

# Environmental Product Declaration



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

## GreenScreen Evolve® GreenScreen Revive®

from

**Mermet USA**



*Sun Control Textiles™*

Programme:	The International EPD System, <a href="http://www.environdec.com">www.environdec.com</a>
Programme operator:	EPD International AB
Licensee:	EPD North America ( <a href="http://www.epdna.com">www.epdna.com</a> )
Type of EPD:	EPD of multiple products, based on a representative product
EPD registration number:	EPD-IES-0029641:001
Version date:	2026-04-01
Validity date:	2031-03-31

*An EPD may be updated or depublished if conditions change. To find the latest version of the EPD and to confirm its validity, see [www.environdec.com](http://www.environdec.com)*



## GENERAL INFORMATION

Programme Information	
<b>Programme:</b>	The International EPD® System
<b>Address:</b>	EPD International AB Box 210 60 SE-100 31 Stockholm Sweden
<b>Website:</b>	<a href="http://www.environdec.com">www.environdec.com</a>
<b>E-mail:</b>	<a href="mailto:support@environdec.com">support@environdec.com</a>

Product Category Rules (PCR)
<b>CEN standard EN 15804 and ISO 21930 serve as the Core Product Category Rules (PCR)</b>
<b>Product Category Rules (PCR):</b> PCR 2019:14 Construction products (EN 15804:A2) (v2.0.1)
<b>PCR review was conducted by:</b> The Technical Committee of the International EPD System. A full list of members is available on <a href="http://www.environdec.com">www.environdec.com</a> . The review panel may be contacted via <a href="mailto:support@environdec.com">support@environdec.com</a> . Rob Rouwette (chair), Noa Meron (co-chair)

Third-party Verification
Independent third-party verification of the declaration and data, according to ISO 14025:2006, via:
<input checked="" type="checkbox"/> <b>Individual EPD verification without a pre-verified LCA/EPD tool</b> Third-party verifier: James Mellentine, Thrive ESG Approved by: 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 published in different EPD programmes, may not be comparable. For two EPDs to be comparable, they shall be based on the same PCR (including the same first-digit 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 identical scope in terms of included life-cycle stages (unless the excluded life-cycle stage is demonstrated to be insignificant); apply identical impact assessment methods (including the same version of characterisation factors); and be valid at the time of comparison. For further information about comparability, see EN 15804 and ISO 14025.

## INFORMATION ABOUT EPD OWNER

Owner of the EPD: Mermet USA

Address: 5970 N Main Street Cowpens, SC, 29330

Contact: Nathan Wintermute [nathan.wintermute@mermetusa.com](mailto:nathan.wintermute@mermetusa.com)

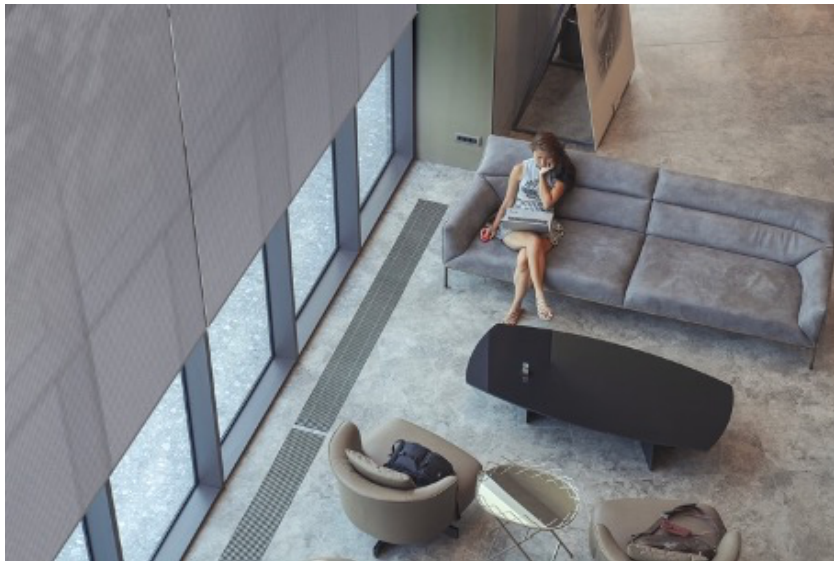
Address and contact information of the LCA practitioner commissioned by the EPD owner: Rose Maylen ([rose@wapsustainability.com](mailto:rose@wapsustainability.com)) and Isabel Oskwarek ([isabel@wapsustainability.com](mailto:isabel@wapsustainability.com))

Description of the organisation: Mermet USA is a manufacturer of premium solar screen fabrics since 1976. With 40 years of experience mastering the engineering and design of sun control textiles, Mermet USA's mission is to provide customers with shading solutions that enhance solar protection, energy savings, durability, aesthetics, and acoustical comfort.

## PRODUCT INFORMATION

Product name: GreenScreen Evolve® 3%, GreenScreen Revive® 1%, and GreenScreen Revive® 5%

Product identification: CSI division 12 24 13



UN CPC code: 281

### Product description:

GreenScreen Evolve® is a translucent polyester fabric that contains 78% recycled content made from 100% post-industrial and consumer plastic waste. GreenScreen Evolve® is available with an openness factor of 3%.

GreenScreen Revive® is a completely recyclable, 100% polyester fabric composed of 89% recycled content from 100% post-industrial and consumer plastic waste. GreenScreen Revive® is available with openness factors of 1% and 5%

Name and location of production site(s): Schuylkill County, Pennsylvania, USA

The location of the final process in direct control of the trader: Cowpens, South Carolina, USA

	Evolve® 3%	Revive® 1%	Revive® 5%
Width	118" (300 cm)	118" (300 cm)	118" (300 cm)
Fire	NFPA 701 TM#1, California U.S. Title 19 CAN/ULC-S109	NFPA 701 TM#1, California U.S. Title 19 CAN/ULC-S109	NFPA 701 TM#1, California U.S. Title 19 CAN/ULC-S109
Bacterial & fungal	ASTM E2180, ASTM G21	ASTM G21	ASTM G21

**Product Stage (A1-A3):**

During manufacturing, yarns are wound onto individual bobbins. Metered bobbins are used to prepare a warp beam. Additional bobbins of weft yarn are woven in between the warp yarns on a loom to produce the desired pattern. The woven fabric is heated to set the yarns in place. Next the fabric is inspected for defects and cut into individual rolls wound onto a cardboard core tube. The rolls are wrapped in plastic film and packaged in cardboard shipping tube for distribution.

The GWP-GHG value for the electricity dataset used during manufacturing is 0.396 kg CO<sub>2</sub>-eq/kWh. A regional residual grid mix dataset was used. Details on the electricity mix used for manufacturing are as follows:

Source	Quantity [%]	GWP-GHG [kg CO <sub>2</sub> -eq/kWh]
Natural gas	53.3	0.396
Nuclear	36.4	
Hard Coal	9.9	
Heavy fuel oil	<1	
Lignite	<1	
Coal Gases	<1	

## CONTENT DECLARATION

	Polyester	Dye	Finishing Chemicals
<b>Revive® 1%</b>			
Input (kg/unit)	1.73E-01	7.79E-03	1.89E-02
Recycled Content, post-consumer (%)	89%	0%	0%
Biogenic Carbon Content (kg C/unit / kg CO <sub>2</sub> eq/unit)	0/0	0/0	0/0
<b>Revive® 5%</b>			
Input (kg/unit)	1.48E-01	6.66E-03	1.61E-02
Recycled Content, post-consumer (%)	89%	0%	0%
Biogenic Carbon Content (kg C/unit / kg CO <sub>2</sub> eq/unit)	0/0	0/0	0/0
<b>Evolve® 3%</b>			
Input (kg/unit)	2.78E-01	1.71E-03	2.08E-02
Recycled Content, post-consumer (%)	78%	0%	0%

	Polyester	Dye	Finishing Chemicals
Biogenic Carbon Content (kg C/unit / kg CO2eq/unit)	0/0	0/0	0/0

Packaging materials	Mass, kg	Evolve® 3% Mass-% (versus the product)	Revive® 1% Mass-% (versus the product)	Revive® 5% Mass-% (versus the product)	Biogenic material, kg C/declared unit	Biogenic material, kg CO2eq/declared unit
Cardboard	2.62E-02	9%	13%	15%	1.13E-02	4.13E-02
Plastic Film	1.31E-03	<1%	<1%	<1%	0	0
TOTAL	2.75E-02	9%	14%	16%	1.13E-02	4.13E-02

1 kg biogenic carbon in the product/packaging is equivalent to the uptake of 44/12 kg of CO<sub>2</sub>.

No substances in the product are on the Candidate List of Substances of Very High Concern (SVHC) which exceed the limits for registration with the European Chemicals Agency.

## LCA INFORMATION

Declared unit: 1 square meter. Mass per declared unit is below.

	Mass per Declared unit [kg]
Evolve® 3%	0.30
Revive® 1%	0.20
Revive® 5%	0.17

Time representativeness: 2024

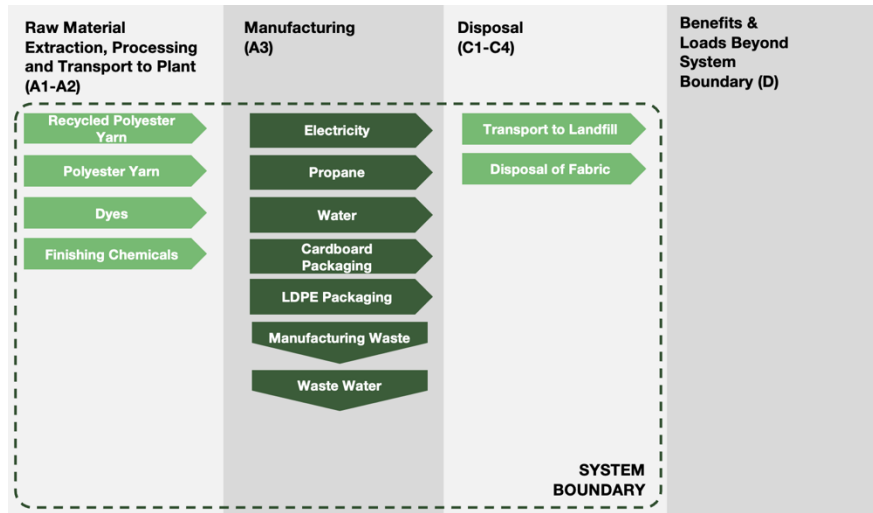
Geographical scope: United States (A1-A3, C1-C4, D), Asia (A1-A2)

Database(s) and LCA software used: Sphera Managed LCA Content 2025.2, Sphera LCA for Experts 10.9.4.13

Description of system boundaries: Cradle-to-Gate with modules C1-C4, and D.

### System boundary:

This LCA is a cradle-to-gate with options. The effect of infrastructure along the supply chain, as well as that of capital goods and other multi-use machines and tools has been excluded from the study. An overview of the system boundary is shown in the figure below, and a summary of the life cycle stages included in this study is presented in the table below.



In this stage, the product is delivered to the Mermet distribution center in South Carolina, U.S. Scenarios for delivery to customers are outside the scope of this study.

	<b>Evolve® 3%</b>	<b>Revive® 1%</b>	<b>Revive® 5%</b>
Vehicle Type	Heavy Heavy-duty Diesel Truck / 53,333 lb payload – 8b		
Fuel Efficiency [L/100km]	42		
Fuel Type	Diesel		
Distance [km]	966		
Capacity Utilization [%]	67%		
Weight of Products Transported [kg]	3.28E-01	2.28E-01	1.98E0-01

**Delivery and Installation (A4-A5):**

Impacts associated with customer distribution and installation are outside of the selected system boundary.

**Use Stage (B1-B7):**

Impacts associated with use are outside of the selected system boundary.

**End-of-Life (C1-C4):**

In this stage, the product is transported to the end-of-life facility and disposed. The assumed end-of-life scenario for all products under study is waste to landfill.

The table below shows the parameters for the end-of-life scenario utilized in the model. All waste has been classified according to the PCR and regional standards.

<b>End of Life Details</b>	<b>Evolve® 3%</b>	<b>Revive® 1%</b>	<b>Revive® 5%</b>
Collected as mixed construction waste [kg]	3.00E-01	1.70E-01	2.00E-01
Waste to Landfill [kg]	3.00E-01	1.70E-01	2.00E-01
Distance to Landfill [km]	80		

Modules declared, geographical scope, share of primary data (in GWP-GHG results) and data variation (in GWP-GHG results):

	Product stage			Distribution/ installation stage		Use stage							End-of-life stage				Beyond product life cycle
	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	ND	ND	ND	ND	ND	ND	ND	ND	ND	X	X	X	X	X
Geography	NA/Asia	NA/Asia	NA	-	-	-	-	-	-	-	-	-	NA	NA	NA	NA	NA
Share of primary data	12%			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variation – products	7% - 39%			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variation – sites	N/A			-	-	-	-	-	-	-	-	-	-	-	-	-	-

Cut-Off Criteria:

Life cycle inventory (LCI) data shall include a minimum of 99% of total inflows per unit process and a minimum of 95% of total inflows per life-cycle stages. Cumulative excluded material inputs, energy inputs, and environmental impacts shall not exceed 5% based on total weight, energy use, or environmental impact of the declared unit. All available data shall be used, and cut-offs shall not be done to conceal or misrepresent any data. If less than 100% of inputs or outputs are accounted for in the available data, proxy data should be used to achieve 100% data completeness. No flows were intentionally omitted from the scope of the study.

Allocation:

General principles of allocation were based on ISO 14040/44. There are no products other than the product under study that are produced as part of the specific manufacturing processes under study. There are, however, other products produced at the manufacturing facility. To derive a per-unit value for manufacturing inputs such as electricity, thermal energy and water, allocation based on total production by area was adopted.

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. Under this method, impacts and benefits associated with the previous life of a raw material from recycled stock are excluded from the system boundary. Additionally, impacts and benefits associated with secondary functions of materials at end of life are also excluded (i.e., production into a third life or energy generation from the incineration

plant). The study does include the impacts associated with reprocessing and preparation of recycled materials that are part of the bill of materials of the products under study.

Data Sources:

Primary data were used where available, including A2 transport data. When primary data does not exist, secondary data for raw material production are obtained from the MLC database.

Data Quality:

Primary data was collected directly from the manufacturer and suppliers, while background data was sourced from Sphera MLC Database CUP 2025.1.

The quality of the data has been assessed according to EN 15804:2012+A2:2019, Annex E, and EN 15941. Using the semi-quantitative evaluation criteria for data quality (DQR) proposed by the European Commission in its Environmental Footprint Guide, the following results were obtained:

- Temporal representativeness (TiR): Very good.
- Geographical representativeness (GeR): Fair.
- Technological representativeness (TeR): Good.

Overall, the data quality is rated between “good” and “very good.” No datasets assessed were rated “very poor.” The assessed datasets together represent more than 80% of the results of each declared environmental impact indicator, ensuring that the EPD is based on sufficiently robust and reliable data.

Process	Source type	Source	Reference year	Data category	Share of GWP-GHG results for A1-A3 (uncut/cut)	Share of Primary Data
Extraction and production of raw materials	Database	Sphera MLC 2025.2	2020-2026	Secondary data	80%/65%	0%
Transportation of raw materials	Collected data	Manufacturer	2024	Primary data	6%/5%	100%
Generation of electricity used in manufacturing of product	Database	Sphera MLC 2025.2	2024	Primary	2%/20%	100%
Other manufacturing inputs including natural gas, water, and waste	Database	Sphera MLC 2025.2	2022-2024	Secondary data	7%/6%	0%
Extraction and production of packaging materials	Database	Sphera MLC 2025.2	2024	Secondary data	1%/1%	0%
Transport to EPD owner	Collected data	Manufacturer	2024	Primary data	4%/3%	100%
<b>Total share of primary data, of GWP-GHG results for A1-A3 (Contribution * Share of primary data) (Uncut/Cut)</b>						<b>12%/28%</b>

Recycled content in both the uncut and cut variations of the product contributed to over 10% of GWP-GHG results. For the uncut product, recycled material inputs contributed to 24% of A1-A3 GWP-GHG results; for the cut product, this contribution was 19%. The GWP-GHG intensity of the recycled content was 5.72E-04 kgCO2eq/tonne for the uncut product, and 6.29E-04 kg CO2eq/tonne for the cut product.

Geographic Coverage:

The geographical scope of the manufacturing portion of the life cycle is North America. The geographical scope of the raw material acquisition is North America and Asia. Product end of life is within North America.

Time Coverage:

This temporal scope is production during calendar year 2024.

Technological Coverage:

The technological scope is the specific technology the company uses in manufacturing their product.

## ENVIRONMENTAL PERFORMANCE

The environmental performance results are relative expressions and do not predict impacts on category endpoints, the exceeding of thresholds, safety margins or risks.

The results of the end-of-life stage (modules C1-C4) should be considered when using the results of the product stage (modules A1-A3).

### LCA results for GreenScreen Evolve® 3% (Uncut Fabric)

#### Mandatory impact category indicators according to EN 15804

Indicator	Unit	A1-A3	C1	C2	C3	C4	D
<i>IPCC</i>							
GWPI	kg CO <sub>2</sub> eq.	8.04E-01	0.00E+00	1.97E-03	0.00E+00	6.64E-03	0.00E+00
GWPe	kg CO <sub>2</sub> eq.	7.49E-01	0.00E+00	1.96E-03	0.00E+00	6.64E-03	0.00E+00
<i>TRACI</i>							
AP	kg SO <sub>2</sub> eq	2.50E-03	0.00E+00	5.59E-06	0.00E+00	3.39E-05	0.00E+00
EPfw	kg P eq	1.60E-05	0.00E+00	1.60E-09	0.00E+00	3.99E-06	0.00E+00
EPm	kg N eq	1.33E-03	0.00E+00	5.04E-06	0.00E+00	1.69E-05	0.00E+00
EP	kg N eq	6.20E-04	0.00E+00	4.78E-07	0.00E+00	5.33E-05	0.00E+00
ODP	kg CFC 11 eq	3.86E-12	0.00E+00	5.57E-16	0.00E+00	2.02E-14	0.00E+00
SFP	kg O <sub>3</sub> eq	4.74E-02	0.00E+00	1.25E-04	0.00E+00	6.07E-04	0.00E+00
<i>EN 15804+A2 (EF 3.1)</i>							
GWP, total	kg CO <sub>2</sub> eq	8.04E-01	0.00E+00	1.97E-03	0.00E+00	6.65E-03	0.00E+00
GWP, fossil	kg CO <sub>2</sub> eq	7.40E-01	0.00E+00	1.96E-03	0.00E+00	6.63E-03	0.00E+00
GWP, biogenic	kg CO <sub>2</sub> eq	6.34E-02	0.00E+00	1.13E-05	0.00E+00	1.14E-05	0.00E+00
GWP, land use	kg CO <sub>2</sub> eq	6.98E-04	0.00E+00	1.04E-06	0.00E+00	4.38E-06	0.00E+00
ODP	kg CFC 11 eq	3.27E-12	0.00E+00	4.65E-16	0.00E+00	1.70E-14	0.00E+00
AP	Mole of H <sup>+</sup> eq	2.77E-03	0.00E+00	6.07E-06	0.00E+00	3.93E-05	0.00E+00
EPf	kg P eq	3.47E-05	0.00E+00	3.56E-09	0.00E+00	7.81E-06	0.00E+00
EPm	kg N eq	8.74E-04	0.00E+00	2.95E-06	0.00E+00	9.78E-06	0.00E+00
EPt	Mole of N eq	8.55E-03	0.00E+00	3.22E-05	0.00E+00	1.07E-04	0.00E+00
POCP	kg NMVOC eq	3.21E-03	0.00E+00	5.82E-06	0.00E+00	2.99E-05	0.00E+00
ADP-elements	kg Sb eq	2.77E-07	0.00E+00	3.03E-10	0.00E+00	7.84E-10	0.00E+00
ADP-fossil fuel	MJ	1.44E+01	0.00E+00	2.53E-02	0.00E+00	1.00E-01	0.00E+00
WDP	m <sup>3</sup> world equiv.	1.14E-02	0.00E+00	2.77E-05	0.00E+00	2.90E-04	0.00E+00
PM	Disease incidences	3.81E-08	0.00E+00	6.72E-11	0.00E+00	4.47E-10	0.00E+00
IRP	kBq U235 eq	7.60E-02	0.00E+00	7.29E-06	0.00E+00	1.02E-04	0.00E+00
ETP	CTUe	8.29E+00	0.00E+00	1.83E-02	0.00E+00	4.41E-01	0.00E+00
HTP-c	CTUh	2.99E-10	0.00E+00	3.37E-13	0.00E+00	1.24E-12	0.00E+00
HTP-nc	CTUh	1.75E-08	0.00E+00	9.22E-12	0.00E+00	7.24E-11	0.00E+00
SQP	Pt	1.32E+00	0.00E+00	3.75E-03	0.00E+00	7.33E-03	0.00E+00
Acronyms	GWPI = Global Warming Potential (100 years, incl. biogenic CO <sub>2</sub> ); GWPe – Global Warming Potential (100 years, excl. biogenic CO <sub>2</sub> ); AP = Acidification potential of soil and water; EPfw = Eutrophication potential – Freshwater; EPm = Eutrophication potential – Marine; EP = Eutrophication potential (calculated used TRACI 2.1); ODP – Depletion of stratospheric ozone layer; SFP = Smog Formation Potential; GWP-fossil = Global Warming Potential fossil fuels; GWP-biogenic = Global Warming Potential biogenic; GWP-luluc = Global Warming Potential land use and land use change; ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential, Accumulated Exceedance; EP-freshwater = Eutrophication potential, fraction of nutrients reaching freshwater end compartment; EP-marine = Eutrophication potential, fraction of nutrients reaching marine end compartment; EP-terrestrial = Eutrophication potential, Accumulated Exceedance; POCP = Formation potential of tropospheric ozone; ADP-minerals&metals = Abiotic depletion potential for non-fossil resources; ADP-fossil = Abiotic depletion for fossil resources potential; WDP = Water (user) deprivation potential, deprivation-weighted water consumption; PM = Potential incidence of disease						

due to PM emissions; IRP = Potential Human exposure efficiency relative to U235; ETP-fw = Potential Comparative Toxic Unit for ecosystems; HTP-c = Potential Comparative Toxic Unit for humans; HTP-nc = Potential Comparative Toxic Unit for humans; SQP = Potential soil quality index

### Additional mandatory and voluntary impact category indicators

Indicator	Unit	A1-A3	C1	C2	C3	C4	D
GWP-GHG <sup>1</sup>	kg CO <sub>2</sub> eq.	7.51E-01	0.00E+00	1.96E-03	0.00E+00	6.65E-03	0.00E+00

### Carbon emissions and removals

Indicator	Unit	A1-A3	C1	C2	C3	C4	D
BCRP	kg CO <sub>2</sub>	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BCEP	kg CO <sub>2</sub>	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BCRK	kg CO <sub>2</sub>	3.56E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BCEK	kg CO <sub>2</sub>	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BCEW	kg CO <sub>2</sub>	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CCE	kg CO <sub>2</sub>	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CCR	kg CO <sub>2</sub>	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CWNR	kg CO <sub>2</sub>	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Acronyms	BCRP = Biogenic Carbon Removal from Product; BCEP = Biogenic Carbon Emission from Product; BCRK = Biogenic Carbon Removal from Packaging; BCEK = Biogenic Carbon Emission from Packaging; BCEW = Biogenic Carbon Emission from Combustion of Waste from Renewable Sources Used in Production Processes; CCE = Calcination Carbon Emissions; CCR = Carbonation Carbon Removals; CWNR = Carbon Emissions from Combustion of Waste from Non-Renewable Sources Used in Production Processes						

### Resource use indicators

Indicator	Unit	A1-A3	C1	C2	C3	C4	D
PERE	MJ	1.69E+00	0.00E+00	1.05E-03	0.00E+00	1.43E-02	0.00E+00
PERM	MJ	3.59E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PERT	MJ	2.05E+00	0.00E+00	1.05E-03	0.00E+00	1.43E-02	0.00E+00
PENRE	MJ	1.20E+01	0.00E+00	2.53E-02	0.00E+00	1.00E-01	0.00E+00
PENRM	MJ	2.40E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PENRT	MJ	1.44E+01	0.00E+00	2.53E-02	0.00E+00	1.00E-01	0.00E+00
SM	kg	2.60E-01	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
RE	MJ	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
FW	m <sup>3</sup>	1.27E-03	0.00E+00	1.14E-06	0.00E+00	1.09E-05	0.00E+00
Acronyms	PERE = Use of renewable primary energy excluding renewable primary energy resources used as raw materials; PERM = Use of renewable primary energy resources used as raw materials; PERT = Total use of renewable primary energy resources; PENRE = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials; PENRM = Use of non-renewable primary energy resources used as raw materials; PENRT = Total use of non-renewable primary energy resources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Use of net fresh water						

### Waste indicators

Indicator	Unit	A1-A3	C1	C2	C3	C4	D
HWD	kg	4.23E-08	0.00E+00	4.20E-12	0.00E+00	2.40E-11	0.00E+00
NHWD	kg	1.39E-01	0.00E+00	2.59E-06	0.00E+00	2.99E-01	0.00E+00
RWD	kg	5.50E-04	0.00E+00	8.70E-08	0.00E+00	1.10E-06	0.00E+00
HLRW	kg	5.07E-07	0.00E+00	1.03E-10	0.00E+00	1.26E-09	0.00E+00
ILLRW	kg	5.50E-04	0.00E+00	8.69E-08	0.00E+00	1.10E-06	0.00E+00
Acronyms	HWD = Disposed-of hazardous waste; NHWD = disposed-of non-hazardous waste; RWD = Radioactive waste disposed; HLRW = High-level radioactive waste, conditioned, to final repository; ILLRW = Intermediate- and low-level radioactive waste, conditioned, to final repository						

### Output flow indicators

Indicator	Unit	A1-A3	C1	C2	C3	C4	D
CRU	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MR	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

<sup>1</sup> This indicator accounts for all greenhouse gases except biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product. As such, the indicator is identical to GWP-total except that the CF for biogenic CO<sub>2</sub> is set to zero.

MER	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EEE	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EET	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Acronyms	CRU = Components for reuse; MR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported electrical energy; EET = Exported thermal energy						

## ADDITIONAL ENVIRONMENTAL INFORMATION

### EXTRAPOLATION OF RESULTS – REVIVE® 1% AND 5% UNCURT

The following section of this EPD contains conversion factors that can be used to calculate the results for additional products under scope using the results for GreenScreen Evolve® 3% uncut. These conversion factors are intended to be applied directly via multiplication to each impact category result and for each life cycle module presented in the results tables above for GreenScreen Evolve® 3% uncut. In the following tables, the “X” indicates multiplication and was included to visually differentiate results from extrapolation factors.

### Extrapolation of LCA results for GreenScreen Revive® 1% - Uncut Mandatory impact category indicators according to EN 15804

Indicator	Unit	A1-A3	C1	C2	C3	C4	D
<i>IPCC</i>							
GWPI	kg CO <sub>2</sub> eq.	X 0.711	-	X 0.664	-	X 0.664	-
GWPe	kg CO <sub>2</sub> eq.	X 0.692	-	X 0.664	-	X 0.664	-
<i>TRACI</i>							
AP	kg SO <sub>2</sub> eq	X 0.665	-	X 0.664	-	X 0.664	-
EPfw	kg P eq	X 0.944	-	X 0.664	-	X 0.664	-
EPm	kg N eq	X 0.668	-	X 0.664	-	X 0.664	-
EP	kg N eq	X 0.912	-	X 0.664	-	X 0.664	-
ODP	kg CFC 11 eq	X 0.698	-	X 0.664	-	X 0.664	-
SFP	kg O <sub>3</sub> eq	X 0.661	-	X 0.664	-	X 0.664	-
<i>EN 15804+A2 (EF 3.1)</i>							
GWP, total	kg CO <sub>2</sub> eq	X 0.711	-	X 0.664	-	X 0.664	-
GWP, fossil	kg CO <sub>2</sub> eq	X 0.689	-	X 0.664	-	X 0.664	-
GWP, biogenic	kg CO <sub>2</sub> eq	X 0.972	-	X 0.664	-	X 0.664	-
GWP, land use	kg CO <sub>2</sub> eq	X 0.762	-	X 0.664	-	X 0.664	-
ODP	kg CFC 11 eq	X 0.697	-	X 0.664	-	X 0.664	-
AP	Mole of H <sup>+</sup> eq	X 0.667	-	X 0.664	-	X 0.664	-
EPf	kg P eq	X 0.945	-	X 0.664	-	X 0.664	-
EPm	kg N eq	X 0.707	-	X 0.664	-	X 0.664	-
EPt	Mole of N eq	X 0.67	-	X 0.664	-	X 0.664	-
POCP	kg NMVOC eq	X 0.646	-	X 0.664	-	X 0.664	-
ADP-elements	kg Sb eq	X 0.849	-	X 0.664	-	X 0.664	-
ADP-fossil fuel	MJ	X 0.633	-	X 0.664	-	X 0.664	-
Water	m <sup>3</sup> world equiv.	X 0.093	-	X 0.664	-	X 0.664	-
PM	Disease incidences	X 0.662	-	X 0.664	-	X 0.664	-
IRP	kBq U235 eq	X 0.689	-	X 0.664	-	X 0.664	-
ETP	CTUe	X 0.653	-	X 0.664	-	X 0.664	-
HTP-c	CTUh	X 0.789	-	X 0.664	-	X 0.664	-
HTP-nc	CTUh	X 0.926	-	X 0.664	-	X 0.664	-
SQP	Pt	X 0.689	-	X 0.664	-	X 0.664	-
Acronyms	GWPI = Global Warming Potential (100 years, incl. biogenic CO <sub>2</sub> ); GWPe – Global Warming Potential (100 years, excl. biogenic CO <sub>2</sub> ); AP = Acidification potential of soil and water; EPfw = Eutrophication potential – Freshwater; EPm = Eutrophication potential – Marine; EP = Eutrophication potential (calculated used TRACI 2.1); ODP – Depletion of stratospheric ozone layer; SFP = Smog Formation Potential; GWP-fossil = Global Warming Potential fossil fuels; GWP-biogenic = Global Warming Potential biogenic; GWP-luluc = Global Warming Potential land use and land use change; ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential, Accumulated Exceedance; EP-freshwater = Eutrophication potential,						

fraction of nutrients reaching freshwater end compartment; EP-marine = Eutrophication potential, fraction of nutrients reaching marine end compartment; EP-terrestrial = Eutrophication potential, Accumulated Exceedance; POCP = Formation potential of tropospheric ozone; ADP-minerals&metals = Abiotic depletion potential for non-fossil resources; ADP-fossil = Abiotic depletion for fossil resources potential; WDP = Water (user) deprivation potential, deprivation-weighted water consumption; PM = Potential incidence of disease due to PM emissions; IRP = Potential Human exposure efficiency relative to U235; ETP-fw = Potential Comparative Toxic Unit for ecosystems; HTP-c = Potential Comparative Toxic Unit for humans; HTP-nc = Potential Comparative Toxic Unit for humans; SQP = Potential soil quality index

### Additional mandatory and voluntary impact category indicators

Indicator	Unit	A1-A3	C1	C2	C3	C4	D
GWP-GHG <sup>2</sup>	kg CO <sub>2</sub> eq.	X 0.692	-	X 0.664	-	X 0.664	-

### Carbon emissions and removals

Indicator	Unit	A1-A3	C1	C2	C3	C4	D
BCRP	kg CO <sub>2</sub>	-	-	-	-	-	-
BCEP	kg CO <sub>2</sub>	-	-	-	-	-	-
BCRK	kg CO <sub>2</sub>	X 1	-	-	-	-	-
BCEK	kg CO <sub>2</sub>	-	-	-	-	-	-
BCEW	kg CO <sub>2</sub>	-	-	-	-	-	-
CCE	kg CO <sub>2</sub>	-	-	-	-	-	-
CCR	kg CO <sub>2</sub>	-	-	-	-	-	-
CWNR	kg CO <sub>2</sub>	-	-	-	-	-	-
Acronyms	BCRP = Biogenic Carbon Removal from Product; BCEP = Biogenic Carbon Emission from Product; BCRK = Biogenic Carbon Removal from Packaging; BCEK = Biogenic Carbon Emission from Packaging; BCEW = Biogenic Carbon Emission from Combustion of Waste from Renewable Sources Used in Production Processes; CCE = Calcination Carbon Emissions; CCR = Carbonation Carbon Removals; CWNR = Carbon Emissions from Combustion of Waste from Non-Renewable Sources Used in Production Processes						

### Resource use indicators

Indicator	Unit	A1-A3	C1	C2	C3	C4	D
PERE	MJ	X 0.622	-	X 0.664	-	X 0.664	-
PERM	MJ	X 1	-	-	-	-	-
PERT	MJ	X 0.689	-	X 0.664	-	X 0.664	-
PENRE	MJ	X 0.66	-	X 0.664	-	X 0.664	-
PENRM	MJ	X 0.495	-	-	-	-	-
PENRT	MJ	X 0.632	-	X 0.664	-	X 0.664	-
SM	kg	X 0.71	-	-	-	-	-
RSF	MJ	-	-	-	-	-	-
RE	MJ	-	-	-	-	-	-
NRSF	MJ	-	-	-	-	-	-
FW	m <sup>3</sup>	X 0.584	-	X 0.664	-	X 0.664	-
Acronyms	PERE = Use of renewable primary energy excluding renewable primary energy resources used as raw materials; PERM = Use of renewable primary energy resources used as raw materials; PERT = Total use of renewable primary energy resources; PENRE = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials; PENRM = Use of non-renewable primary energy resources used as raw materials; PENRT = Total use of non-renewable primary energy re-sources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Use of net fresh water						

### Waste indicators

Indicator	Unit	A1-A3	C1	C2	C3	C4	D
HWD	kg	X 0.708	-	X 0.664	-	X 0.664	-
NHWD	kg	X 0.75	-	X 0.664	-	X 0.664	-
RWD	kg	X 0.734	-	X 0.664	-	X 0.664	-
HLRW	kg	X 0.767	-	X 0.664	-	X 0.664	-
ILLRW	kg	X 0.734	-	X 0.664	-	X 0.664	-
Acronyms	HWD = Disposed-of hazardous waste; NHWD = disposed-of non-hazardous waste; RWD = Radioactive waste disposed; HLRW = High-level radioactive waste, conditioned, to final repository; ILLRW = Intermediate- and low-level radioactive waste, conditioned, to final repository						

<sup>2</sup> This indicator accounts for all greenhouse gases except biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product. As such, the indicator is identical to GWP-total except that the CF for biogenic CO<sub>2</sub> is set to zero.

## Output flow indicators

Indicator	Unit	A1-A3	C1	C2	C3	C4	D
CRU	kg	-	-	-	-	-	-
MR	kg	-	-	-	-	-	-
MER	kg	-	-	-	-	-	-
EEE	MJ	-	-	-	-	-	-
EET	MJ	-	-	-	-	-	-
Acronyms	CRU = Components for reuse; MR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported electrical energy; EET = Exported thermal energy						

## Extrapolation of LCA results for GreenScreen Revive® 5% - Uncut Mandatory impact category indicators according to EN 15804

Indicator	Unit	A1-A3	C1	C2	C3	C4	D
<i>IPCC</i>							
GWPI	kg CO <sub>2</sub> eq.	X 0.636	-	X 0.568	-	X 0.568	-
GWPe	kg CO <sub>2</sub> eq.	X 0.611	-	X 0.568	-	X 0.568	-
<i>TRACI</i>							
AP	kg SO <sub>2</sub> eq	X 0.577	-	X 0.568	-	X 0.568	-
EPfw	kg P eq	X 0.927	-	X 0.568	-	X 0.568	-
EPm	kg N eq	X 0.581	-	X 0.568	-	X 0.568	-
EP	kg N eq	X 0.887	-	X 0.568	-	X 0.568	-
ODP	kg CFC 11 eq	X 0.612	-	X 0.568	-	X 0.568	-
SFP	kg O <sub>3</sub> eq	X 0.574	-	X 0.568	-	X 0.568	-
<i>EN 15804+A2 (EF 3.1)</i>							
GWP, total	kg CO <sub>2</sub> eq	X 0.636	-	X 0.568	-	X 0.568	-
GWP, fossil	kg CO <sub>2</sub> eq	X 0.608	-	X 0.568	-	X 0.568	-
GWP, biogenic	kg CO <sub>2</sub> eq	X 0.964	-	X 0.568	-	X 0.568	-
GWP, land use	kg CO <sub>2</sub> eq	X 0.692	-	X 0.568	-	X 0.568	-
ODP	kg CFC 11 eq	X 0.611	-	X 0.568	-	X 0.568	-
AP	Mole of H <sup>+</sup> eq	X 0.579	-	X 0.568	-	X 0.568	-
EPf	kg P eq	X 0.929	-	X 0.568	-	X 0.568	-
EPm	kg N eq	X 0.63	-	X 0.568	-	X 0.568	-
EPt	Mole of N eq	X 0.584	-	X 0.568	-	X 0.568	-
POCP	kg NMVOC eq	X 0.559	-	X 0.568	-	X 0.568	-
ADP-elements	kg Sb eq	X 0.731	-	X 0.568	-	X 0.568	-
ADP-fossil fuel	MJ	X 0.557	-	X 0.568	-	X 0.568	-
Water	m <sup>3</sup> world equiv.	X 0.267	-	X 0.568	-	X 0.568	-
PM	Disease incidences	X 0.574	-	X 0.568	-	X 0.568	-
IRP	kBq U235 eq	X 0.609	-	X 0.568	-	X 0.568	-
ETP	CTUe	X 0.587	-	X 0.568	-	X 0.568	-
HTP-c	CTUh	X 0.742	-	X 0.568	-	X 0.568	-
HTP-nc	CTUh	X 0.905	-	X 0.568	-	X 0.568	-
SQP	Pt	X 0.606	-	X 0.568	-	X 0.568	-
Acronyms	GWPI = Global Warming Potential (100 years, incl. biogenic CO <sub>2</sub> ); GWPe – Global Warming Potential (100 years, excl. biogenic CO <sub>2</sub> ); AP = Acidification potential of soil and water; EPfw = Eutrophication potential – Freshwater; EPm = Eutrophication potential – Marine; EP = Eutrophication potential (calculated used TRACI 2.1); ODP – Depletion of stratospheric ozone layer; SFP = Smog Formation Potential; GWP-fossil = Global Warming Potential fossil fuels; GWP-biogenic = Global Warming Potential biogenic; GWP-land use = Global Warming Potential land use and land use change; ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential, Accumulated Exceedance; EP-freshwater = Eutrophication potential, fraction of nutrients reaching freshwater end compartment; EP-marine = Eutrophication potential, fraction of nutrients reaching marine end compartment; EP-terrestrial = Eutrophication potential, Accumulated						

Exceedance; POCP = Formation potential of tropospheric ozone; ADP-minerals&metals = Abiotic depletion potential for non-fossil resources; ADP-fossil = Abiotic depletion for fossil resources potential; WDP = Water (user) deprivation potential, deprivation-weighted water consumption; PM = Potential incidence of disease due to PM emissions; IRP = Potential Human exposure efficiency relative to U235; ETP-fw = Potential Comparative Toxic Unit for ecosystems; HTP-c = Potential Comparative Toxic Unit for humans; HTP-nc = Potential Comparative Toxic Unit for humans; SQP = Potential soil quality index

### Additional mandatory and voluntary impact category indicators

Indicator	Unit	A1-A3	C1	C2	C3	C4	D
GWP-GHG <sup>3</sup>	kg CO <sub>2</sub> eq.	X 0.612	-	X 0.568	-	X 0.568	-

### Carbon emissions and removals

Indicator	Unit	A1-A3	C1	C2	C3	C4	D
BCRP	kg CO <sub>2</sub>	-	-	-	-	-	-
BCEP	kg CO <sub>2</sub>	-	-	-	-	-	-
BCRK	kg CO <sub>2</sub>	X 1	-	-	-	-	-
BCEK	kg CO <sub>2</sub>	-	-	-	-	-	-
BCEW	kg CO <sub>2</sub>	-	-	-	-	-	-
CCE	kg CO <sub>2</sub>	-	-	-	-	-	-
CCR	kg CO <sub>2</sub>	-	-	-	-	-	-
CWNR	kg CO <sub>2</sub>	-	-	-	-	-	-
Acronyms	BCRP = Biogenic Carbon Removal from Product; BCEP = Biogenic Carbon Emission from Product; BCRK = Biogenic Carbon Removal from Packaging; BCEK = Biogenic Carbon Emission from Packaging; BCEW = Biogenic Carbon Emission from Combustion of Waste from Renewable Sources Used in Production Processes; CCE = Calcination Carbon Emissions; CCR = Carbonation Carbon Removals; CWNR = Carbon Emissions from Combustion of Waste from Non-Renewable Sources Used in Production Processes						

### Resource use indicators

Indicator	Unit	A1-A3	C1	C2	C3	C4	D
PERE	MJ	X 0.521	-	X 0.568	-	X 0.568	-
PERM	MJ	X 1	-	-	-	-	-
PERT	MJ	X 0.605	-	X 0.568	-	X 0.568	-
PENRE	MJ	X 0.583	-	X 0.568	-	X 0.568	-
PENRM	MJ	X 0.427	-	-	-	-	-
PENRT	MJ	X 0.556	-	X 0.568	-	X 0.568	-
SM	kg	X 0.606	-	-	-	-	-
RSF	MJ	-	-	-	-	-	-
RE	MJ	-	-	-	-	-	-
NRSF	MJ	-	-	-	-	-	-
FW	m <sup>3</sup>	X 0.55	-	X 0.568	-	X 0.568	-
Acronyms	PERE = Use of renewable primary energy excluding renewable primary energy resources used as raw materials; PERM = Use of renewable primary energy resources used as raw materials; PERT = Total use of renewable primary energy resources; PENRE = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials; PENRM = Use of non-renewable primary energy resources used as raw materials; PENRT = Total use of non-renewable primary energy re-sources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Use of net fresh water						

### Waste indicators

Indicator	Unit	A1-A3	C1	C2	C3	C4	D
HWD	kg	X 0.607	-	X 0.568	-	X 0.568	-
NHWD	kg	X 0.673	-	X 0.568	-	X 0.568	-
RWD	kg	X 0.66	-	X 0.568	-	X 0.568	-
HLRW	kg	X 0.698	-	X 0.568	-	X 0.568	-
ILLRW	kg	X 0.66	-	X 0.568	-	X 0.568	-
Acronyms	HWD = Disposed-of hazardous waste; NHWD = disposed-of non-hazardous waste; RWD = Radioactive waste disposed; HLRW = High-level radioactive waste, conditioned, to final repository; ILLRW = Intermediate- and low-level radioactive waste, conditioned, to final repository						

### Output flow indicators

Indicator	Unit	A1-A3	C1	C2	C3	C4	D
CRU	kg	-	-	-	-	-	-
MR	kg	-	-	-	-	-	-

<sup>3</sup> This indicator accounts for all greenhouse gases except biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product. As such, the indicator is identical to GWP-total except that the CF for biogenic CO<sub>2</sub> is set to zero.

MER	kg	-	-	-	-	-	-
EEE	MJ	-	-	-	-	-	-
EET	MJ	-	-	-	-	-	-
Acronyms	CRU = Components for reuse; MR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported electrical energy; EET = Exported thermal energy						

## EXTRAPOLATION OF RESULTS – CUT FABRIC

Some GreenScreen Evolve® and GreenScreen Revive® products are cut to size for the customer if the standard size does not fit the customer’s windows. An average 10% cutting scrap rate was used, informed by Mermet customers, and a 100% scrap to landfill scenario was assumed. Additional electricity is needed for cutting.

The following section of this EPD contains conversion factors that can be used to calculate the results for additional products under scope using the results for GreenScreen Evolve® 3% uncut. These conversion factors are intended to be applied directly via multiplication to each impact category result and for each life cycle module presented in the results tables above for GreenScreen Evolve® 3% uncut. In the following tables, the “X” indicates multiplication and was included to visually differentiate results from extrapolation factors.

### Extrapolation of LCA results for GreenScreen Evolve® 3% - Cut Mandatory impact category indicators according to EN 15804

Indicator	Unit	A1-A3	C1	C2	C3	C4	D
<i>IPCC</i>							
GWPI	kg CO <sub>2</sub> eq.	X 1.32	-	X 1	-	X 1	-
GWPe	kg CO <sub>2</sub> eq.	X 1.336	-	X 1	-	X 1	-
<i>TRACI</i>							
AP	kg SO <sub>2</sub> eq	X 1.15	-	X 1	-	X 1	-
EPfw	kg P eq	X 1.125	-	X 1	-	X 1	-
EPm	kg N eq	X 1.147	-	X 1	-	X 1	-
EP	kg N eq	X 1.125	-	X 1	-	X 1	-
ODP	kg CFC 11 eq	X 1.103	-	X 1	-	X 1	-
SFP	kg O <sub>3</sub> eq	X 1.151	-	X 1	-	X 1	-
<i>EN 15804+A2 (EF 3.1)</i>							
GWP, total	kg CO <sub>2</sub> eq	X 1.319	-	X 1	-	X 1	-
GWP, fossil	kg CO <sub>2</sub> eq	X 1.338	-	X 1	-	X 1	-
GWP, biogenic	kg CO <sub>2</sub> eq	X 1.1	-	X 1	-	X 1	-
GWP, land use	kg CO <sub>2</sub> eq	X 1.109	-	X 1	-	X 1	-
ODP	kg CFC 11 eq	X 1.103	-	X 1	-	X 1	-
AP	Mole of H <sup>+</sup> eq	X 1.153	-	X 1	-	X 1	-
EPf	kg P eq	X 1.123	-	X 1	-	X 1	-
EPm	kg N eq	X 1.143	-	X 1	-	X 1	-
EPt	Mole of N eq	X 1.147	-	X 1	-	X 1	-
POCP	kg NMVOC eq	X 1.138	-	X 1	-	X 1	-
ADP-elements	kg Sb eq	X 1.154	-	X 1	-	X 1	-
ADP-fossil fuel	MJ	X 1.391	-	X 1	-	X 1	-
Water	m <sup>3</sup> world equiv.	X 3.145	-	X 1	-	X 1	-
PM	Disease incidences	X 1.138	-	X 1	-	X 1	-
IRP	kBq U235 eq	X 1.838	-	X 1	-	X 1	-
ETP	CTUe	X 1.138	-	X 1	-	X 1	-
HTP-c	CTUh	X 1.142	-	X 1	-	X 1	-
HTP-nc	CTUh	X 1.11	-	X 1	-	X 1	-
SQP	Pt	X 1.104	-	X 1	-	X 1	-
Acronyms	GWPI = Global Warming Potential (100 years, incl. biogenic CO <sub>2</sub> ); GWPe – Global Warming Potential (100 years, excl. biogenic CO <sub>2</sub> ); AP = Acidification potential of soil and water; EPfw = Eutrophication potential – Freshwater; EPm = Eutrophication potential – Marine; EP = Eutrophication potential (calculated used TRACI 2.1); ODP – Depletion of stratospheric ozone layer; SFP = Smog Formation Potential; GWP-fossil = Global Warming Potential fossil fuels; GWP-biogenic = Global Warming Potential biogenic; GWP-luluc =						

Global Warming Potential land use and land use change; ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential, Accumulated Exceedance; EP-freshwater = Eutrophication potential, fraction of nutrients reaching freshwater end compartment; EP-marine = Eutrophication potential, fraction of nutrients reaching marine end compartment; EP-terrestrial = Eutrophication potential, Accumulated Exceedance; POCP = Formation potential of tropospheric ozone; ADP-minerals&metals = Abiotic depletion potential for non-fossil resources; ADP-fossil = Abiotic depletion for fossil resources potential; WDP = Water (user) deprivation potential, deprivation-weighted water consumption; PM = Potential incidence of disease due to PM emissions; IRP = Potential Human exposure efficiency relative to U235; ETP-fw = Potential Comparative Toxic Unit for ecosystems; HTP-c = Potential Comparative Toxic Unit for humans; HTP-nc = Potential Comparative Toxic Unit for humans; SQP = Potential soil quality index

### Additional mandatory and voluntary impact category indicators

Indicator	Unit	A1-A3	C1	C2	C3	C4	D
GWP-GHG <sup>4</sup>	kg CO <sub>2</sub> eq.	X 1.335	-	X 1	-	X 1	-

### Carbon emissions and removals

Indicator	Unit	A1-A3	C1	C2	C3	C4	D
BCRP	kg CO <sub>2</sub>	-	-	-	-	-	-
BCEP	kg CO <sub>2</sub>	-	-	-	-	-	-
BCRK	kg CO <sub>2</sub>	X 1	-	-	-	-	-
BCEK	kg CO <sub>2</sub>	-	-	-	-	-	-
BCEW	kg CO <sub>2</sub>	-	-	-	-	-	-
CCE	kg CO <sub>2</sub>	-	-	-	-	-	-
CCR	kg CO <sub>2</sub>	-	-	-	-	-	-
CWNR	kg CO <sub>2</sub>	-	-	-	-	-	-
Acronyms	BCRP = Biogenic Carbon Removal from Product; BCEP = Biogenic Carbon Emission from Product; BCRK = Biogenic Carbon Removal from Packaging; BCEK = Biogenic Carbon Emission from Packaging; BCEW = Biogenic Carbon Emission from Combustion of Waste from Renewable Sources Used in Production Processes; CCE = Calcination Carbon Emissions; CCR = Carbonation Carbon Removals; CWNR = Carbon Emissions from Combustion of Waste from Non-Renewable Sources Used in Production Processes						

### Resource use indicators

Indicator	Unit	A1-A3	C1	C2	C3	C4	D
PERE	MJ	X 1.103	-	X 1	-	X 1	-
PERM	MJ	X 1.1	-	-	-	-	-
PERT	MJ	X 1.103	-	X 1	-	X 1	-
PENRE	MJ	X 1.449	-	X 1	-	X 1	-
PENRM	MJ	X 1.1	-	-	-	-	-
PENRT	MJ	X 1.391	-	X 1	-	X 1	-
SM	kg	X 1.1	-	-	-	-	-
RSF	MJ	-	-	-	-	-	-
RE	MJ	-	-	-	-	-	-
NRSF	MJ	-	-	-	-	-	-
FW	m <sup>3</sup>	X 1.642	-	X 1	-	X 1	-
Acronyms	PERE = Use of renewable primary energy excluding renewable primary energy resources used as raw materials; PERM = Use of renewable primary energy resources used as raw materials; PERT = Total use of renewable primary energy resources; PENRE = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials; PENRM = Use of non-renewable primary energy resources used as raw materials; PENRT = Total use of non-renewable primary energy re-sources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Use of net fresh water						

### Waste indicators

Indicator	Unit	A1-A3	C1	C2	C3	C4	D
HWD	kg	X 1.105	-	X 1	-	X 1	-
NHWD	kg	X 1.319	-	X 1	-	X 1	-
RWD	kg	X 2.334	-	X 1	-	X 1	-
HLRW	kg	X 2.7	-	X 1	-	X 1	-
ILLRW	kg	X 2.333	-	X 1	-	X 1	-

<sup>4</sup> This indicator accounts for all greenhouse gases except biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product. As such, the indicator is identical to GWP-total except that the CF for biogenic CO<sub>2</sub> is set to zero.

Acronyms	HWD = Disposed-of hazardous waste; NHWD = disposed-of non-hazardous waste; RWD = Radioactive waste disposed; HLRW = High-level radioactive waste, conditioned, to final repository; ILLRW = Intermediate- and low-level radioactive waste, conditioned, to final repository
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### Output flow indicators

Indicator	Unit	A1-A3	C1	C2	C3	C4	D
CRU	kg	-	-	-	-	-	-
MR	kg	-	-	-	-	-	-
MER	kg	-	-	-	-	-	-
EEE	MJ	-	-	-	-	-	-
EET	MJ	-	-	-	-	-	-
Acronyms	CRU = Components for reuse; MR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported electrical energy; EET = Exported thermal energy						

### Extrapolation of LCA results for GreenScreen Revive® 1% - Cut Mandatory impact category indicators according to EN 15804

Indicator	Unit	A1-A3	C1	C2	C3	C4	D
<i>IPCC</i>							
GWPI	kg CO <sub>2</sub> eq.	X 0.928	-	X 0.664	-	X 0.664	-
GWPe	kg CO <sub>2</sub> eq.	X 0.917	-	X 0.664	-	X 0.664	-
<i>TRACI</i>							
AP	kg SO <sub>2</sub> eq	X 0.765	-	X 0.664	-	X 0.664	-
EPfw	kg P eq	X 1.055	-	X 0.664	-	X 0.664	-
EPm	kg N eq	X 0.765	-	X 0.664	-	X 0.664	-
EP	kg N eq	X 1.02	-	X 0.664	-	X 0.664	-
ODP	kg CFC 11 eq	X 0.77	-	X 0.664	-	X 0.664	-
SFP	kg O <sub>3</sub> eq	X 0.761	-	X 0.664	-	X 0.664	-
<i>EN 15804+A2 (EF 3.1)</i>							
GWP, total	kg CO <sub>2</sub> eq	X 0.928	-	X 0.664	-	X 0.664	-
GWP, fossil	kg CO <sub>2</sub> eq	X 0.916	-	X 0.664	-	X 0.664	-
GWP, biogenic	kg CO <sub>2</sub> eq	X 1.069	-	X 0.664	-	X 0.664	-
GWP, land use	kg CO <sub>2</sub> eq	X 0.844	-	X 0.664	-	X 0.664	-
ODP	kg CFC 11 eq	X 0.768	-	X 0.664	-	X 0.664	-
AP	Mole of H <sup>+</sup> eq	X 0.769	-	X 0.664	-	X 0.664	-
EPf	kg P eq	X 1.055	-	X 0.664	-	X 0.664	-
EPm	kg N eq	X 0.806	-	X 0.664	-	X 0.664	-
EPt	Mole of N eq	X 0.768	-	X 0.664	-	X 0.664	-
POCP	kg NMVOC eq	X 0.736	-	X 0.664	-	X 0.664	-
ADP-elements	kg Sb eq	X 0.969	-	X 0.664	-	X 0.664	-
ADP-fossil fuel	MJ	X 0.89	-	X 0.664	-	X 0.664	-
Water	m <sup>3</sup> world equiv.	X 1.461	-	X 0.664	-	X 0.664	-
PM	Disease incidences	X 0.754	-	X 0.664	-	X 0.664	-
IRP	kBq U235 eq	X 1.249	-	X 0.664	-	X 0.664	-
ETP	CTUe	X 0.744	-	X 0.664	-	X 0.664	-
HTP-c	CTUh	X 0.896	-	X 0.664	-	X 0.664	-
HTP-nc	CTUh	X 1.025	-	X 0.664	-	X 0.664	-
SQP	Pt	X 0.76	-	X 0.664	-	X 0.664	-
Acronyms	GWPI = Global Warming Potential (100 years, incl. biogenic CO <sub>2</sub> ); GWPe – Global Warming Potential (100 years, excl. biogenic CO <sub>2</sub> ); AP = Acidification potential of soil and water; EPfw = Eutrophication potential – Freshwater; EPm = Eutrophication potential – Marine; EP = Eutrophication potential (calculated used TRACI 2.1); ODP – Depletion of stratospheric ozone layer; SFP = Smog Formation Potential; GWP-fossil = Global Warming Potential fossil fuels; GWP-biogenic = Global Warming Potential biogenic; GWP-luluc = Global Warming Potential land use and land use change; ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential, Accumulated Exceedance; EP-freshwater = Eutrophication potential, fraction of nutrients reaching freshwater end compartment; EP-marine = Eutrophication potential, fraction of						

nutrients reaching marine end compartment; EP-terrestrial = Eutrophication potential, Accumulated Exceedance; POCP = Formation potential of tropospheric ozone; ADP-minerals&metals = Abiotic depletion potential for non-fossil resources; ADP-fossil = Abiotic depletion for fossil resources potential; WDP = Water (user) deprivation potential, deprivation-weighted water consumption; PM = Potential incidence of disease due to PM emissions; IRP = Potential Human exposure efficiency relative to U235; ETP-fw = Potential Comparative Toxic Unit for ecosystems; HTP-c = Potential Comparative Toxic Unit for humans; HTP-nc = Potential Comparative Toxic Unit for humans; SQP = Potential soil quality index

### Additional mandatory and voluntary impact category indicators

Indicator	Unit	A1-A3	C1	C2	C3	C4	D
GWP-GHG <sup>5</sup>	kg CO <sub>2</sub> eq.	X 0.918	-	X 0.664	-	X 0.664	-

### Carbon emissions and removals

Indicator	Unit	A1-A3	C1	C2	C3	C4	D
BCRP	kg CO <sub>2</sub>	-	-	-	-	-	-
BCEP	kg CO <sub>2</sub>	-	-	-	-	-	-
BCRK	kg CO <sub>2</sub>	X 1	-	-	-	-	-
BCEK	kg CO <sub>2</sub>	-	-	-	-	-	-
BCEW	kg CO <sub>2</sub>	-	-	-	-	-	-
CCE	kg CO <sub>2</sub>	-	-	-	-	-	-
CCR	kg CO <sub>2</sub>	-	-	-	-	-	-
CWNR	kg CO <sub>2</sub>	-	-	-	-	-	-
Acronyms	BCRP = Biogenic Carbon Removal from Product; BCEP = Biogenic Carbon Emission from Product; BCRK = Biogenic Carbon Removal from Packaging; BCEK = Biogenic Carbon Emission from Packaging; BCEW = Biogenic Carbon Emission from Combustion of Waste from Renewable Sources Used in Production Processes; CCE = Calcination Carbon Emissions; CCR = Carbonation Carbon Removals; CWNR = Carbon Emissions from Combustion of Waste from Non-Renewable Sources Used in Production Processes						

### Resource use indicators

Indicator	Unit	A1-A3	C1	C2	C3	C4	D
PERE	MJ	X 0.687	-	X 0.664	-	X 0.664	-
PERM	MJ	X 1.1	-	-	-	-	-
PERT	MJ	X 0.759	-	X 0.664	-	X 0.664	-
PENRE	MJ	X 0.959	-	X 0.664	-	X 0.664	-
PENRM	MJ	X 0.545	-	-	-	-	-
PENRT	MJ	X 0.89	-	X 0.664	-	X 0.664	-
SM	kg	X 0.781	-	-	-	-	-
RSF	MJ	-	-	-	-	-	-
RE	MJ	-	-	-	-	-	-
NRSF	MJ	-	-	-	-	-	-
FW	m <sup>3</sup>	X 1.003	-	X 0.664	-	X 0.664	-
Acronyms	PERE = Use of renewable primary energy excluding renewable primary energy resources used as raw materials; PERM = Use of renewable primary energy resources used as raw materials; PERT = Total use of renewable primary energy resources; PENRE = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials; PENRM = Use of non-renewable primary energy resources used as raw materials; PENRT = Total use of non-renewable primary energy re-sources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Use of net fresh water						

### Waste indicators

Indicator	Unit	A1-A3	C1	C2	C3	C4	D
HWD	kg	X 0.782	-	X 0.664	-	X 0.664	-
NHWD	kg	X 0.97	-	X 0.664	-	X 0.664	-
RWD	kg	X 1.627	-	X 0.664	-	X 0.664	-
HLRW	kg	X 1.907	-	X 0.664	-	X 0.664	-
ILLRW	kg	X 1.627	-	X 0.664	-	X 0.664	-
Acronyms	HWD = Disposed-of hazardous waste; NHWD = disposed-of non-hazardous waste; RWD = Radioactive waste disposed; HLRW = High-level radioactive waste, conditioned, to final repository; ILLRW = Intermediate- and low-level radioactive waste, conditioned, to final repository						

<sup>5</sup> This indicator accounts for all greenhouse gases except biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product. As such, the indicator is identical to GWP-total except that the CF for biogenic CO<sub>2</sub> is set to zero.

## Output flow indicators

Indicator	Unit	A1-A3	C1	C2	C3	C4	D
CRU	kg	-	-	-	-	-	-
MR	kg	-	-	-	-	-	-
MER	kg	-	-	-	-	-	-
EEE	MJ	-	-	-	-	-	-
EET	MJ	-	-	-	-	-	-
Acronyms	CRU = Components for reuse; MR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported electrical energy; EET = Exported thermal energy						

## Extrapolation of LCA results for GreenScreen Revive® 5% - Cut Mandatory impact category indicators according to EN 15804

Indicator	Unit	A1-A3	C1	C2	C3	C4	D
<i>IPCC</i>							
GWPI	kg CO <sub>2</sub> eq.	X 0.824	-	X 0.568	-	X 0.568	-
GWPe	kg CO <sub>2</sub> eq.	X 0.806	-	X 0.568	-	X 0.568	-
<i>TRACI</i>							
AP	kg SO <sub>2</sub> eq	X 0.664	-	X 0.568	-	X 0.568	-
EPfw	kg P eq	X 1.034	-	X 0.568	-	X 0.568	-
EPm	kg N eq	X 0.665	-	X 0.568	-	X 0.568	-
EP	kg N eq	X 0.99	-	X 0.568	-	X 0.568	-
ODP	kg CFC 11 eq	X 0.675	-	X 0.568	-	X 0.568	-
SFP	kg O <sub>3</sub> eq	X 0.66	-	X 0.568	-	X 0.568	-
<i>EN 15804+A2 (EF 3.1)</i>							
GWP, total	kg CO <sub>2</sub> eq	X 0.824	-	X 0.568	-	X 0.568	-
GWP, fossil	kg CO <sub>2</sub> eq	X 0.803	-	X 0.568	-	X 0.568	-
GWP, biogenic	kg CO <sub>2</sub> eq	X 1.061	-	X 0.568	-	X 0.568	-
GWP, land use	kg CO <sub>2</sub> eq	X 0.766	-	X 0.568	-	X 0.568	-
ODP	kg CFC 11 eq	X 0.674	-	X 0.568	-	X 0.568	-
AP	Mole of H <sup>+</sup> eq	X 0.667	-	X 0.568	-	X 0.568	-
EPf	kg P eq	X 1.034	-	X 0.568	-	X 0.568	-
EPm	kg N eq	X 0.717	-	X 0.568	-	X 0.568	-
EPt	Mole of N eq	X 0.668	-	X 0.568	-	X 0.568	-
POCP	kg NMVOC eq	X 0.636	-	X 0.568	-	X 0.568	-
ADP-elements	kg Sb eq	X 0.834	-	X 0.568	-	X 0.568	-
ADP-fossil fuel	MJ	X 0.777	-	X 0.568	-	X 0.568	-
Water	m <sup>3</sup> world equiv.	X 1.452	-	X 0.568	-	X 0.568	-
PM	Disease incidences	X 0.652	-	X 0.568	-	X 0.568	-
IRP	kBq U235 eq	X 1.088	-	X 0.568	-	X 0.568	-
ETP	CTUe	X 0.667	-	X 0.568	-	X 0.568	-
HTP-c	CTUh	X 0.84	-	X 0.568	-	X 0.568	-
HTP-nc	CTUh	X 1.002	-	X 0.568	-	X 0.568	-
SQP	Pt	X 0.669	-	X 0.568	-	X 0.568	-
Acronyms	GWPI = Global Warming Potential (100 years, incl. biogenic CO <sub>2</sub> ); GWPe – Global Warming Potential (100 years, excl. biogenic CO <sub>2</sub> ); AP = Acidification potential of soil and water; EPfw = Eutrophication potential – Freshwater; EPm = Eutrophication potential – Marine; EP = Eutrophication potential (calculated used TRACI 2.1); ODP – Depletion of stratospheric ozone layer; SFP = Smog Formation Potential; GWP-fossil = Global Warming Potential fossil fuels; GWP-biogenic = Global Warming Potential biogenic; GWP-luluc = Global Warming Potential land use and land use change; ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential, Accumulated Exceedance; EP-freshwater = Eutrophication potential, fraction of nutrients reaching freshwater end compartment; EP-marine = Eutrophication potential, fraction of nutrients reaching marine end compartment; EP-terrestrial = Eutrophication potential, Accumulated Exceedance; POCP = Formation potential of tropospheric ozone; ADP-minerals&metals = Abiotic depletion potential for non-fossil resources; ADP-fossil = Abiotic depletion for fossil resources potential; WDP = Water						

(user) deprivation potential, deprivation-weighted water consumption; PM = Potential incidence of disease due to PM emissions; IRP = Potential Human exposure efficiency relative to U235; ETP-fw = Potential Comparative Toxic Unit for ecosystems; HTP-c = Potential Comparative Toxic Unit for humans; HTP-nc = Potential Comparative Toxic Unit for humans; SQP = Potential soil quality index

### Additional mandatory and voluntary impact category indicators

Indicator	Unit	A1-A3	C1	C2	C3	C4	D
GWP-GHG <sup>6</sup>	kg CO <sub>2</sub> eq.	X 0.806	-	X 0.568	-	X 0.568	-

### Carbon emissions and removals

Indicator	Unit	A1-A3	C1	C2	C3	C4	D
BCRP	kg CO <sub>2</sub>	-	-	-	-	-	-
BCEP	kg CO <sub>2</sub>	-	-	-	-	-	-
BCRK	kg CO <sub>2</sub>	X 1	-	-	-	-	-
BCEK	kg CO <sub>2</sub>	-	-	-	-	-	-
BCEW	kg CO <sub>2</sub>	-	-	-	-	-	-
CCE	kg CO <sub>2</sub>	-	-	-	-	-	-
CCR	kg CO <sub>2</sub>	-	-	-	-	-	-
CWNR	kg CO <sub>2</sub>	-	-	-	-	-	-
Acronyms	BCRP = Biogenic Carbon Removal from Product; BCEP = Biogenic Carbon Emission from Product; BCRK = Biogenic Carbon Removal from Packaging; BCEK = Biogenic Carbon Emission from Packaging; BCEW = Biogenic Carbon Emission from Combustion of Waste from Renewable Sources Used in Production Processes; CCE = Calcination Carbon Emissions; CCR = Carbonation Carbon Removals; CWNR = Carbon Emissions from Combustion of Waste from Non-Renewable Sources Used in Production Processes						

### Resource use indicators

Indicator	Unit	A1-A3	C1	C2	C3	C4	D
PERE	MJ	X 0.575	-	X 0.568	-	X 0.568	-
PERM	MJ	X 1.1	-	-	-	-	-
PERT	MJ	X 0.667	-	X 0.568	-	X 0.568	-
PENRE	MJ	X 0.839	-	X 0.568	-	X 0.568	-
PENRM	MJ	X 0.469	-	-	-	-	-
PENRT	MJ	X 0.777	-	X 0.568	-	X 0.568	-
SM	kg	X 0.667	-	-	-	-	-
RSF	MJ	-	-	-	-	-	-
RE	MJ	-	-	-	-	-	-
NRSF	MJ	-	-	-	-	-	-
FW	m <sup>3</sup>	X 0.913	-	X 0.568	-	X 0.568	-
Acronyms	PERE = Use of renewable primary energy excluding renewable primary energy resources used as raw materials; PERM = Use of renewable primary energy resources used as raw materials; PERT = Total use of renewable primary energy resources; PENRE = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials; PENRM = Use of non-renewable primary energy resources used as raw materials; PENRT = Total use of non-renewable primary energy resources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Use of net fresh water						

### Waste indicators

Indicator	Unit	A1-A3	C1	C2	C3	C4	D
HWD	kg	X 0.67	-	X 0.568	-	X 0.568	-
NHWD	kg	X 0.864	-	X 0.568	-	X 0.568	-
RWD	kg	X 1.425	-	X 0.568	-	X 0.568	-
HLRW	kg	X 1.674	-	X 0.568	-	X 0.568	-
ILLRW	kg	X 1.425	-	X 0.568	-	X 0.568	-
Acronyms	HWD = Disposed-of hazardous waste; NHWD = disposed-of non-hazardous waste; RWD = Radioactive waste disposed; HLRW = High-level radioactive waste, conditioned, to final repository; ILLRW = Intermediate- and low-level radioactive waste, conditioned, to final repository						

### Output flow indicators

Indicator	Unit	A1-A3	C1	C2	C3	C4	D
CRU	kg	-	-	-	-	-	-
MR	kg	-	-	-	-	-	-
MER	kg	-	-	-	-	-	-

<sup>6</sup> This indicator accounts for all greenhouse gases except biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product. As such, the indicator is identical to GWP-total except that the CF for biogenic CO<sub>2</sub> is set to zero.

EEE	MJ	-	-	-	-	-	-
EET	MJ	-	-	-	-	-	-
Acronyms	CRU = Components for reuse; MR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported electrical energy; EET = Exported thermal energy						

## CERTIFICATIONS AND EMISSIONS

Additional certifications are shown in the table below.

Evolve®	Revive®
HPD	HPD
C2C	
GREENGUARD™/ GREENGUARD™ Gold	GREENGUARD™/ GREENGUARD™ Gold
Declare	Declare

To align with Mermet’s C2C certification, the following information is reported for the final manufacturing stage of GreenScreen Evolve® and GreenScreen Revive®.

Scope	Emissions
Scope 1 (direct emissions)	27.23 MT CO <sub>2</sub> e
Scope 2 Market Based (market-based indirect emissions)	2.50 MT CO <sub>2</sub> e
Scope 2 Location Based (location-based indirect emissions)	2.51 MT CO <sub>2</sub> e

To reduce environmental impacts, Mermet purchased Green-e® Energy certified Renewable Energy Attribute Certificates (RECs) to match 5% of the electricity used for the final manufacturing stage of GreenScreen Evolve® and GreenScreen Revive®.

Additionally, Mermet purchased carbon offsets to offset 5% of the resulting greenhouse gas emissions from the final manufacturing stage of GreenScreen Evolve® and GreenScreen Revive®.

RECs and carbon offsets were not used in calculating the LCA results shown in this EPD and are not verified.

## ABBREVIATIONS

Abbreviation	Definition
<b>General Abbreviations</b>	
GPI	General Programme Instructions
ISO	International Organization for Standardization
CEN	European Committee for Standardization
CPC	Central product classification
SVHC	Substances of Very High Concern
ND	Not Declared
NA	North America
LCI	Life Cycle Inventory

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## VERSION HISTORY

Original Version of the EPD, 2026-04-01

