

Environmental Product Declaration



In accordance with ISO 14025:2006, ISO 21930:2017 and EN 15804:2012+A2:2019/AC:2021 for:

Mecho non-PVC Shade Cloths

from

Mecho



Programme:	The International EPD® System, www.environdec.com
Programme operator:	EPD International AB; EPD is registered through aligned regional hub: EPD North America (www.epdna.com)
EPD registration number:	S-P-09254
Publication date:	2023-07-31
Revision date (version 1.1):	2023-09-18
Valid until:	2028-07-31


An EPD should provide current information and may be updated if conditions change. The stated validity is therefore subject to the continued registration and publication at www.environdec.com



General information

Programme information

Programme:	The International EPD® System
Address:	EPD International AB Box 210 60 SE-100 31 Stockholm Sweden
Website:	www.environdec.com
E-mail:	info@environdec.com

Accountabilities for PCR, LCA and independent, third-party verification
Product Category Rules (PCR)
CEN standard EN 15804 and ISO 21930 serve as the Core Product Category Rules (PCR)
Product Category Rules (PCR): Construction Products, 2019:14, version 1.11 and UN CPC code 26890
PCR review was conducted by: The Technical Committee of the International EPD® System. A full list of members available on www.environdec.com . The review panel may be contacted via info@environdec.com .
Life Cycle Assessment (LCA)
LCA accountability: Nicholas Hammond, Chandler Jacobson; WAP Sustainability Consulting
Third-party verification
Independent third-party verification of the declaration and data, according to ISO 14025:2006, via:
<input checked="" type="checkbox"/> EPD verification by individual verifier
<input type="checkbox"/> INTERNAL <input checked="" type="checkbox"/> EXTERNAL
Third-party verifier: <i>James Mellentine, Thrive ESG</i> 
Approved by: The International EPD® System
Procedure for follow-up of data during EPD validity involves third party verifier:
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

The EPD owner has the sole ownership, liability, and responsibility for the EPD.

EPDs within the same product category but registered in different EPD programmes, or not compliant with EN 15804 or ISO 21930, may not be comparable. For two EPDs to be comparable, they must be based on the same PCR (including the same version number) or be based on fully-aligned PCRs or versions of PCRs; cover products with identical functions, technical performances and use (e.g. identical declared/functional units); have equivalent system boundaries and descriptions of data; apply equivalent data quality requirements, methods of data collection, and allocation methods; apply identical cut-off rules and impact assessment methods (including the same version of characterization

factors); have equivalent content declarations; and be valid at the time of comparison. For further information about comparability, see EN 15804, ISO 21930, and ISO 14025.

Company information

Owner of the EPD: Mecho

Contact: Amy Bohnenkamp sustainability@mechoshade.com

Description of the organization: Mecho has been committed to pushing the boundaries of invention, blazing new trails in solar shade design. From the original clutch operated solar shade to our automated motorized shading systems, Mecho continues to defy convention in the commercial shade industry.

Mecho has been a trusted leader in sustainable window shade solutions for commercial spaces. All products are engineered with health, wellness, and circularity in mind. Mecho has been a leading innovator with Cradle to Cradle, considered one of the most rigorous certifications for sustainable products. We achieved the first Cradle to Cradle (C2C) certification for a manual shade in 2004, and in 2022 earned the first certified motor of any product category, combined for an industry-first C2C motorized roller shade system. Our product line prioritizes supply chain and material transparency verified with several other material health programs including Health Product Declarations and Declare.

Product-related or management system-related certifications: No product-related or management system-related certifications are declared.

Location of production site(s): Reynosa, MX

Product information

Product name: Mecho non-PVC Shade Cloths including:

AcoustiVeil, Chelsea Blackout, EcoSheer 6750 Series, EcoSheer 6850 Series, EcoVeil 1350 Series, EcoVeil 1550 Series, EcoVeil 1750 Series, Equinox Blackout

Product identification: CSI division 12-20-00

Product description: Mecho non-PVC shade cloths are made of at less than 50% PVC and are intended for a variety of solar shade applications. These indoor solar shades offer a clean aesthetic that allows for daylight and heating control. Products range in thickness and openness depending on the end requirements of the consumer.

UN CPC code: 26890

Geographical scope: The geographical scope of the raw material acquisition is North America, Asia, and Europe. The geographical scope of the manufacturing portion of the life cycle is North America. Distribution from the manufacturing location is to the United States. The end of life (disposal of the product) occurs within the United States.

Multiple products: Products listed under the product name are included. Products which are similar enough according to ISO 21930 to be grouped together as one sets of results have been, as is clearly defined in the results section, below. Within each product group defined in this report, a representative product was chosen. The representative product was defined as the product of median weight within the specific product group.

LCA information

Declared unit: One (1) m² of cut window shade fabric.

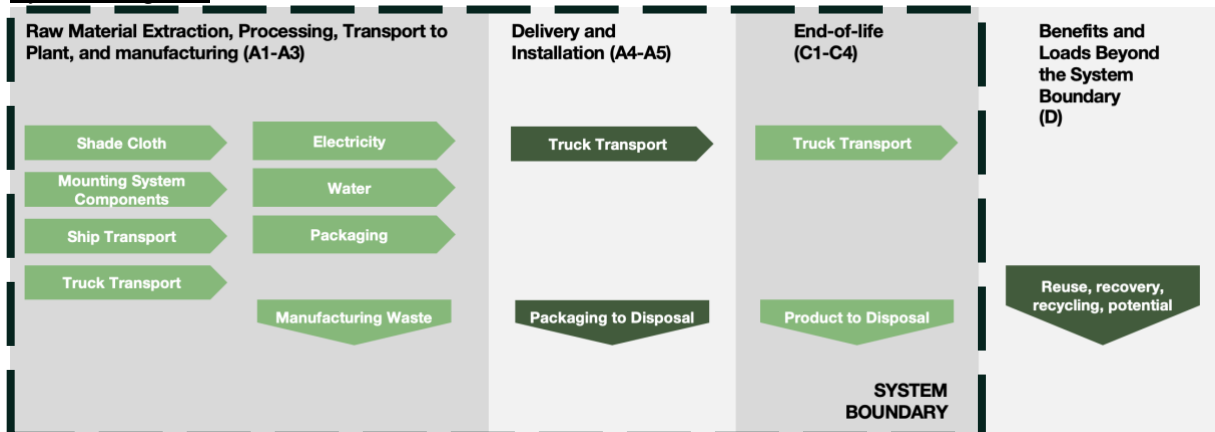
Reference service life: As this is a cradle-to-gate with options study, a reference service life (RSL) is not declared.

Time representativeness: Primary data were provided by the manufacturer and represent all information for calendar year 2021.

Database(s) and LCA software used: MLC Database 2023.1 and LCA FE 10.7 software.

Description of system boundaries: Cradle to gate with options, modules A4-A5, modules C1–C4, module D. Use modules (B1-B7) were excluded. Use modules were excluded because the use stage for these products (comprised of opening and closing the shade system) requires only manual energy which would be attributed to the mounting system. Additionally, the cleaning requirements for these products are minimal and cannot be quantified.

System diagram:



Manufacturing:

- Rolls of finished fabric received.
- Fabric is cut to specific order size.
- Fabric is hemmed.
- Fabric is packaged and shipped to installation site.

Electricity: The electricity is sourced from the power grid, and no onsite electricity generation is used. Sub-meter specific electricity values were not available from the manufacturing facility. Annual electricity consumption was normalized to the declared unit of one meter squared of fabric using the allocation methodology described below. The emissions associated with the Mexico Grid Mix as used in the LCA are 0.636 kg CO₂ eq per kWh using the GWP-GHG impact assessment methodology.

End of life: At the product's end of life, the fabric is assumed to be manually taken down and 100% of the product is sent to landfill as mixed waste.

Assumptions: Throughout this study, value choices and judgements that may have affected the LCA have been described. Additional decisions are summarized below:

- The inclusion of overhead energy data was determined appropriate due to the inability to sub-meter and isolate manufacturing energy from overhead energy.

- Similarly, manufacturing inputs and outputs were assumed to be the same across all products.
- The use and selection of secondary datasets from Sphera's MLC database – The selection of which generic dataset to use to represent an aspect of a supply chain is a significant value choice. Collaboration between the LCA practitioner, the manufacturer, and Sphera LCA FE data experts was invaluable in determining best-case scenarios in the selection of data. However, no generic data can be a perfect fit. Improved supply chain specific data would improve the accuracy of results, however budgetary and time constraints also must be considered.

Cut-off Rules: All inputs and outputs to unit processes for which data are available are included in the assessment. When data was not available, average, generic, or proxy data from From the MLC database was utilized.

A cut-off rule of 1% is considered in this assessment. This rule dictates that the included inventory data accounts for greater than 99% of the total material and energy inputs to the system. Furthermore, greater than 99% of the environmental impacts are presumed to have been modeled based on the assessor's best judgment of excluded inputs. All substances with hazardous and toxic properties that can be of concern for human health and/or the environment have been identified, if present in the product, and declared according to normative requirements in standards or regulations applicable in the market for which the EPD is valid, even if the given process unit is under the cut-off criterion.

The list of excluded materials and energy inputs include:

- Some material inputs may have been excluded within the Sphera MLC datasets used for this project. All Sphera MLC datasets have been critically reviewed and conform to the exclusion requirement of the PCR.

Data Quality: Overall, the data quality for this LCA is considered good. The geographic coverage, time coverage, and technological coverage are all good. The precision, consistency, and reproducibility are all high and the model is considered complete.

Allocation: General principles of allocation were based on ISO 14040/44. There is currently no sub-metering at the manufacturing facility. To derive a per-unit value for manufacturing inputs and outputs such as electricity, water, and manufacturing waste, allocation based on the number of employees dedicated to each production process (e.g. shade cloth cutting and mounting system assembly).

This strategy was deemed appropriate based on the assumption that the use of manpower is indicative of the use of grid power. In other words, it was assumed that the number of people working on a given production pathway was indicative of the amount of machinery used in that pathway. As a default, secondary MLC datasets use a physical basis for allocation.

Of relevance to the defined system boundary is the method in which recycled materials were handled. Throughout the study recycled materials were accounted for via the cut-off method.

Modules declared, geographical scope:

	Product stage			Construction process stage		Use stage							End of life stage				Resource recovery stage
	Raw material supply	Transport	Manufacturing	Transport	Construction installation	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction demolition	Transport	Waste processing	Disposal	Reuse-Recovery-Recycling-potential
Module	A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Modules declared	X	X	X	X	X	ND	ND	ND	ND	ND	ND	ND	X	X	X	X	X
Geography	GLO	GLO	MX	US	US	-	-	-	-	-	-	-	US	US	US	US	US
Specific data used	17.3% - 34.8%			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variation - products	<10%			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variation - sites	0%			-	-	-	-	-	-	-	-	-	-	-	-	-	-

ND: Module not declared

Content information

All values are reported according to the declared unit of one square meter of shade cloth.

No substances included in the Candidate List of Substances of Very High Concern for authorization under REACH Regulations are present in Mecho non-PVC Shade Cloths, either above the threshold for registration with the European Chemicals Agency or above 0,1% (wt/wt).

AcoustiVeil Group

Group contains: AcoustiVeil

Representative product: AcoustiVeil

Product components	Weight, kg	Biogenic material, weight-% and kg C/kg
PET Filament	0.180	0% and 0 kg C/kg
TOTAL	0.180	0% and 0 kg C/kg

Chelsea Blackout Group

Group contains: Chelsea Blackout

Representative product: Chelsea Blackout

Product components	Weight, kg	Biogenic material, weight-% and kg C/kg
Acrylic Coating	0.195	0% and 0 kg C/kg
PET Filament	0.195	0% and 0 kg C/kg

TOTAL	0.390	0% and 0 kg C/kg
-------	-------	------------------

EcoSheer Group

Group contains: EcoSheer 6750 Series, EcoSheer 6850 Series

Representative product: EcoSheer 6850 Series

Product components	Weight, kg	Biogenic material, weight-% and kg C/kg
PET Filament	0.301	0% and 0 kg C/kg
TOTAL	0.301	0% and 0 kg C/kg

EcoVeil Group

Group contains: EcoVeil 1350 Series, EcoVeil 1550 Series, EcoVeil 1750 Series

Representative product: EcoVeil 1550 Series

Product components	Weight, kg	Biogenic material, weight-% and kg C/kg
TPO Filament	0.460	0% and 0 kg C/kg
TOTAL	0.460	0% and 0 kg C/kg

Equinox Blackout Group

Group contains: Equinox Blackout

Representative product: Equinox Blackout

Product components	Weight, kg	Biogenic material, weight-% and kg C/kg
Acrylic Coating	0.300	0% and 0 kg C/kg
PET Filament	0.200	0% and 0 kg C/kg
TOTAL	0.500	0% and 0 kg C/kg

Packaging Information

Identical for all Products

Packaging materials	Weight, kg	Weight biogenic carbon, kg C/kg
Cardboard	0.289	0.55 kg C/kg
Polyethylene	3.86E-03	0 kg C/kg
Steel	1.45E-03	0 kg C/kg
Paper	2.39E-03	0.44 kg C/kg
Expanded Polystyrene	4.59E-03	0 kg C/kg
Gum Tape	1.49E-03	0 kg C/kg
Masking Tape	9.11E-06	0 kg C/kg
TOTAL	0.303	

Post-Factory Gate Scenario Development

A4 (Delivery to Installation Site) Scenario Per Declared Unit

Distribution Details	Value
Vehicle Type	Diesel Truck
Fuel Efficiency [L/100km] (whole vehicle)	42
Fuel Type	Diesel
Distance [km]	1465
Capacity Utilization [%]	67
Weight of Products Transported [kg]	0.795*
Capacity utilization volume factor	1

*Represents average weight of shade cloths included in LCA study.

A5 (Installation) Scenario Per Declared Unit

Explicit installation instructions can be found at the following site: <https://www.mechoshade.com>.

Packaging End of Life Fates	Weight, kg
Packaging Waste to Landfill [kg]	0.052
Packaging Waste to Incineration [kg]	0.013
Packaging Waste to Recycling [kg]	0.239
TOTAL	0.303

C1-C4 (Product End of Life) Scenario Per Declared Unit

End of life for Mecho shade cloths was modeled as 100% landfilling.

Distribution Details	Value
Collected as mixed construction waste [kg]	0.492*
Waste to Landfill [kg]	0.492*
<i>Distance to Landfill [km]</i>	32

*Represents average weight of shade cloths included in LCA study.

Module D (Benefits and Loads Beyond the System Boundary) Scenario Per Declared Unit

Benefits and loads beyond the system boundary are accounted for in Module D and are to be declared according to the PCR. For shade systems, Module D impacts are associated both with scrap value from the End-Of-Life modules for the mounting systems and the additional benefits and loads due to the disposal of packaging materials in Module A5. Specifically, Module D impacts for Mecho non-PVC Shade Cloths are associated with the recycling of steel scrap, plastic recycling, waste incineration, and landfill gas recovery.

Impact Category Details

Impact Category	Acronym	Unit
Mandatory impact category indicators according to EN 15804+A2		
Global Warming Potential Total	GWP-total	kg CO ₂ eq.
Global Warming Potential fossil fuels	GWP-fossil	kg CO ₂ eq.
Global Warming Potential biogenic	GWP-biogenic	kg CO ₂ eq.
Global Warming Potential land use and land use change;	GWP-luluc	kg CO ₂ eq.
Depletion potential of the stratospheric ozone layer	ODP	kg CFC 11 eq.
Acidification potential, Accumulated Exceedance	AP	mol H ⁺ eq.
Eutrophication potential, fraction of nutrients reaching freshwater end compartment	EP-freshwater	kg P eq.
Eutrophication potential, fraction of nutrients reaching marine end compartment;	EP-marine	kg N eq.
Eutrophication potential, Accumulated Exceedance	EP-terrestrial	mol N eq.
Formation potential of tropospheric ozone	POCP	kg NMVOC eq.
Abiotic depletion potential for non-fossil resources*	ADP- min.&metals	kg Sb eq.
Abiotic depletion for fossil resources potential*	ADP-fossil	MJ
Water (user) deprivation potential, deprivation-weighted water consumption*	WDP	m ³
PCR 2019:14 (version 1.11) GWP-GHG		
Global warming potential – greenhouse gasses	GWP-GHG	kg CO ₂ eq.
TRACI 2.1		
Acidification potential of soil and water	AP	kg SO ₂ eq.
Eutrophication potential	EP	kg N eq.
Global warming potential (100 years, excludes biogenic CO ₂)**	GWPe	kg CO ₂ eq.
Global warming potential (100 years, includes biogenic CO ₂)	GWPi	kg CO ₂ eq.
Ozone depletion of air	ODP	kg CFC-11 eq.
Use of fossil fuel resources	Resources	MJ, surplus energy
Smog formation potential	SFP	kg O ₃ eq.
Biogenic Carbon Indicators		
Biogenic Carbon Removal from Product	BCRP	kg CO ₂ eq.
Biogenic Carbon Emission from Product	BCEP	kg CO ₂ eq.
Biogenic Carbon Removal from Packaging	BCRK	kg CO ₂ eq.
Biogenic Carbon Emission from Packaging	BCEK	kg CO ₂ eq.
Biogenic Carbon Emission from Combustion of Waste from Renewable Sources Used in Production Processes	BCEW	kg CO ₂ eq.
Calcination Carbon Emissions	CCE	kg CO ₂ eq.
Carbonation Carbon Removals	CCR	kg CO ₂ eq.
Carbon Emissions from Combustion of Waste from Non- Renewable Sources used in Production Processes	CWNR	kg CO ₂ eq.
Resource Use Indicators		
Use of renewable primary energy	RPR _E	MJ LHV
Use of renewable primary energy as materials	RPR _M	MJ LHV
Total use of renewable primary energy resources	RPR _T	MJ LHV
Use of non-renewable primary energy	NRPR _E	MJ LHV
Use of non-renewable primary energy as materials	NRPR _M	MJ LHV
Total use of non-renewable primary energy resources	NRPR _T	MJ LHV
Secondary materials	SM	kg

Impact Category	Acronym	Unit
Renewable secondary fuels	RSF	MJ
Non-renewable secondary fuels	NRSF	MJ
Recovered energy	RE	MJ
Net use of fresh water	FW	m ³
Waste and Output Flow Indicators		
Hazardous waste disposed	HWD	kg
Non-hazardous waste disposed	NHWD	kg
Radioactive Waste deposited	RWD	kg
High-level radioactive waste	HLRW	kg
Intermediate- and low-level radioactive waste, conditioned, to final repository	ILLRW	kg
Components for reuse	CRU	kg
Materials for recycling	MFR	kg
Materials for energy recovery	MER	kg
Exported electrical energy	EEE	MJ
Exported thermal energy	EET	MJ
Optional Environmental Indicators		
Particulate matter	PM	Disease Incidences
Ionizing radiation, human health***	IR	kBq U235 eq.
Ecotoxicity, freshwater*	ET	CTUe
Human toxicity, cancer*	HT _c	CTUh
Human toxicity, non-cancer*	HT _{nc}	CTUh
Land use	LU	Pt

* Disclaimer: The results of these environmental impact indicators shall be used with care as the uncertainties of these results are high or as there is limited experience with the indicator.

** GWP_e (Global Warming Potential Excluding Biogenic Carbon) is the default TRACI 2.1 GWP value.

***This impact category deals mainly with the eventual impact of low dose ionizing radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure nor due to radioactive waste disposal in underground facilities. Potential ionizing radiation from the soil, from radon and from some construction materials is also not measured by this indicator.

Results of the environmental performance indicators

Mandatory impact category indicators according to TRACI2.1 and EN 15804+A2 with additional indicators in alignment with ISO 21930

AcoustiVeil Group

Results per declared unit [one square meter of shade cloth]									
Indicator	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
EN 15804+A2									
GWP-total	kg CO ₂ eq.	1.63E+00	5.76E-02	5.19E-01	0.00E+00	4.65E-04	0.00E+00	3.89E-03	2.64E-01
GWP-fossil	kg CO ₂ eq.	1.90E+00	5.75E-02	8.25E-03	0.00E+00	4.64E-04	0.00E+00	3.89E-03	-1.06E-01
GWP-biogenic	kg CO ₂ eq.	-2.79E-01	4.16E-05	5.11E-01	0.00E+00	3.37E-07	0.00E+00	-5.29E-06	3.71E-01
GWP-luluc	kg CO ₂ eq.	2.99E-04	6.44E-05	2.80E-06	0.00E+00	5.23E-07	0.00E+00	1.42E-06	-3.51E-04
ODP	kg CFC 11 eq.	1.49E-08	6.95E-15	5.05E-15	0.00E+00	5.64E-17	0.00E+00	8.78E-15	-4.58E-13
AP	mol H ⁺ eq.	1.23E-02	2.80E-04	9.55E-05	0.00E+00	1.38E-06	0.00E+00	2.32E-05	-5.70E-04

Results per declared unit [one square meter of shade cloth]									
Indicator	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
EP-freshwater	kg P eq.	1.61E-05	2.79E-07	9.05E-07	0.00E+00	2.26E-09	0.00E+00	4.68E-06	-4.30E-06
EP-marine	kg N eq.	1.85E-03	1.41E-04	2.11E-05	0.00E+00	6.81E-07	0.00E+00	5.82E-06	-2.45E-04
EP-terrestrial	mol N eq.	1.99E-02	1.56E-03	4.25E-04	0.00E+00	7.52E-06	0.00E+00	6.37E-05	-2.34E-03
POCP	kg NMVOC eq.	5.96E-03	2.87E-04	5.17E-05	0.00E+00	1.35E-06	0.00E+00	1.76E-05	-6.60E-04
ADP-min.&metals	kg Sb eq.	1.37E-07	3.71E-09	2.37E-10	0.00E+00	3.01E-11	0.00E+00	2.18E-10	-3.78E-08
ADP-fossil	MJ	3.82E+01	7.44E-01	5.61E-02	0.00E+00	6.04E-03	0.00E+00	5.91E-02	-1.58E+00
WDP	m ³	3.94E-01	3.31E-03	2.13E-03	0.00E+00	2.68E-05	0.00E+00	2.01E-04	-2.28E-02
PCR 2019:14 (version 1.11) GWP-GHG									
GWP-GHG	kg CO ₂ eq.	1.90E+00	5.68E-02	3.46E-02	0.00E+00	4.60E-04	0.00E+00	3.82E-03	-1.04E-01
TRACI 2.1									
AP	kg SO ₂ eq.	1.06E-02	2.61E-04	1.15E-04	0.00E+00	1.28E-06	0.00E+00	1.99E-05	-5.26E-04
EP	kg N eq.	5.36E-04	2.32E-05	1.96E-05	0.00E+00	1.34E-07	0.00E+00	3.19E-05	-1.67E-04
GWP _e	kg CO ₂ eq.	1.86E+00	5.65E-02	2.91E-02	0.00E+00	4.57E-04	0.00E+00	3.77E-03	-1.04E-01
GWP _i	kg CO ₂ eq.	1.53E+00	5.65E-02	5.08E-01	0.00E+00	4.57E-04	0.00E+00	3.76E-03	2.68E-01
ODP	kg CFC-11 eq.	1.98E-08	1.46E-16	1.06E-16	0.00E+00	1.19E-18	0.00E+00	1.85E-16	-9.68E-15
Resources	MJ, surplus energy	4.49E+00	1.06E-01	7.07E-03	0.00E+00	8.57E-04	0.00E+00	7.57E-03	-1.63E-01
SFP	kg O ₃ eq.	1.11E-01	6.05E-03	6.40E-04	0.00E+00	2.93E-05	0.00E+00	3.64E-04	-1.34E-02
Biogenic Carbon Indicators									
BCRP	kg CO ₂ eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BCEP	kg CO ₂ eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BCRK	kg CO ₂ eq.	4.61E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BCEK	kg CO ₂ eq.	0.00E+00	0.00E+00	4.61E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BCEW	kg CO ₂ eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CCE	kg CO ₂ eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CCR	kg CO ₂ eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CWNR	kg CO ₂ eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Resource Use Indicators									
RPR _E	MJ LHV	-6.29E-01	3.18E-02	4.96E-03	0.00E+00	2.58E-04	0.00E+00	7.04E-03	-7.52E+00
RPR _M	MJ LHV	4.99E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RPR _T	MJ LHV	4.37E+00	3.18E-02	4.96E-03	0.00E+00	2.58E-04	0.00E+00	7.04E-03	-7.52E+00
NRPR _E	MJ LHV	2.89E+01	7.98E-01	5.83E-02	0.00E+00	6.48E-03	0.00E+00	6.02E-02	-1.59E+00
NRPR _M	MJ LHV	9.62E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NRPR _T	MJ LHV	3.86E+01	7.98E-01	5.83E-02	0.00E+00	6.48E-03	0.00E+00	6.02E-02	-1.59E+00
SM	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RE	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	m ³	1.14E-02	1.09E-04	5.22E-05	0.00E+00	8.85E-07	0.00E+00	7.46E-06	-1.02E-03
Waste and Output Flow Indicators									
HWD	kg	3.81E-05	2.30E-12	7.59E-13	0.00E+00	1.86E-14	0.00E+00	1.50E-12	-5.32E-08
NHWD	kg	3.53E-02	6.95E-05	4.33E-02	0.00E+00	5.64E-07	0.00E+00	1.79E-01	-7.96E-03
RWD	kg	1.14E-03	2.29E-06	9.61E-07	0.00E+00	1.86E-08	0.00E+00	6.66E-07	-8.17E-05

Results per declared unit [one square meter of shade cloth]									
Indicator	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
HLRW	kg	1.36E-06	2.72E-09	1.13E-09	0.00E+00	2.20E-11	0.00E+00	7.44E-10	-6.88E-08
ILLRW	kg	1.14E-03	2.29E-06	9.60E-07	0.00E+00	1.86E-08	0.00E+00	6.65E-07	-8.16E-05
CRU	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MFR	kg	7.19E-03	0.00E+00	2.39E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MER	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EEE	MJ	2.16E-03	0.00E+00	4.47E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EET	MJ	1.01E-03	0.00E+00	1.51E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Optional Environmental Indicators									
PM	Disease Incidences	1.27E-07	2.79E-09	7.38E-10	0.00E+00	1.49E-11	0.00E+00	2.61E-10	-7.60E-09
IR	kBq U235 eq.	1.05E-01	1.93E-04	8.27E-05	0.00E+00	1.57E-06	0.00E+00	6.43E-05	-1.26E-02
ET	CTUe	2.77E+01	6.17E-01	3.02E-01	0.00E+00	5.01E-03	0.00E+00	2.79E-01	-6.93E-01
HT _C	CTUh	6.41E-10	1.45E-11	4.34E-12	0.00E+00	9.20E-14	0.00E+00	4.01E-12	-3.35E-11
HT _{nc}	CTUh	2.62E-08	4.03E-10	1.57E-10	0.00E+00	2.95E-12	0.00E+00	4.49E-10	-1.67E-09
LU	Pt	3.59E+00	1.40E-01	7.80E-03	0.00E+00	1.14E-03	0.00E+00	5.03E-03	-4.82E+01

Chelsea Blackout Group

Results per declared unit [one square meter of shade cloth]									
Indicator	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
EN 15804+A2									
GWP-total	kg CO ₂ eq.	3.55E+00	8.26E-02	5.19E-01	0.00E+00	1.01E-03	0.00E+00	8.44E-03	2.64E-01
GWP-fossil	kg CO ₂ eq.	3.82E+00	8.24E-02	8.25E-03	0.00E+00	1.01E-03	0.00E+00	8.45E-03	-1.06E-01
GWP-biogenic	kg CO ₂ eq.	-2.64E-01	5.96E-05	5.11E-01	0.00E+00	7.32E-07	0.00E+00	-1.15E-05	3.71E-01
GWP-luluc	kg CO ₂ eq.	1.06E-03	9.24E-05	2.80E-06	0.00E+00	1.13E-06	0.00E+00	3.09E-06	-3.51E-04
ODP	kg CFC 11 eq.	1.49E-08	9.97E-15	5.05E-15	0.00E+00	1.22E-16	0.00E+00	1.91E-14	-4.58E-13
AP	mol H ⁺ eq.	2.05E-02	4.02E-04	9.55E-05	0.00E+00	3.00E-06	0.00E+00	5.04E-05	-5.70E-04
EP-freshwater	kg P eq.	1.87E-05	4.00E-07	9.05E-07	0.00E+00	4.91E-09	0.00E+00	1.02E-05	-4.30E-06
EP-marine	kg N eq.	3.79E-03	2.02E-04	2.11E-05	0.00E+00	1.48E-06	0.00E+00	1.26E-05	-2.45E-04
EP-terrestrial	mol N eq.	4.12E-02	2.23E-03	4.25E-04	0.00E+00	1.63E-05	0.00E+00	1.38E-04	-2.34E-03
POCP	kg NMVOC eq.	1.16E-02	4.11E-04	5.17E-05	0.00E+00	2.92E-06	0.00E+00	3.83E-05	-6.60E-04
ADP-min.&metals	kg Sb eq.	2.08E-07	5.33E-09	2.37E-10	0.00E+00	6.54E-11	0.00E+00	4.73E-10	-3.78E-08
ADP-fossil	MJ	6.94E+01	1.07E+00	5.61E-02	0.00E+00	1.31E-02	0.00E+00	1.28E-01	-1.58E+00
WDP	m ³	7.38E-01	4.74E-03	2.13E-03	0.00E+00	5.82E-05	0.00E+00	4.36E-04	-2.28E-02
PCR 2019:14 (version 1.11) GWP-GHG									
GWP-GHG	kg CO ₂ eq.	3.78E+00	8.15E-02	3.46E-02	0.00E+00	9.98E-04	0.00E+00	8.28E-03	-1.04E-01
TRACI 2.1									
AP	kg SO ₂ eq.	1.79E-02	3.75E-04	1.15E-04	0.00E+00	2.79E-06	0.00E+00	4.33E-05	-5.26E-04
EP	kg N eq.	9.48E-04	3.32E-05	1.96E-05	0.00E+00	2.92E-07	0.00E+00	6.93E-05	-1.67E-04
GWPe	kg CO ₂ eq.	3.72E+00	8.10E-02	2.91E-02	0.00E+00	9.92E-04	0.00E+00	8.18E-03	-1.04E-01
GWPi	kg CO ₂ eq.	3.40E+00	8.10E-02	5.08E-01	0.00E+00	9.92E-04	0.00E+00	8.15E-03	2.68E-01
ODP	kg CFC-11 eq.	1.98E-08	2.10E-16	1.06E-16	0.00E+00	2.58E-18	0.00E+00	4.01E-16	-9.68E-15
Resources	MJ, surplus energy	7.98E+00	1.51E-01	7.07E-03	0.00E+00	1.86E-03	0.00E+00	1.64E-02	-1.63E-01

Results per declared unit [one square meter of shade cloth]									
Indicator	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
SFP	kg O ₃ eq.	2.32E-01	8.69E-03	6.40E-04	0.00E+00	6.37E-05	0.00E+00	7.89E-04	-1.34E-02
Biogenic Carbon Indicators									
BCRP	kg CO ₂ eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BCEP	kg CO ₂ eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BCRK	kg CO ₂ eq.	4.61E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BCEK	kg CO ₂ eq.	0.00E+00	0.00E+00	4.61E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BCEW	kg CO ₂ eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CCE	kg CO ₂ eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CCR	kg CO ₂ eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CWNR	kg CO ₂ eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Resource Use Indicators									
RPR _E	MJ LHV	3.13E+00	4.56E-02	4.96E-03	0.00E+00	5.60E-04	0.00E+00	1.53E-02	-7.52E+00
RPR _M	MJ LHV	4.99E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RPR _T	MJ LHV	8.12E+00	4.56E-02	4.96E-03	0.00E+00	5.60E-04	0.00E+00	1.53E-02	-7.52E+00
NRPR _E	MJ LHV	5.41E+01	1.15E+00	5.83E-02	0.00E+00	1.41E-02	0.00E+00	1.31E-01	-1.59E+00
NRPR _M	MJ LHV	1.58E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NRPR _T	MJ LHV	6.99E+01	1.15E+00	5.83E-02	0.00E+00	1.41E-02	0.00E+00	1.31E-01	-1.59E+00
SM	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RE	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	m ³	2.11E-02	1.56E-04	5.22E-05	0.00E+00	1.92E-06	0.00E+00	1.62E-05	-1.02E-03
Waste and Output Flow Indicators									
HWD	kg	3.81E-05	3.29E-12	7.59E-13	0.00E+00	4.04E-14	0.00E+00	3.25E-12	-5.32E-08
NHWD	kg	7.66E-02	9.96E-05	4.33E-02	0.00E+00	1.22E-06	0.00E+00	3.88E-01	-7.96E-03
RWD	kg	7.50E-04	3.28E-06	9.61E-07	0.00E+00	4.03E-08	0.00E+00	1.45E-06	-8.17E-05
HLRW	kg	8.34E-07	3.90E-09	1.13E-09	0.00E+00	4.78E-11	0.00E+00	1.61E-09	-6.88E-08
ILLRW	kg	7.49E-04	3.28E-06	9.60E-07	0.00E+00	4.03E-08	0.00E+00	1.44E-06	-8.16E-05
CRU	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MFR	kg	9.88E-03	0.00E+00	2.39E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MER	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EEE	MJ	4.64E-03	0.00E+00	4.47E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EET	MJ	2.18E-03	0.00E+00	1.51E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Optional Environmental Indicators									
PM	Disease Incidences	2.38E-07	4.01E-09	7.38E-10	0.00E+00	3.24E-11	0.00E+00	5.66E-10	-7.60E-09
IR	kBq U235 eq.	8.00E-02	2.77E-04	8.27E-05	0.00E+00	3.40E-06	0.00E+00	1.39E-04	-1.26E-02
ET	CTUe	3.74E+01	8.85E-01	3.02E-01	0.00E+00	1.09E-02	0.00E+00	6.06E-01	-6.93E-01
HT _C	CTUh	1.11E-09	2.08E-11	4.34E-12	0.00E+00	2.00E-13	0.00E+00	8.69E-12	-3.35E-11
HT _{nc}	CTUh	4.33E-08	5.78E-10	1.57E-10	0.00E+00	6.41E-12	0.00E+00	9.74E-10	-1.67E-09
LU	Pt	5.17E+00	2.01E-01	7.80E-03	0.00E+00	2.47E-03	0.00E+00	1.09E-02	-4.82E+01

EcoSheer Group

Results per declared unit [one square meter of shade cloth]									
Indicator	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
EN 15804+A2									
GWP-total	kg CO ₂ eq.	2.31E+00	7.20E-02	5.19E-01	0.00E+00	7.79E-04	0.00E+00	6.52E-03	2.64E-01
GWP-fossil	kg CO ₂ eq.	2.58E+00	7.19E-02	8.25E-03	0.00E+00	7.78E-04	0.00E+00	6.53E-03	-1.06E-01
GWP-biogenic	kg CO ₂ eq.	-2.71E-01	5.20E-05	5.11E-01	0.00E+00	5.65E-07	0.00E+00	-8.86E-06	3.71E-01
GWP-luluc	kg CO ₂ eq.	3.51E-04	8.06E-05	2.80E-06	0.00E+00	8.76E-07	0.00E+00	2.39E-06	-3.51E-04
ODP	kg CFC 11 eq.	1.49E-08	8.69E-15	5.05E-15	0.00E+00	9.45E-17	0.00E+00	1.47E-14	-4.58E-13
AP	mol H ⁺ eq.	2.07E-02	3.50E-04	9.55E-05	0.00E+00	2.32E-06	0.00E+00	3.89E-05	-5.70E-04
EP-freshwater	kg P eq.	1.69E-05	3.48E-07	9.05E-07	0.00E+00	3.79E-09	0.00E+00	7.84E-06	-4.30E-06
EP-marine	kg N eq.	2.70E-03	1.77E-04	2.11E-05	0.00E+00	1.14E-06	0.00E+00	9.74E-06	-2.45E-04
EP-terrestrial	mol N eq.	2.93E-02	1.95E-03	4.25E-04	0.00E+00	1.26E-05	0.00E+00	1.07E-04	-2.34E-03
POCP	kg NMVOC eq.	8.81E-03	3.59E-04	5.17E-05	0.00E+00	2.26E-06	0.00E+00	2.95E-05	-6.60E-04
ADP-min.&metals	kg Sb eq.	1.95E-07	4.65E-09	2.37E-10	0.00E+00	5.05E-11	0.00E+00	3.65E-10	-3.78E-08
ADP-fossil	MJ	5.00E+01	9.30E-01	5.61E-02	0.00E+00	1.01E-02	0.00E+00	9.90E-02	-1.58E+00
WDP	m ³	8.79E-01	4.14E-03	2.13E-03	0.00E+00	4.50E-05	0.00E+00	3.37E-04	-2.28E-02
PCR 2019:14 (version 1.11) GWP-GHG									
GWP-GHG	kg CO ₂ eq.	2.57E+00	7.11E-02	3.46E-02	0.00E+00	7.70E-04	0.00E+00	6.40E-03	-1.04E-01
TRACI 2.1									
AP	kg SO ₂ eq.	1.81E-02	3.27E-04	1.15E-04	0.00E+00	2.15E-06	0.00E+00	3.34E-05	-5.26E-04
EP	kg N eq.	6.72E-04	2.90E-05	1.96E-05	0.00E+00	2.25E-07	0.00E+00	5.35E-05	-1.67E-04
GWPe	kg CO ₂ eq.	2.52E+00	7.06E-02	2.91E-02	0.00E+00	7.66E-04	0.00E+00	6.32E-03	-1.04E-01
GWPi	kg CO ₂ eq.	2.19E+00	7.06E-02	5.08E-01	0.00E+00	7.66E-04	0.00E+00	6.29E-03	2.68E-01
ODP	kg CFC-11 eq.	1.98E-08	1.83E-16	1.06E-16	0.00E+00	1.99E-18	0.00E+00	3.10E-16	-9.68E-15
Resources	MJ, surplus energy	6.05E+00	1.32E-01	7.07E-03	0.00E+00	1.44E-03	0.00E+00	1.27E-02	-1.63E-01
SFP	kg O ₃ eq.	1.67E-01	7.57E-03	6.40E-04	0.00E+00	4.92E-05	0.00E+00	6.09E-04	-1.34E-02
Biogenic Carbon Indicators									
BCRP	kg CO ₂ eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BCEP	kg CO ₂ eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BCRK	kg CO ₂ eq.	4.61E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BCEK	kg CO ₂ eq.	0.00E+00	0.00E+00	4.61E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BCEW	kg CO ₂ eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CCE	kg CO ₂ eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CCR	kg CO ₂ eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CWNR	kg CO ₂ eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Resource Use Indicators									
RPR _E	MJ LHV	2.64E+00	3.98E-02	4.96E-03	0.00E+00	4.32E-04	0.00E+00	1.18E-02	-7.52E+00
RPR _M	MJ LHV	4.99E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RPR _T	MJ LHV	7.64E+00	3.98E-02	4.96E-03	0.00E+00	4.32E-04	0.00E+00	1.18E-02	-7.52E+00
NRPR _E	MJ LHV	3.48E+01	9.98E-01	5.83E-02	0.00E+00	1.09E-02	0.00E+00	1.01E-01	-1.59E+00
NRPR _M	MJ LHV	1.57E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NRPR _T	MJ LHV	5.06E+01	9.98E-01	5.83E-02	0.00E+00	1.09E-02	0.00E+00	1.01E-01	-1.59E+00

Results per declared unit [one square meter of shade cloth]									
Indicator	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
SM	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RE	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	m ³	2.04E-02	1.36E-04	5.22E-05	0.00E+00	1.48E-06	0.00E+00	1.25E-05	-1.02E-03
Waste and Output Flow Indicators									
HWD	kg	3.81E-05	2.87E-12	7.59E-13	0.00E+00	3.12E-14	0.00E+00	2.51E-12	-5.32E-08
NHWD	kg	5.59E-02	8.69E-05	4.33E-02	0.00E+00	9.45E-07	0.00E+00	3.00E-01	-7.96E-03
RWD	kg	3.49E-04	2.86E-06	9.61E-07	0.00E+00	3.11E-08	0.00E+00	1.12E-06	-8.17E-05
HLRW	kg	4.13E-07	3.40E-09	1.13E-09	0.00E+00	3.69E-11	0.00E+00	1.25E-09	-6.88E-08
ILLRW	kg	3.48E-04	2.86E-06	9.60E-07	0.00E+00	3.11E-08	0.00E+00	1.11E-06	-8.16E-05
CRU	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MFR	kg	8.75E-03	0.00E+00	2.39E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MER	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EEE	MJ	3.59E-03	0.00E+00	4.47E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EET	MJ	1.69E-03	0.00E+00	1.51E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Optional Environmental Indicators									
PM	Disease Incidences	2.13E-07	3.50E-09	7.38E-10	0.00E+00	2.50E-11	0.00E+00	4.37E-10	-7.60E-09
IR	kBq U235 eq.	3.95E-02	2.42E-04	8.27E-05	0.00E+00	2.63E-06	0.00E+00	1.08E-04	-1.26E-02
ET	CTUe	3.53E+01	7.72E-01	3.02E-01	0.00E+00	8.39E-03	0.00E+00	4.68E-01	-6.93E-01
HT _C	CTUh	7.99E-10	1.81E-11	4.34E-12	0.00E+00	1.54E-13	0.00E+00	6.71E-12	-3.35E-11
HT _{nc}	CTUh	3.13E-08	5.04E-10	1.57E-10	0.00E+00	4.95E-12	0.00E+00	7.52E-10	-1.67E-09
LU	Pt	3.48E+00	1.75E-01	7.80E-03	0.00E+00	1.90E-03	0.00E+00	8.43E-03	-4.82E+01

EcoVeil Group

Results per declared unit [one square meter of shade cloth]									
Indicator	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
EN 15804+A2									
GWP-total	kg CO ₂ eq.	3.73E+00	9.09E-02	5.19E-01	0.00E+00	1.19E-03	0.00E+00	9.96E-03	2.64E-01
GWP-fossil	kg CO ₂ eq.	3.98E+00	9.08E-02	8.25E-03	0.00E+00	1.19E-03	0.00E+00	9.97E-03	-1.06E-01
GWP-biogenic	kg CO ₂ eq.	-2.58E-01	6.56E-05	5.11E-01	0.00E+00	8.64E-07	0.00E+00	-1.35E-05	3.71E-01
GWP-luluc	kg CO ₂ eq.	1.31E-03	1.02E-04	2.80E-06	0.00E+00	1.34E-06	0.00E+00	3.65E-06	-3.51E-04
ODP	kg CFC 11 eq.	1.49E-08	1.10E-14	5.05E-15	0.00E+00	1.44E-16	0.00E+00	2.25E-14	-4.58E-13
AP	mol H ⁺ eq.	2.15E-02	4.42E-04	9.55E-05	0.00E+00	3.54E-06	0.00E+00	5.94E-05	-5.70E-04
EP-freshwater	kg P eq.	1.92E-05	4.40E-07	9.05E-07	0.00E+00	5.79E-09	0.00E+00	1.20E-05	-4.30E-06
EP-marine	kg N eq.	3.99E-03	2.23E-04	2.11E-05	0.00E+00	1.74E-06	0.00E+00	1.49E-05	-2.45E-04
EP-terrestrial	mol N eq.	4.31E-02	2.46E-03	4.25E-04	0.00E+00	1.92E-05	0.00E+00	1.63E-04	-2.34E-03
POCP	kg NMVOC eq.	1.22E-02	4.53E-04	5.17E-05	0.00E+00	3.45E-06	0.00E+00	4.51E-05	-6.60E-04
ADP-min.&metals	kg Sb eq.	1.72E-07	5.87E-09	2.37E-10	0.00E+00	7.72E-11	0.00E+00	5.58E-10	-3.78E-08
ADP-fossil	MJ	7.49E+01	1.17E+00	5.61E-02	0.00E+00	1.55E-02	0.00E+00	1.51E-01	-1.58E+00
WDP	m ³	7.76E-01	5.22E-03	2.13E-03	0.00E+00	6.87E-05	0.00E+00	5.14E-04	-2.28E-02

Results per declared unit [one square meter of shade cloth]									
Indicator	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
PCR 2019:14 (version 1.11) GWP-GHG									
GWP-GHG	kg CO ₂ eq.	3.96E+00	8.98E-02	3.46E-02	0.00E+00	1.18E-03	0.00E+00	9.77E-03	-1.04E-01
TRACI 2.1									
AP	kg SO ₂ eq.	1.85E-02	4.13E-04	1.15E-04	0.00E+00	3.29E-06	0.00E+00	5.11E-05	-5.26E-04
EP	kg N eq.	9.37E-04	3.66E-05	1.96E-05	0.00E+00	3.44E-07	0.00E+00	8.18E-05	-1.67E-04
GWP _e	kg CO ₂ eq.	3.89E+00	8.92E-02	2.91E-02	0.00E+00	1.17E-03	0.00E+00	9.65E-03	-1.04E-01
GWP _i	kg CO ₂ eq.	3.57E+00	8.92E-02	5.08E-01	0.00E+00	1.17E-03	0.00E+00	9.61E-03	2.68E-01
ODP	kg CFC-11 eq.	1.98E-08	2.31E-16	1.06E-16	0.00E+00	3.04E-18	0.00E+00	4.73E-16	-9.68E-15
Resources	MJ, surplus energy	8.21E+00	1.67E-01	7.07E-03	0.00E+00	2.19E-03	0.00E+00	1.94E-02	-1.63E-01
SFP	kg O ₃ eq.	2.44E-01	9.56E-03	6.40E-04	0.00E+00	7.51E-05	0.00E+00	9.31E-04	-1.34E-02
Biogenic Carbon Indicators									
BCRP	kg CO ₂ eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BCEP	kg CO ₂ eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BCRK	kg CO ₂ eq.	4.61E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BCEK	kg CO ₂ eq.	0.00E+00	0.00E+00	4.61E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BCEW	kg CO ₂ eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CCE	kg CO ₂ eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CCR	kg CO ₂ eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CWNR	kg CO ₂ eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Resource Use Indicators									
RPR _E	MJ LHV	4.07E+00	5.02E-02	4.96E-03	0.00E+00	6.61E-04	0.00E+00	1.80E-02	-7.52E+00
RPR _M	MJ LHV	4.99E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RPR _T	MJ LHV	9.06E+00	5.02E-02	4.96E-03	0.00E+00	6.61E-04	0.00E+00	1.80E-02	-7.52E+00
NRPR _E	MJ LHV	5.15E+01	1.26E+00	5.83E-02	0.00E+00	1.66E-02	0.00E+00	1.54E-01	-1.59E+00
NRPR _M	MJ LHV	2.36E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NRPR _T	MJ LHV	7.51E+01	1.26E+00	5.83E-02	0.00E+00	1.66E-02	0.00E+00	1.54E-01	-1.59E+00
SM	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RE	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	m ³	2.24E-02	1.72E-04	5.22E-05	0.00E+00	2.27E-06	0.00E+00	1.91E-05	-1.02E-03
Waste and Output Flow Indicators									
HWD	kg	3.81E-05	3.63E-12	7.59E-13	0.00E+00	4.77E-14	0.00E+00	3.84E-12	-5.32E-08
NHWD	kg	8.88E-02	1.10E-04	4.33E-02	0.00E+00	1.44E-06	0.00E+00	4.58E-01	-7.96E-03
RWD	kg	8.60E-04	3.62E-06	9.61E-07	0.00E+00	4.76E-08	0.00E+00	1.71E-06	-8.17E-05
HLRW	kg	9.68E-07	4.29E-09	1.13E-09	0.00E+00	5.64E-11	0.00E+00	1.90E-09	-6.88E-08
ILLRW	kg	8.59E-04	3.61E-06	9.60E-07	0.00E+00	4.75E-08	0.00E+00	1.70E-06	-8.16E-05
CRU	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MFR	kg	4.83E-03	0.00E+00	2.39E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MER	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EEE	MJ	5.47E-03	0.00E+00	4.47E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EET	MJ	2.57E-03	0.00E+00	1.51E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Results per declared unit [one square meter of shade cloth]									
Indicator	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
Optional Environmental Indicators									
PM	Disease Incidences	2.60E-07	4.41E-09	7.38E-10	0.00E+00	3.82E-11	0.00E+00	6.68E-10	-7.60E-09
IR	kBq U235 eq.	8.84E-02	3.05E-04	8.27E-05	0.00E+00	4.01E-06	0.00E+00	1.65E-04	-1.26E-02
ET	CTUe	4.50E+01	9.75E-01	3.02E-01	0.00E+00	1.28E-02	0.00E+00	7.15E-01	-6.93E-01
HT _C	CTUh	1.30E-09	2.29E-11	4.34E-12	0.00E+00	2.36E-13	0.00E+00	1.03E-11	-3.35E-11
HT _{nc}	CTUh	4.92E-08	6.36E-10	1.57E-10	0.00E+00	7.56E-12	0.00E+00	1.15E-09	-1.67E-09
LU	Pt	5.83E+00	2.21E-01	7.80E-03	0.00E+00	2.91E-03	0.00E+00	1.29E-02	-4.82E+01

Equinox Blackout Group

Results per declared unit [one square meter of shade cloth]									
Indicator	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
EN 15804+A2									
GWP-total	kg CO ₂ eq.	4.66E+00	9.57E-02	5.19E-01	0.00E+00	1.29E-03	0.00E+00	1.08E-02	2.64E-01
GWP-fossil	kg CO ₂ eq.	4.91E+00	9.55E-02	8.25E-03	0.00E+00	1.29E-03	0.00E+00	1.08E-02	-1.06E-01
GWP-biogenic	kg CO ₂ eq.	-2.56E-01	6.91E-05	5.11E-01	0.00E+00	9.39E-07	0.00E+00	-1.47E-05	3.71E-01
GWP-luluc	kg CO ₂ eq.	1.38E-03	1.07E-04	2.80E-06	0.00E+00	1.46E-06	0.00E+00	3.96E-06	-3.51E-04
ODP	kg CFC 11 eq.	1.49E-08	1.15E-14	5.05E-15	0.00E+00	1.57E-16	0.00E+00	2.44E-14	-4.58E-13
AP	mol H ⁺ eq.	2.38E-02	4.65E-04	9.55E-05	0.00E+00	3.85E-06	0.00E+00	6.46E-05	-5.70E-04
EP-freshwater	kg P eq.	2.06E-05	4.63E-07	9.05E-07	0.00E+00	6.29E-09	0.00E+00	1.30E-05	-4.30E-06
EP-marine	kg N eq.	4.52E-03	2.35E-04	2.11E-05	0.00E+00	1.89E-06	0.00E+00	1.62E-05	-2.45E-04
EP-terrestrial	mol N eq.	4.91E-02	2.59E-03	4.25E-04	0.00E+00	2.09E-05	0.00E+00	1.77E-04	-2.34E-03
POCP	kg NMVOC eq.	1.36E-02	4.77E-04	5.17E-05	0.00E+00	3.75E-06	0.00E+00	4.91E-05	-6.60E-04
ADP-min.&metals	kg Sb eq.	2.47E-07	6.17E-09	2.37E-10	0.00E+00	8.39E-11	0.00E+00	6.06E-10	-3.78E-08
ADP-fossil	MJ	8.58E+01	1.24E+00	5.61E-02	0.00E+00	1.68E-02	0.00E+00	1.64E-01	-1.58E+00
WDP	m ³	9.82E-01	5.50E-03	2.13E-03	0.00E+00	7.47E-05	0.00E+00	5.59E-04	-2.28E-02
PCR 2019:14 (version 1.11) GWP-GHG									
GWP-GHG	kg CO ₂ eq.	4.87E+00	9.45E-02	3.46E-02	0.00E+00	1.28E-03	0.00E+00	1.06E-02	-1.04E-01
TRACI 2.1									
AP	kg SO ₂ eq.	2.07E-02	4.35E-04	1.15E-04	0.00E+00	3.57E-06	0.00E+00	5.55E-05	-5.26E-04
EP	kg N eq.	1.14E-03	3.85E-05	1.96E-05	0.00E+00	3.74E-07	0.00E+00	8.89E-05	-1.67E-04
GWP _e	kg CO ₂ eq.	4.80E+00	9.39E-02	2.91E-02	0.00E+00	1.27E-03	0.00E+00	1.05E-02	-1.04E-01
GWP _i	kg CO ₂ eq.	4.48E+00	9.39E-02	5.08E-01	0.00E+00	1.27E-03	0.00E+00	1.05E-02	2.68E-01
ODP	kg CFC-11 eq.	1.98E-08	2.43E-16	1.06E-16	0.00E+00	3.31E-18	0.00E+00	5.14E-16	-9.68E-15
Resources	MJ, surplus energy	9.67E+00	1.76E-01	7.07E-03	0.00E+00	2.39E-03	0.00E+00	2.11E-02	-1.63E-01
SFP	kg O ₃ eq.	2.76E-01	1.01E-02	6.40E-04	0.00E+00	8.17E-05	0.00E+00	1.01E-03	-1.34E-02
Biogenic Carbon Indicators									
BCRP	kg CO ₂ eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BCEP	kg CO ₂ eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BCKR	kg CO ₂ eq.	4.61E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BCEK	kg CO ₂ eq.	0.00E+00	0.00E+00	4.61E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BCEW	kg CO ₂ eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Results per declared unit [one square meter of shade cloth]									
Indicator	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
CCE	kg CO ₂ eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CCR	kg CO ₂ eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CWNR	kg CO ₂ eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Resource Use Indicators									
RPR _E	MJ LHV	5.30E+00	5.29E-02	4.96E-03	0.00E+00	7.18E-04	0.00E+00	1.96E-02	-7.52E+00
RPR _M	MJ LHV	4.99E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RPR _T	MJ LHV	1.03E+01	5.29E-02	4.96E-03	0.00E+00	7.18E-04	0.00E+00	1.96E-02	-7.52E+00
NRPR _E	MJ LHV	7.24E+01	1.33E+00	5.83E-02	0.00E+00	1.80E-02	0.00E+00	1.67E-01	-1.59E+00
NRPR _M	MJ LHV	1.42E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NRPR _T	MJ LHV	8.66E+01	1.33E+00	5.83E-02	0.00E+00	1.80E-02	0.00E+00	1.67E-01	-1.59E+00
SM	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RE	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	m ³	2.85E-02	1.81E-04	5.22E-05	0.00E+00	2.46E-06	0.00E+00	2.08E-05	-1.02E-03
Waste and Output Flow Indicators									
HWD	kg	3.81E-05	3.82E-12	7.59E-13	0.00E+00	5.18E-14	0.00E+00	4.17E-12	-5.32E-08
NHWD	kg	1.00E-01	1.15E-04	4.33E-02	0.00E+00	1.57E-06	0.00E+00	4.98E-01	-7.96E-03
RWD	kg	1.06E-03	3.80E-06	9.61E-07	0.00E+00	5.17E-08	0.00E+00	1.85E-06	-8.17E-05
HLRW	kg	1.17E-06	4.51E-09	1.13E-09	0.00E+00	6.13E-11	0.00E+00	2.07E-09	-6.88E-08
ILLRW	kg	1.06E-03	3.80E-06	9.60E-07	0.00E+00	5.16E-08	0.00E+00	1.85E-06	-8.16E-05
CRU	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MFR	kg	8.71E-03	0.00E+00	2.39E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MER	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EEE	MJ	5.94E-03	0.00E+00	4.47E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EET	MJ	2.80E-03	0.00E+00	1.51E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Optional Environmental Indicators									
PM	Disease Incidences	2.78E-07	4.65E-09	7.38E-10	0.00E+00	4.16E-11	0.00E+00	7.26E-10	-7.60E-09
IR	kBq U235 eq.	1.10E-01	3.21E-04	8.27E-05	0.00E+00	4.36E-06	0.00E+00	1.79E-04	-1.26E-02
ET	CTUe	4.57E+01	1.03E+00	3.02E-01	0.00E+00	1.39E-02	0.00E+00	7.77E-01	-6.93E-01
HT _C	CTUh	1.38E-09	2.41E-11	4.34E-12	0.00E+00	2.56E-13	0.00E+00	1.11E-11	-3.35E-11
HT _{nc}	CTUh	5.30E-08	6.70E-10	1.57E-10	0.00E+00	8.22E-12	0.00E+00	1.25E-09	-1.67E-09
LU	Pt	6.40E+00	2.33E-01	7.80E-03	0.00E+00	3.16E-03	0.00E+00	1.40E-02	-4.82E+01

Additional environmental information

The technical datasheet for these products can be found on Mecho's website at:

<https://www.mechoshade.com/resources/literature/>

Additional Certifications include Material SDSs, HPDs, Declare Labels, Greenguard Certifications, Material Health Declarations, and Cradle to Cradle Certifications. Individual certifications are also available at <https://www.mechoshade.com/resources/literature/>.

Differences versus previous versions:

2023-07-31 Version 1

2023-09-18 Version 1.1

Editorial change: Corrected order of EN15804+A2 GWP Impact Categories.

References

General Programme Instructions of the International EPD[®] System. Version 4.0.

EPD International. (2023). *PCR 2019:14. Construction products. Version 1.11*

CEN. (2019). *EN 15804+A2: Sustainability of construction works – Environmental product declarations – Core rules for the product category of construction products*. European Committee for Standardization.

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

ISO. (2006). *ISO 14040/Amd 1:2020: Environmental management - Life cycle assessment - Principles and framework*. Geneva: International Organization for Standardization.

ISO. (2006). *ISO 14044/Amd 1:2017/Amd 2:2020: Environmental Management - Life cycle assessment - Requirements and Guidelines*. Geneva: International Organization for Standardization.

ISO. (2017). *ISO 21930: Sustainability in buildings and civil engineering works - Core rules for environmental product declarations of construction products and services*. Geneva: International Organization for Standardization.

Sphera Managed LCA Content. (2023). *Key Parameters of Power Plants >50 MW*. Retrieved from Sphera Managed LCA Content Search: https://sphera.com/2023/xml-data/external_docs/energy_electricity_grid_mix_ef_mx.jpg

Sphera Managed LCA Content. (2023). *Process data set: Electricity grid mix; AC, technology mix; consumption mix, to consumer; <1kV (en)*. Retrieved from Sphera Managed LCA Content Search: <https://sphera.com/2023/xml-data/processes/8c949961-24d2-42f6-ba8c-3511598a8ea3.xml>

U.S. EPA. (2023). *U.S. EPA EGRID Power Profiler*. Retrieved from United States EPA EGRID Power Profiler: <https://www.epa.gov/egrid/power-profiler#/>

United States Environmental Protection Agency. (2020). *Advancing Sustainable Materials Management 2018 Factsheet. Assessing Trends in Materials Generation and Management in the United States*. United States Environmental Protection Agency.

US EPA. (2012). *TRACI: The Tool for the Reduction and Assessment of Chemical and Other Environmental Impacts. Version 2.1 - User Guide*. Retrieved from <https://nepis.epa.gov/Adobe/PDF/P100HN53.pdf>

