E-02	9.05E-02	1.01E-01	1.37E-01	1.26E-02	2.54E-02	2.69E-02	4.17E-02	1.05E-01	3.10E-02	5.34E-02	1.03E-01	8.66E-03	1.35E-02
ADPE [kg Sb eq.]	1.46E-04	8.51E-04	8.58E-04	8.90E-04	1.36E-04	1.46E-04	2.90E-04	3.02E-04	7.30E-04	2.94E-04	3.12E-04	5.62E-04	1.33E-04	1.36E-04
ADPF [MJ]	2.17E+02	7.34E+02	8.91E+02	1.21E+03	9.70E+01	1.89E+02	2.40E+02	3.45E+02	9.89E+02	2.33E+02	3.61E+02	8.17E+02	8.55E+01	1.16E+02
Resource use	Koura 1000	Koura 1600	Koura 2000	Koura 2400	Nikau Half	Nikau Full	Snowflake 800	Snowflake 1000	Snowflake 1600	Sola 800	Sola 1000	Sola 1350	Ulu Half	Ulu Full
PERE [MJ]	2.24E+02	8.24E+02	9.99E+02	1.40E+03	7.66E+01	1.91E+02	2.39E+02	3.63E+02	1.01E+03	2.30E+02	3.90E+02	9.19E+02	6.61E+01	1.05E+02
PERM [MJ]	3.66E+01	2.16E+02	2.91E+02	4.14E+02	2.54E+01	3.36E+01	3.62E+01	5.48E+01	2.79E+02	3.06E+01	3.96E+01	1.51E+02	2.34E+01	2.77E+01
PERT [MJ]	2.61E+02	1.04E+03	1.29E+03	1.81E+03	1.02E+02	2.25E+02	2.75E+02	4.18E+02	1.29E+03	2.61E+02	4.30E+02	1.07E+03	8.95E+01	1.33E+02
PENRE [MJ]	2.08E+02	6.98E+02	8.43E+02	1.15E+03	9.15E+01	1.81E+02	2.29E+02	3.29E+02	9.36E+02	2.23E+02	3.47E+02	7.78E+02	8.09E+01	1.10E+02
PENRM [MJ]	8.80E+00	3.65E+01	4.77E+01	6.23E+01	5.51E+00	8.24E+00	1.12E+01	1.58E+01	5.35E+01	9.59E+00	1.42E+01	3.95E+01	4.62E+00	6.28E+00
PENRT [MJ]	2.17E+02	7.34E+02	8.91E+02	1.21E+03	9.70E+01	1.89E+02	2.40E+02	3.45E+02	9.89E+02	2.33E+02	3.61E+02	8.17E+02	8.55E+01	1.16E+02
SM [kg]	9.64E-01	2.50E-02	2.50E-02	2.50E-02	9.73E-01	9.73E-01	8.84E-01	1.18E+00	1.04E+00	6.73E-01	5.28E-01	2.50E-02	8.19E-01	8.19E-01
RSF [MJ]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NRSF [MJ]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FW [kg]	3.34E+04	1.13E+05	1.17E+05	1.56E+05	1.54E+04	3.06E+04	4.01E+04	5.70E+04	1.82E+05	3.80E+04	5.70E+04	1.11E+05	1.36E+04	1.99E+04
Waste categories and output flows	Koura 1000	Koura 1600	Koura 2000	Koura 2400	Nikau Half	Nikau Full	Snowflake 800	Snowflake 1000	Snowflake 1600	Sola 800	Sola 1000	Sola 1350	Ulu Half	Ulu Full
HWD [kg]	1.94E-04	8.02E-04	1.01E-03	1.42E-03	7.66E-05	1.71E-04	2.00E-04	3.09E-04	1.01E-03	1.98E-04	3.38E-04	8.71E-04	6.22E-05	9.40E-05
NHWD [kg]	1.15E+00	5.12E+00	5.44E+00	6.86E+00	6.00E-01	1.13E+00	1.58E+00	2.19E+00	6.19E+00	1.77E+00	2.72E+00	4.71E+00	4.17E-01	6.19E-01
RWD [kg]	2.26E-03	1.31E-02	1.55E-02	2.14E-02	1.02E-03	2.10E-03	2.61E-03	3.79E-03	2.15E-02	2.84E-03	4.63E-03	1.14E-02	7.73E-04	1.15E-03
CRU [kg]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MFR [kg]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MER [kg]	4.19E+00	1.38E+01	1.72E+01	2.49E+01	1.29E+00	3.55E+00	3.98E+00	6.18E+00	1.69E+01	4.04E+00	7.41E+00	1.80E+01	9.35E-01	1.52E+00
EEE [MJ]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EET [MJ]	-	-	-	-	-	-	-	-	-	-	-	-	-	-

LCA results for products with a white paint finish (both sides) [modules A1-A3]

Environmental impact	Beau Small	Beau Large	Belle Small	Belle Large	Coral 400	Coral 600	Coral 800	Coral 1000	Coral 1200	Coral 1600	Flax 800	Flax 1500	Floral 400	Floral 600
GWPIB [kg CO ₂ -eq.]	8.69E+00	1.18E+01	6.41E+00	7.98E+00	5.33E+00	8.11E+00	1.22E+01	1.83E+01	2.28E+01	7.02E+01	1.41E+01	3.25E+01	5.37E+00	8.34E+00
GWPEB [kg CO ₂ -eq.]	9.52E+00	1.32E+01	6.89E+00	8.87E+00	5.67E+00	9.20E+00	1.42E+01	2.12E+01	3.32E+01	9.39E+01	1.58E+01	5.41E+01	5.72E+00	9.48E+00
ODP [kg CFC11-eq.]	2.45E-10	3.32E-10	1.71E-10	2.12E-10	1.29E-10	1.86E-10	3.17E-10	4.78E-10	7.61E-10	2.36E-09	2.96E-10	1.06E-09	1.30E-10	1.93E-10
AP [kg SO ₂ -eq.]	7.39E-02	1.05E-01	5.31E-02	6.92E-02	4.41E-02	7.59E-02	1.15E-01	1.80E-01	2.92E-01	8.33E-01	1.32E-01	4.85E-01	4.45E-02	7.83E-02
EP [kg PO ₄ ³⁻ -eq.]	5.96E-03	8.98E-03	4.28E-03	5.95E-03	3.59E-03	7.15E-03	1.05E-02	1.70E-02	2.80E-02	8.39E-02	1.28E-02	4.99E-02	3.63E-03	7.37E-03
POCP [kg C ₂ H ₄ -eq.]	3.49E-02	4.72E-02	2.35E-02	2.94E-02	1.71E-02	2.51E-02	4.52E-02	6.72E-02	9.68E-02	2.68E-01	4.14E-02	1.39E-01	1.71E-02	2.61E-02
ADPE [kg Sb eq.]	1.56E-04	1.66E-04	1.46E-04	1.51E-04	1.39E-04	1.47E-04	1.64E-04	1.82E-04	5.64E-04	7.45E-04	1.60E-04	4.56E-04	1.39E-04	1.48E-04
ADPF [MJ]	1.50E+02	2.09E+02	1.08E+02	1.39E+02	8.67E+01	1.39E+02	2.16E+02	3.26E+02	5.03E+02	1.45E+03	2.38E+02	8.38E+02	8.75E+01	1.43E+02
Resource use	Beau Small	Beau Large	Belle Small	Belle Large	Coral 400	Coral 600	Coral 800	Coral 1000	Coral 1200	Coral 1600	Flax 800	Flax 1500	Floral 400	Floral 600
PERE [MJ]	1.23E+02	1.76E+02	8.60E+01	1.13E+02	7.25E+01	1.25E+02	1.95E+02	3.17E+02	5.18E+02	1.54E+03	2.24E+02	8.89E+02	7.32E+01	1.30E+02
PERM [MJ]	1.19E+01	1.96E+01	8.55E+00	1.40E+01	7.88E+00	1.76E+01	2.87E+01	3.39E+01	9.94E+01	2.25E+02	2.98E+01	2.11E+02	7.87E+00	1.80E+01
PERT [MJ]	1.35E+02	1.96E+02	9.45E+01	1.27E+02	8.04E+01	1.43E+02	2.24E+02	3.51E+02	6.17E+02	1.76E+03	2.54E+02	1.10E+03	8.11E+01	1.48E+02
PENRE [MJ]	1.40E+02	1.95E+02	1.02E+02	1.30E+02	8.27E+01	1.32E+02	2.03E+02	3.09E+02	4.76E+02	1.38E+03	2.28E+02	7.87E+02	8.35E+01	1.36E+02
PENRM [MJ]	9.96E+00	1.45E+01	6.25E+00	9.08E+00	3.98E+00	7.10E+00	1.34E+01	1.74E+01	2.70E+01	6.62E+01	1.03E+01	5.11E+01	3.98E+00	7.29E+00
PENRT [MJ]	1.50E+02	2.09E+02	1.08E+02	1.39E+02	8.67E+01	1.39E+02	2.16E+02	3.26E+02	5.03E+02	1.45E+03	2.38E+02	8.38E+02	8.75E+01	1.43E+02
SM [kg]	2.56E-01	3.78E-01	2.56E-01	3.78E-01	3.06E-01	4.94E-01	6.77E-01	5.36E-01	2.50E-02	2.50E-02	8.73E-01	2.50E-02	3.06E-01	4.94E-01
RSF [MJ]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NRSF [MJ]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FW [kg]	3.36E+04	4.36E+04	2.40E+04	2.88E+04	2.02E+04	2.69E+04	4.46E+04	6.29E+04	9.15E+04	2.47E+05	4.59E+04	1.38E+05	2.03E+04	2.78E+04
Waste categories and output flows	Beau Small	Beau Large	Belle Small	Belle Large	Coral 400	Coral 600	Coral 800	Coral 1000	Coral 1200	Coral 1600	Flax 800	Flax 1500	Floral 400	Floral 600
HWD [kg]	9.01E-05	1.39E-04	6.18E-05	8.83E-05	5.02E-05	1.02E-04	1.60E-04	2.61E-04	4.57E-04	1.40E-03	1.79E-04	8.26E-04	5.07E-05	1.06E-04
NHWD [kg]	1.61E+00	2.14E+00	1.10E+00	1.36E+00	8.13E-01	1.16E+00	2.08E+00	3.03E+00	4.82E+00	1.24E+01	1.87E+00	6.10E+00	8.13E-01	1.21E+00
RWD [kg]	2.47E-03	3.38E-03	1.70E-03	2.14E-03	1.27E-03	1.91E-03	3.29E-03	4.96E-03	9.32E-03	2.54E-02	3.15E-03	1.49E-02	1.27E-03	1.99E-03
CRU [kg]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MFR [kg]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MER [kg]	1.18E+00	2.09E+00	9.11E-01	1.36E+00	8.53E-01	1.88E+00	2.44E+00	4.94E+00	7.67E+00	2.83E+01	3.54E+00	1.36E+01	8.80E-01	1.94E+00
EEE [MJ]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EET [MJ]	-	-	-	-	-	-	-	-	-	-	-	-	-	-

LCA results for products with a white paint finish (both sides) [modules A1-A3]

Environmental impact	Floral 800	Floral 1000	Floral 1200	Floral 1600	Hinaki 500	Hinaki 900	Hinaki 1400	Kina 440	Kina 600	Kina 800	Kina 1000	Kina 1400	Koura 500	Koura 750
GWPIB [kg CO ₂ -eq.]	1.27E+01	1.90E+01	2.28E+01	6.91E+01	4.30E+00	7.19E+00	1.88E+01	5.17E+00	8.23E+00	1.31E+01	2.01E+01	6.39E+01	5.54E+00	9.03E+00
GWPEB [kg CO ₂ -eq.]	1.47E+01	2.21E+01	3.32E+01	9.30E+01	4.54E+00	8.10E+00	3.12E+01	5.56E+00	9.35E+00	1.52E+01	2.32E+01	8.74E+01	5.89E+00	1.03E+01
ODP [kg CFC11-eq.]	3.11E-10	5.00E-10	7.61E-10	2.33E-09	7.96E-11	1.42E-10	6.27E-10	1.01E-10	1.53E-10	2.74E-10	4.66E-10	1.76E-09	1.12E-10	1.72E-10
AP [kg SO ₂ -eq.]	1.23E-01	1.88E-01	2.92E-01	8.26E-01	3.30E-02	6.55E-02	2.74E-01	4.15E-02	7.73E-02	1.27E-01	1.93E-01	7.82E-01	4.40E-02	8.34E-02
EP [kg PO ₄ ³⁻ -eq.]	1.16E-02	1.76E-02	2.80E-02	8.36E-02	2.80E-03	6.24E-03	2.70E-02	3.50E-03	7.17E-03	1.20E-02	1.81E-02	7.80E-02	3.71E-03	8.05E-03
POCP [kg C ₂ H ₄ -eq.]	4.37E-02	7.05E-02	9.68E-02	2.68E-01	1.11E-02	1.93E-02	6.65E-02	1.38E-02	2.02E-02	3.79E-02	6.79E-02	2.21E-01	1.57E-02	2.41E-02
ADPE [kg Sb eq.]	1.63E-04	1.85E-04	5.64E-04	6.01E-04	1.36E-04	1.44E-04	8.31E-04	1.38E-04	1.45E-04	1.57E-04	1.83E-04	1.10E-03	1.40E-04	1.46E-04
ADPF [MJ]	2.23E+02	3.39E+02	5.03E+02	1.44E+03	6.68E+01	1.20E+02	4.65E+02	8.26E+01	1.38E+02	2.26E+02	3.51E+02	1.33E+03	8.80E+01	1.52E+02
Resource use	Floral 800	Floral 1000	Floral 1200	Floral 1600	Hinaki 500	Hinaki 900	Hinaki 1400	Kina 440	Kina 600	Kina 800	Kina 1000	Kina 1400	Koura 500	Koura 750
PERE [MJ]	2.09E+02	3.32E+02	5.18E+02	1.53E+03	4.56E+01	1.04E+02	4.59E+02	6.26E+01	1.31E+02	2.16E+02	3.29E+02	1.40E+03	6.64E+01	1.34E+02
PERM [MJ]	2.83E+01	3.54E+01	1.00E+02	2.27E+02	1.22E+01	1.95E+01	1.22E+02	1.36E+01	2.13E+01	3.21E+01	4.67E+01	2.26E+02	1.34E+01	2.62E+01
PERT [MJ]	2.37E+02	3.67E+02	6.18E+02	1.76E+03	5.78E+01	1.23E+02	5.81E+02	7.62E+01	1.52E+02	2.48E+02	3.76E+02	1.63E+03	7.98E+01	1.60E+02
PENRE [MJ]	2.11E+02	3.21E+02	4.76E+02	1.37E+03	6.39E+01	1.14E+02	4.42E+02	7.85E+01	1.31E+02	2.15E+02	3.33E+02	1.27E+03	8.41E+01	1.45E+02
PENRM [MJ]	1.20E+01	1.81E+01	2.73E+01	6.81E+01	2.91E+00	5.94E+00	2.31E+01	4.11E+00	6.70E+00	1.12E+01	1.82E+01	6.00E+01	3.87E+00	7.22E+00
PENRT [MJ]	2.23E+02	3.39E+02	5.03E+02	1.44E+03	6.68E+01	1.20E+02	4.65E+02	8.26E+01	1.38E+02	2.26E+02	3.51E+02	1.33E+03	8.80E+01	1.52E+02
SM [kg]	6.77E-01	5.36E-01	2.50E-02	2.50E-02	6.30E-01	7.06E-01	2.50E-02	6.30E-01	6.97E-01	8.63E-01	1.15E+00	2.50E-02	6.34E-01	9.32E-01
RSF [MJ]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NRSF [MJ]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FW [kg]	4.33E+04	6.61E+04	9.18E+04	2.46E+05	1.49E+04	2.34E+04	7.37E+04	1.91E+04	3.03E+04	4.71E+04	7.16E+04	2.23E+05	2.00E+04	2.97E+04
Waste categories and output flows	Floral 800	Floral 1000	Floral 1200	Floral 1600	Hinaki 500	Hinaki 900	Hinaki 1400	Kina 440	Kina 600	Kina 800	Kina 1000	Kina 1400	Koura 500	Koura 750
HWD [kg]	1.73E-04	2.73E-04	4.58E-04	1.40E-03	3.31E-05	8.38E-05	4.37E-04	4.44E-05	1.01E-04	1.68E-04	2.62E-04	1.26E-03	4.74E-05	1.09E-04
NHWD [kg]	1.99E+00	3.17E+00	4.82E+00	1.20E+01	5.56E-01	9.11E-01	4.24E+00	6.69E-01	9.41E-01	1.71E+00	3.07E+00	1.13E+01	7.59E-01	1.12E+00
RWD [kg]	3.24E-03	5.18E-03	9.32E-03	2.52E-02	8.18E-04	1.49E-03	8.74E-03	1.03E-03	1.60E-03	2.90E-03	4.97E-03	2.21E-02	1.15E-03	1.85E-03
CRU [kg]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MFR [kg]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MER [kg]	3.14E+00	5.11E+00	7.61E+00	2.82E+01	5.08E-01	1.52E+00	7.11E+00	6.31E-01	1.68E+00	2.90E+00	4.51E+00	2.45E+01	7.65E-01	1.95E+00
EEE [MJ]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EET [MJ]	-	-	-	-	-	-	-	-	-	-	-	-	-	-

LCA results for products with a white paint finish (both sides) [modules A1-A3]

Environmental impact	Koura 1000	Koura 1600	Koura 2000	Koura 2400	Nikau Half	Nikau Full	Snowflake 800	Snowflake 1000	Snowflake 1600	Sola 800	Sola 1000	Sola 1350	Ulu Half	Ulu Full
GWPIB [kg CO ₂ -eq.]	1.60E+01	3.85E+01	4.16E+01	5.38E+01	7.42E+00	1.44E+01	1.77E+01	2.53E+01	5.32E+01	1.80E+01	2.84E+01	5.09E+01	5.98E+00	8.26E+00
GWPEB [kg CO ₂ -eq.]	1.83E+01	6.08E+01	7.14E+01	9.63E+01	8.51E+00	1.64E+01	2.01E+01	2.93E+01	8.02E+01	2.03E+01	3.20E+01	6.67E+01	7.09E+00	9.84E+00
ODP [kg CFC11-eq.]	3.21E-10	1.28E-09	1.38E-09	1.83E-09	1.55E-10	3.15E-10	3.74E-10	5.47E-10	3.95E-09	4.22E-10	7.07E-10	1.34E-09	1.07E-10	1.67E-10
AP [kg SO ₂ -eq.]	1.59E-01	5.30E-01	6.43E-01	8.71E-01	6.56E-02	1.38E-01	1.72E-01	2.56E-01	6.74E-01	1.70E-01	2.76E-01	6.03E-01	5.62E-02	8.15E-02
EP [kg PO ₄ ³⁻ -eq.]	1.59E-02	5.16E-02	6.61E-02	9.11E-02	6.30E-03	1.35E-02	1.65E-02	2.49E-02	6.90E-02	1.59E-02	2.61E-02	6.09E-02	5.57E-03	7.90E-03
POCP [kg C ₂ H ₄ -eq.]	4.57E-02	1.56E-01	1.69E-01	2.29E-01	2.26E-02	4.53E-02	4.61E-02	7.18E-02	1.76E-01	5.47E-02	9.54E-02	1.76E-01	1.48E-02	2.34E-02
ADPE [kg Sb eq.]	1.63E-04	9.09E-04	9.18E-04	9.71E-04	1.45E-04	1.64E-04	3.08E-04	3.29E-04	7.92E-04	3.15E-04	3.49E-04	6.27E-04	1.38E-04	1.45E-04
ADPF [MJ]	2.73E+02	9.24E+02	1.09E+03	1.47E+03	1.26E+02	2.46E+02	2.96E+02	4.32E+02	1.19E+03	3.02E+02	4.83E+02	1.03E+03	1.03E+02	1.45E+02
Resource use	Koura 1000	Koura 1600	Koura 2000	Koura 2400	Nikau Half	Nikau Full	Snowflake 800	Snowflake 1000	Snowflake 1600	Sola 800	Sola 1000	Sola 1350	Ulu Half	Ulu Full
PERE [MJ]	2.67E+02	9.74E+02	1.15E+03	1.61E+03	9.86E+01	2.36E+02	2.82E+02	4.31E+02	1.17E+03	2.83E+02	4.84E+02	1.09E+03	7.96E+01	1.27E+02
PERM [MJ]	3.66E+01	2.16E+02	2.91E+02	4.14E+02	2.54E+01	3.36E+01	3.62E+01	5.48E+01	2.79E+02	3.06E+01	3.96E+01	1.51E+02	2.34E+01	2.77E+01
PERT [MJ]	3.04E+02	1.19E+03	1.44E+03	2.02E+03	1.24E+02	2.70E+02	3.18E+02	4.86E+02	1.45E+03	3.14E+02	5.24E+02	1.24E+03	1.03E+02	1.55E+02
PENRE [MJ]	2.62E+02	8.77E+02	1.03E+03	1.39E+03	1.19E+02	2.35E+02	2.82E+02	4.12E+02	1.12E+03	2.89E+02	4.64E+02	9.80E+02	9.74E+01	1.37E+02
PENRM [MJ]	1.13E+01	4.69E+01	6.02E+01	7.86E+01	6.93E+00	1.06E+01	1.40E+01	2.03E+01	6.62E+01	1.26E+01	1.89E+01	5.00E+01	5.62E+00	7.91E+00
PENRT [MJ]	2.73E+02	9.24E+02	1.09E+03	1.47E+03	1.26E+02	2.46E+02	2.96E+02	4.32E+02	1.19E+03	3.02E+02	4.83E+02	1.03E+03	1.03E+02	1.45E+02
SM [kg]	9.64E-01	2.50E-02	2.50E-02	2.50E-02	9.73E-01	9.73E-01	8.84E-01	1.18E+00	1.04E+00	6.73E-01	5.28E-01	2.50E-02	8.19E-01	8.19E-01
RSF [MJ]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NRSF [MJ]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FW [kg]	4.92E+04	1.67E+05	1.73E+05	2.30E+05	2.36E+04	4.67E+04	5.57E+04	8.16E+04	2.40E+05	5.74E+04	9.13E+04	1.71E+05	1.86E+04	2.80E+04
Waste categories and output flows	Koura 1000	Koura 1600	Koura 2000	Koura 2400	Nikau Half	Nikau Full	Snowflake 800	Snowflake 1000	Snowflake 1600	Sola 800	Sola 1000	Sola 1350	Ulu Half	Ulu Full
HWD [kg]	2.19E-04	8.88E-04	1.09E-03	1.54E-03	8.98E-05	1.97E-04	2.25E-04	3.48E-04	1.10E-03	2.29E-04	3.93E-04	9.67E-04	7.02E-05	1.07E-04
NHWD [kg]	2.04E+00	8.16E+00	8.60E+00	1.11E+01	1.07E+00	2.05E+00	2.47E+00	3.59E+00	9.47E+00	2.88E+00	4.68E+00	8.13E+00	7.01E-01	1.08E+00
RWD [kg]	3.49E-03	1.73E-02	1.98E-02	2.72E-02	1.66E-03	3.36E-03	3.83E-03	5.72E-03	2.60E-02	4.36E-03	7.32E-03	1.60E-02	1.16E-03	1.79E-03
CRU [kg]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MFR [kg]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MER [kg]	4.58E+00	1.48E+01	1.82E+01	2.65E+01	1.43E+00	3.93E+00	4.32E+00	6.71E+00	1.80E+01	4.50E+00	8.26E+00	1.95E+01	1.03E+00	1.67E+00
EEE [MJ]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EET [MJ]	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Additional environmental information

All products comply with the European Union's RoHS Directive (2011/65/EU) and are formaldehyde-free. Our manufacturing site complies with local government requirements.

Data for other life cycle stages (distribution, installation and end-of-life) are available as a separate annex at www.davidtrubridge.com/about-us/environmental, presented in the format specified by EN 15804. The annex has been reviewed by the same verifier as this EPD; however, as it is not registered with an EPD programme, it cannot be considered an EPD in its own right.

The use stage has been excluded from this EPD and the separate annex as it varies significantly depending on the type of bulb selected and the use pattern of the light. David Trubridge recommends that you choose a high-efficiency bulb / lamp, such as a light-emitting diode (LED), as the environmental impacts during use will often be many times larger than the impacts of producing and disposing of the light fitting.

David Trubridge used to supply lights fully assembled. However, past LCA work showed that this led to significant environmental impacts from packaging and distribution. All lights are now supplied in kitset form. We call this design framework **Seed System**.



The Seed System concept is simple: You receive the seed of a lightshade, and have fun and satisfaction making it grow yourself. Your tree fills into the space; the patterns of its leaves calm with their shade. It nourishes with its fruit, and keeps the balance of life. The idea ripples out and spreads to the world, which becomes a brighter place.

References

AEPDP. (2015). *General Programme Instructions of the Australasian EPD® Programme, Version 1.0, 2015-02-20*. Available: http://epd-australasia.com/sites/default/files/documents/Australasian_GPI_1.0.pdf.

David Trubridge. (2015). *Annex to EPD for Kitset Pendant Lights: Additional Life Cycle Stages*. Available: <http://www.davidtrubridge.com/about-us/environmental>

EN 15804:2012. *Sustainability of construction works — Environmental product declarations — Core rules for the product category of construction products*. Brussels: European Committee for Standardization.

EN 16485:2014. *Round and sawn timber — Environmental Product Declarations — Product category rules for wood and wood-based products for use in construction*. Brussels: European Committee for Standardization.

EU. (2011). *Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (recast)*. Brussels: European Union.

IEPDS. (2015). *PCR 2012:01, Construction products and Construction services, Version 2.0, 2015-03-03*. Stockholm: International EPD® System. Available: <http://www.environdec.com/en/PCR/Detail/?Pcr=8098>.

ISO 14025:2006. *Environmental labels and declarations — Type III environmental declarations — Principles and procedures*. Geneva: International Organization for Standardization.

thinkstep. (2014). *GaBi life cycle inventory database documentation*. Leinfelden-Echterdingen, Germany: thinkstep AG. Available: <http://database-documentation.gabi-software.com/support/gabi/gabi-database-2014-lci-documentation/>.

Vogtländer, J.G. & van der Lugt, P. (2014). *The Environmental Impact of Industrial Bamboo Products: Life-cycle Assessment and Carbon Sequestration*. INBAR Technical Report No. 35. Beijing: INBAR. Available: <http://www.inbar.int/wp-content/uploads/downloads/2014/08/Technical-Report-No.35.pdf>