

# Advance™ Modular Carpet Tile



## Environmental Product Declaration

EPD of multiple products, based on several representative products: Advance™ Modular Carpet Tile with Encore® SD Ultima® Nylon, Encore®100 Nylon or TeraPlex®SD PET.

Product recently on the market – Results of this EPD shall be used with care as the LCI data is not yet based on 1 year of production which may result in increased uncertainty.

Programme: The International EPD® System. www.environdec.com

Programme operator: EPD International AB

Licensee: EPD North America (www.epdna.com)

EPD registration number: S-P-16496
Publication Date: 2024-10-01
Valid Until: 2029-10-01

In accordance with ISO 14025:2006 and ISO 21930

This EPD does not comply with EN15804+A2.





Programme and Programme Operator	The International EPD® System EPD International AB Box 210 60 SE-100 31 Stockholm Sweden www.environdec.com info@environdec.com
General Program instructions and Version Number <sup>1</sup>	General Programme Instructions for the International EPD® System. Version 5.0. 2024-06-19
<b>EPD Owner</b> The EPD owner has the sole ownership, liability, and responsibility for the EPD.	EF Contract 1502 Coronet Drive Dalton, GA 30720
LCA Practitioner This life cycle assessment was conducted in accordance with ISO 14044 and the reference PCR by the LCA practitioner.	WAP Sustainability Consulting 103 Powell Ct, Suite 200 Brentwood, TN 37027
Declaration Number	S-P-16496
Declared Product and Functional Unit	Advance™ Modular Carpet Tile 1 m² of installed flooring and with a building service life of 75 years
Reference PCR and Version Number <sup>2</sup>	UL Part A: Life Cycle Assessment Calculation Rules and Report Requirements, Version 4.0 UL Part B: Flooring EPD Requirements. UL 10010-7, September 28, 2018
Product's intended Application and Use	Commercial Flooring Applications
Product RSL	30 years
Markets of Applicability	North America
Date of Issue	2024-10-01
Period of Validity	5 years from date of issue
EPD Type	Product Specific
Range of Dataset Variability	N/A
	Cradle to Grave
EPD Scope	
Year of reported manufacturer primary data	2022
LCA Software and Version Number	MLC Database 2024.1 (formerly GaBi Database)
LCI Database and Version Number	LCA FE 10.9 (formerly GaBi)
LCIA Methodology and Version Number	TRACI 2.1 CML 2001-Jan 2016 IPCC AR6
Part A PCR review was conducted by:	Lindita Bushi, PhD, Chair Hugues Imbeault-Tétreault, Eng.,M.A. Sc. Jack Geibig
The sub-category PCR review was conducted by:	Jack Geibig (Chair) Thomas Gloria, PhD Thaddeus Owen
External and independent third-party verification of the declaration and data, according to ISO 14025:2006, via:	<ul> <li>☑ EPD verification through an individual EPD verification</li> <li>☐ EPD verification through an EPD Process certification</li> <li>☐ EPD verification through a pre-verified LCA/EPD tool</li> </ul>
This declaration was independently verified in accordance with ISO 14025: 2006. The UL Environment "Part A: Calculation Rules for the Life Cycle Assessment and Requirements on the Project Report," v4.0, based on CEN Norm EN 15804 (2012) and ISO 21930:2017, serves as the core PCR, with additional considerations from the USGBC/UL Environment Part A Enhancement (2017)  ☐ Internal ☑ External	James Mellentine, Thrive ESG Approved by: The International EPD® System
This life cycle assessment was independently verified in accordance with ISO 14044 and the reference PCR by:	James Mellentine, Thrive ESG
The procedure for follow-up of data during EPD validity, as defined by the GPI, involves third party verifier:	☑ Yes ☐ No
1 Not all requirements in the GDI are fulfilled, particularly the requirement for construct	tion products to follow EN 15804 for cortain aspects of the LCA method

1 Not all requirements in the GPI are fulfilled, particularly the requirement for construction products to follow EN 15804 for certain aspects of the LCA method. 2 This EPD is based on a PCR that satisfies procurement rules at the federal, state, and municipal levels which call for EPDs based on the UL Part B PCR. The UL Part B PCR was used to meet regulatory (example: Buy Clean California Act, etc.) and market expectations (example: Building Transparency EC3 comparisons, LEED and existing vendor procurement requirements, product scoring programs, etc.). The EPD should not be used outside of this context.

Environmental declarations from different programs (ISO 14025) may not be comparable.

Comparison of the environmental performance of Flooring Products using EPD information shall be based on the product's use and impacts at the building level, and therefore EPDs may not be used for comparability purposes when not considering the building energy use phase as instructed under this PCR. Full conformance with the PCR for Products allows EPD comparability only when all stages of a life cycle have been considered. However, variations and deviations are possible". Example of variations: Different LCA software and background LCI datasets may lead to differences results for upstream or downstream of the life cycle stages declared.



## Information about EPD owner

## **Company Description**

EF Contract (EFC) is part of the fastest-growing, most progressive family of flooring companies, Engineered Floors. We stand for confidence in quality, relentless service and doing right by all. Our products are inspired by you: offering the carpet and hard-surface flooring that you want and need, that you've been seeking but unable to find, until now. Every collection, pattern and colorway are created with best-in-class performance and in pursuit of design that is simply beautiful. That guiding ethic continues today as EF Contract strives to positively impact our associates, customers, and community on a daily basis. By putting our people first, we produce products with pride, provide value to our customers and make a difference in our community. Our commitment to our associates and their families, as well as our larger community, requires EF Contract to provide gainful employment and economic development. In 2018, EF Contract joined Engineered Floors, LLC. Engineered Floors, LLC is a privately held flooring producer founded by Robert E. Shaw in 2009 and based in Dalton, Ga., with facilities in Calhoun and Dalton, Ga. Engineered Floors employs approximately 5000 people. The organization has procedures in place for keeping itself updated with relevant process- and product-related legislation and has access to all specific information of relevance concerning processes and products for the actual product category issued by central legislative authorities.

**EPD Owner** 

**EF Contract** 1502 Coronet Dr Dalton, GA 30720 LCA Practitioner

**WAP Sustainability Consulting** 103 Powell Ct, Suite 200 Brentwood, TN 37027



## **Product Information**

#### **Product Description**

EF Contract's collection of Advance™ Modular carpet tiles work beautifully, whether specified alone or with one of our many broadloom options. Advance™ Modular carpet tiles styles are produced in Dalton, GA. They are made with nylon or PET face fiber. This EPD includes results for Encore® SD Ultima® Nylon—25% post-industrial recycled nylon, Encore®100 Nylon—100% post-industrial recycled nylon, and TeraPlex® SD polyester fiber. Advance™ Modular carpet tiles feature a high-performance polyolefin backing. A representative product within the Advance™ Modular carpet tile family was chosen. The composition within the Advance™ Modular carpet tile family of products does not differ other than pigments and patterns used to give each style of carpet tile its own distinct appearance. The variation in terms of pigments used is less than 5% of the total product weight and is excluded from the study. This EPD covers all styles and colors under the Advance™ Modular carpet tile product family utilizing the yarn systems covered. Specific products can be found on EFC's website. Each style, combined with our Advance™ Modular backing, continues our over 55-year tradition of combining performance and appealing design. Pair your imagination with our comprehensive product choices on your next project and create your own dramatic statement.

Advance™ Modular carpet tiles is within CSI Master Format section 09 68 13, UN CPC 27230.

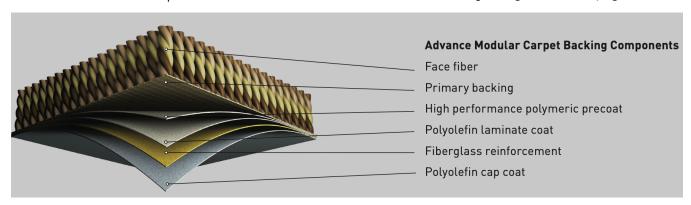


Figure 1: Product Construction

## **Application**

EF Contract's Advance™ Modular carpet tile is intended for use as a soft floor covering in medium-to-high traffic commercial applications such as retail, healthcare, education, corporate, public spaces, and institutional environments. Additional product information may be found on EF Contract's website.



Figure 2: Product Application



# **Properties of Declared Product as Delivered**

The product is usually delivered packaged in a cardboard box with plastic film and paper to protect the tiles during shipping. These are usually shipped in tile/plank sizes of 12"x 48", 18"x 36", 24"x 24".

Table 1: Technical Data

Parameter	Value
Tile Size	12"X 48" 18"X 36"
THE SIZE	24"X 24"
Yarn Type	PET or Nylon
Primary backing type	PET
Secondary backing type	Fiberglass reinforced polyolefin
TARR rating	≤3.5
Total thickness	8.37 – 13.3mm
Product weight (190z face weight)	2.97 kg/m²
Range of product weights covered by EPD	2.74-3.75 kg/m2
Surface pile thickness	2.41 – 5.22 mm
Surface pile weight (190z face weight)	0.64 kg/m²
Range of surface pile weights covered by EPD	0.41-1.42 kg/m²

Table 2: Performance Testing

	Standard	Value
Flooring Radiant Panel	ASTM E648	Class 1; ≥ 0.45 watts/cm2
Smoke Density	ASTM E662	≤ 450
Static Test	AATCC-134	Less than 3kv
ADA Compliance		Compliance for Accessible
ADA Compliance		Routes



## **Content Declaration**

## **Manufacturing and Packaging**

Manufacturing takes place in North America. The manufacturing process starts with fiber production. This includes taking virgin and post-industrial recycled content nylon (or PET) granulate feedstock (Encore® SD Ultima® Nylon—25% post-industrial recycled nylon, Encore®100 Nylon—100% post-industrial recycled nylon, and TeraPlex® SD polyester fiber) and extruding fibers. These individual fibers may then go through the processes of air entangling, twisting, or heatsetting to create yarn which is then tufted to a primary backing. The primary backing material differs based on the type of backing being produced. The next step is coating which affixes secondary thermoset (latex) backing to tufted fiber and primary backing. Then, the extruded secondary thermoplastic backing (polyolefin) with fiberglass sheet is applied to the tufted goods. The last step is cutting into tile and packaging for shipment. No substances required to be reported as hazardous waste are associated with the production of this product.

Table 3: Product Composition

Material	Percent
Polyolefin	57%
Nylon or PET	22%
Calcium Carbonate	14%
PET	3%
Fiberglass	3%

Table 4: Packaging

Material	Value [kg per m²]	Biogenic material, [kg C/m²]
Cardboard	6.70E-02	2.89E-02
Plastic Film	1.00E-03	=

## **Transportation**

It is assumed that all raw materials are distributed by truck. Transport of raw material from supplier to the manufacturing facility was calculated for each raw material using primary data. Average distance to installation site was calculated to be 200 miles from the EF Contract facility in 2022.

#### **Product Installation**

The product is usually delivered to the customer via truck, depending on the location of the enduser. Detailed installation instructions are provided online. Installation equipment is required though not included in the study as these are multi-use tools and the impacts per declared unit is considered negligible. Packaging waste is generated and disposed of in this stage. For Advance™ Modular carpet tile, EF CONTRACT requires the use Advance™ Modular Pressure Sensitive Adhesive for installation. It is a superior-performance, acrylic-latex, pressure-sensitive adhesive that is specifically formulated for installing carpet tiles (modules). Because of its low odor and low VOCs, Advance™ Modular Pressure Sensitive Adhesive is ideally suited for use in health-conscious environments where odors associated with new installation are undesirable. It has great rebound to allow simple, fast removal and replacement of modular floor coverings. It is recommended over virtually all smooth surfaces, including nonporous substrates.



#### Use

The table below shows the parameters for the use phase scenario while Table 13 shows the total material and energy inputs required in the study. Detailed maintenance instructions are provided on EFC's website: https://www.efcontractflooring.com/technical/installation-maintenance/.

Table 5: Maintenance Procedure

Maintenance	Count	Unit
Vacuum	250	#/ year
Spot Check/ Clean	2	#/ year

#### Reference Service Life and Estimated Building Service Life

The reference service life of Advance<sup>™</sup> Modular Carpet Tile is assumed to be 15 years given that the product is installed as per manufacturer guidelines. Therefore, after initial installation in a building with an estimated service life (ESL) of 75 years there will be 4 replacements needed.

# Reuse, Recycling and Energy Recovery

EF Contract, as a brand of the larger Engineered Floors family, offers customers the opportunity to use our Carpet Reclamation Program. With this program we facilitate the reclamation of used carpet and guarantee that it will not reach a landfill. To initiate the carpet reclamation process, please see the website, call 1.800.241.4586, or email reclamation@engineeredfloors.com. In addition to reclaiming used carpet, old flooring can be safely disposed of in municipal landfills or sent to waste-to-energy facilities (subject to local regulations).

## Disposal

The product is considered to be 100% landfilled as specified in Sections 2.8.5 and 2.8.6 of Part A: Life Cycle Assessment Calculation Rules and Report Requirements from UL Environment.



# Life Cycle Assessment Information

## Flow Diagram

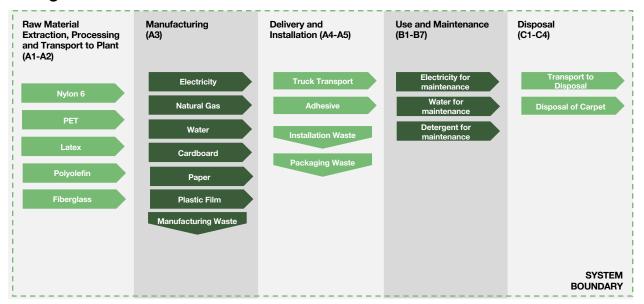


Figure 3: System Boundary - Cradle-to-Grave

## **Declaration of Methodological Framework**

The LCA follows an attributional approach.

#### **Functional Unit**

The functional unit of the flooring product is one (1) m<sup>2</sup> of floor covering.

Table 6: Functional Unit Details

Functional Unit	Mass [kg/m²]	Yarn Weight [kg]	Thickness [mm]
1m²	2.97	0.54 (19oz)	8.37 – 13.3mm

# **System Boundary**

This EPD is a Cradle-to-Grave study.

Table 7: System Boundary and Modules

Module Name	Description	Analysis Period	Summary of Included Elements
A1	Product Stage: Raw Material Supply	2022	Raw Material sourcing and processing as defined by secondary data.
A2	Product Stage: Transport	2022	Shipping from supplier to manufacturing site. Fuel use requirements estimated based on product weights and estimated distance.
A3	Product Stage: Manufacturing	2022	Energy inputs required for manufacturing products from raw materials. Packaging materials and manufacturing waste are included as well.



Module Name	Description	Analysis Period	Summary of Included Elements			
A4	Construction Process Stage: Transport	2022	Shipping from manufacturing site to project site. Fuel use requirements estimated based on product weights and mapped distance.			
A5	Construction Process Stage: Installation	2022	Installation materials, installation waste and packaging material waste.			
B1	Use Stage: Use	2022	Use of the product.			
B2	Use Stage: Maintenance	2022	Cleaning energy, water, and materials, including refinishing the product.			
B3	Use Stage: Repair	2022	Product typically not repaired during use.			
B4	Use Stage: Replacement	2022	Total materials and energy required to manufacture a replacement.			
B5	Use Stage: Refurbishment	2022	Product typically not refurbished during use.			
B6	Operational Energy Use	2022	Operational Energy Use of Building Integrated System During Product Use			
В7	Operational Water Use	2022	Operational Water Use of Building Integrated System During Product Use			
C1	EOL: Deconstruction	2022	No inputs required for deconstruction.			
C2	EOL: Transport	2022	Shipping from project site to waste disposal.			
C3	EOL: Waste Processing	2022	Waste processing if incineration as chosen disposal pathway per Part A of the PCR.			
C4	EOL: Disposal	2022	Disposal modeled by region as per Part A of the PCR.			
D	Benefits beyond system	MND	Credits from energy or material capture.			

#### **Software**

Sphera LCA for Experts 2024.1.

#### **Estimates and Assumptions**

All estimates and assumptions are within the requirements of ISO 14040/44. The majority of the estimations are within the primary data. The primary data was collected as annual totals for utility usage and production and waste volume. For the LCA, utility usage and waste volume were divided by total production to determine utility use and waste production per square meter. Infrastructure and capital goods are excluded from this LCA in alignment with GPI 5.0. Additionally, it is assumed that installation tools are used enough times that the per square meter impacts are negligible.

#### **Cut-Off Criteria**

All inputs in which data was available were included. Material inputs greater than 1% (based on total mass of the final product) were included within the scope of analysis. Material inputs less than 1% were included if sufficient data was available to warrant inclusion and/or the material input was thought to have significant environmental impact. No known flows are deliberately excluded from this EPD. Cumulative excluded material inputs and environmental impacts are less than 5% based on total weight of the functional unit.

#### **Data Sources**

For all manufacturing processes, primary data were collected by facility personnel and utility bills. Whenever available, supplier data was used for raw materials used in the production process. When primary data did not exist, secondary data for raw material production was utilized from Sphera MLC Database 2023.02.



## **Data Quality**

The geographical scope of all life cycle modules is United States. All primary data were collected from the manufacturer. The geographic coverage of primary data is considered excellent. The primary data provided by the manufacturer represent all information for calendar year 2022. Time coverage of this data is considered good. Primary data provided by the manufacturer is specific to the technology used in manufacturing their product. It is site-specific and considered of good quality. Data necessary to model cradle-to-gate unit processes was sourced from Sphera Managed LCA Content LCI datasets. Improved life cycle data from suppliers would improve technological coverage.

Table 8: Declaration of sources and share of primary data.

Process	Source type	Source	Reference year	Data category	Share of primary data, of GWP GHG results for A1- A3 <sup>1</sup>
Production of Yarn	Database	Sphera LCA for experts 2024.1	2022	26% Primary data, 74% Generic data	15%
Generation of electricity used in manufacturing product	Database	Sphera LCA for experts 2024.1	2022	Primary data	15%
Production of Coating	Database	Sphera LCA for experts 2022 2024.1		Secondary data	0%
Generation and use of natural gas in manufacturing	Database	Sphera LCA for experts 2024.1	2022	Primary data	7%
Production of Pre- coat	Database	Sphera LCA for experts 2024.1	2022	Secondary data	0%
Transportation	Database	Sphera LCA for experts 2024.1	2022	Primary data	1%
Other processes	Database	Sphera LCA for experts 2024.1	Sphera LCA for experts 2022 Secondary c 2024.1		0%
Total share of prima	38%				

<sup>&</sup>lt;sup>1</sup>The share of primary data is calculated based on GWP-GHG results. It is a simplified indicator for data quality that do not capture all relevant aspects of data quality. The indicator is not comparable across product categories.

#### **Period Under Review**

The period under review is calendar year 2022. While the subject product is recently on the market, the primary data is based on a full year of production of a very similar product made at the same site and with the same process and equipment as the subject product.

#### Allocation

General principles of allocation were based on ISO 14040/44. To derive a per-unit value for manufacturing electricity, physical allocation of manufacturing inputs and outputs was adopted. For facilities producing fiber and yarn, allocation was performed based on mass. For facilities producing



carpet, allocation was performed based on area since the production processes are similar for products of different weights. Allocation by weight and area was deemed appropriate for the type of production used at EF CONTRACT facilities. As a default, secondary Sphera Managed LCA Content 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.

## **Comparability and Benchmarking**

The user of the EPD should take care when comparing EPDs from different companies. Assumptions, data sources, and assessment tools may all impact the uncertainty of the final results and make comparisons misleading. Without understanding the specific variability, the user is therefore, not encouraged to compare EPDs. Even for similar products, differences in use and end-of-life stage assumptions, and data quality may produce incomparable results. Comparison of the environmental performance of Flooring Products using EPD information shall be based on the product's use and impacts at the building level, and therefore EPDs may not be used for comparability purposes when not considering the building energy use phase as instructed under this PCR. Full conformance with the PCR for Products allows EPD comparability only when all stages of a life cycle have been considered. However, variations and deviations are possible. Example of variations: Different LCA software and background LCI datasets may lead to differences results for upstream or downstream of the life cycle stages declared.

Table 9: Life Cycle Stages Included in the Study

	Prod	duction	า	Constr	uction		Use End				End o	of Life		Benefits & Loads Beyond System Boundary			
Module	A1	A2	А3	A4	A5	B1	B2	Вз	B4	B5	В6	B7	C1	C2	С3	C4	D
Module Description	Raw Material Supply	Transport	Manufacturing	Transport to Site	Assembly/Install	Use	Maintenance	Repair	Replacement	Refurbishment	Operational Energy Use	Operational Water Use	Deconstruction	Transport	Waste Processing	Disposal	Reuse, Recovery, Recycling Potential
Modules Declared	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Χ	X	MND
Geography	United States																

X = Module Included in LCA Report, MND = Module not Declared



# **Life Cycle Assessment Scenarios**

Table 10: Transportation to Building Site (A4)

	Shipping
Vehicle Type	Truck - Heavy Heavy-duty Diesel Truck / 53,333 lb payload - 8b
Fuel Efficiency [L/100km]	42
Fuel Type	Diesel
Distance [km]	800
Capacity Utilization [%]	68%
Capacity Utilization Volume Factor	1
Weight of Products Transported [kg]	3.14
Volume of Products Transported [m³]	2.02E-03

Table 11: Reference Service Life

Name	Reference Product
RSL [years]	15
Declared product properties (at the gate) and finishes, etc.	See Table 1 for technical details
An assumed quality of work, when installed in accordance with the manufacturer's instructions	Per industry standards
Maintenance	See Use section below for maintenance instructions
Indoor Environment	Standard building operating conditions.
Use Conditions	Standard building operating conditions.

Table 12: Installation at building site (A5)

	Value [kg per m²]				
Adhesive	1.15E-01				
Product loss (to landfill) per m² of product	5.94E-02				
Waste materials at the construction site before waste processing, generated by product installation [kg]	6.80E-02				
Cardboard Packaging Waste to Landfill	1.34E-02				
Cardboard Packaging Waste to Incineration	3.35E-03				
Cardboard Packaging Waste to Recycling	5.02E-02				
Plastic to Landfill	6.80E-04				
Plastic to Incineration	1.70E-04				
Plastic to Recycling	1.50E-04				
Biogenic Carbon Content of Packaging					
Cardboard [kg CO₂eq.]	1.06E-01				



Table 13: Maintenance (B2)

Activity	Details	Value	Unit
	Frequency	18,750	Cycles/ ESL
Vacuum	Electricity for vacuuming	0.95	kWh/m²/yr
	Power output of vacuum	1,650	W
	Frequency	150	Cycles/ ESL
	Net freshwater consumption	1.9	kg/m²/yr
Deep Cleaning	Detergent for deep cleaning	0.1	kg/m²/yr
	Electricity for deep cleaning	0.05	kWh/m²/yr
	Power output of commercial carpet cleaner	1,400	W

Table 14: End-of-Life Scenario Details (C1-C4)

	Value
Collected as mixed construction waste [kg]	3.09
Waste to Landfill [kg]	3.09
Distance to Landfill [km]	161
Waste to Incineration [kg]	0
Distance to Incineration [km]	N/A
Waste to Recycling [kg]	0
Distance to Recycling [km]	N/A

Table 15: Transport to End-of-Life (C1-C4) per m² of product.

End-of-Life Transportation Parameter	Value
Vehicle Type	Truck - Heavy Heavy-duty Diesel Truck / 53,333 lb payload - 8b
Fuel Efficiency [L/100km]	42
Fuel Type	Diesel
Distance [km]	161
Capacity Utilization [%]	67%
Weight of Products Transported [kg]	3.09



# **Environmental Performance**

All results are given per functional unit, which is 1 m² of installed flooring over an estimated building life of 75 years. The results of the end-of-life stage (module C) should be considered when using the results of the production stage. Environmental Impacts were calculated using the Sphera LCA for Experts software platform. Impact results have been calculated using IPCC AR6, TRACI 2.1 and CML 2001-Jan 2016 characterization factors. LCIA results are relative expressions and do not predict impacts on category endpoints, the exceeding of thresholds, safety margins or risks. The abbreviations section gives definitions of relevant acronyms.

To account for the variety in face weights and yarn type, four sets of results—16oz face weight, 19oz face weight, 26 oz face weight, and 36oz face weight—are provide per yarn type—Encore® SD Ultima, Encore® 100, and Teraplex® SD PET.

In terms of Global Warming Potential, B4 and B2 emerge as the major contributors. This follows the fact that with an RSL of 15 years, there are 4 replacements that need to occur during the 75 years of building operation, apart from the initial product installation. This includes raw material extraction, manufacturing, distribution, install and end of life (for replaced product) for every replacement. This causes impacts from B4 to overshadow impacts from any other phase in the life cycle.

If the impacts from B4 are set aside to observe impacts from other phases, B2 emerges as a major contributor over a 75-year ESL of the building. This is primarily due to the consumption of energy and resources used to maintain carpet tile over the course of its lifetime. Figure 4 shows the dominance analysis to highlight which of the life cycle modules contributes to the majority of the impacts.

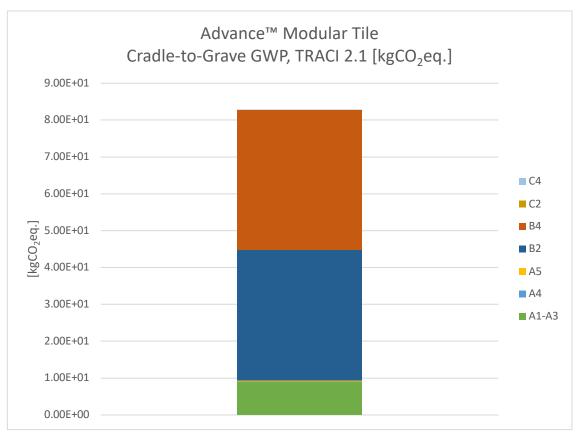


Figure 4: Global Warming Potential Over Estimated Service Life (75 years).



# EF Contract Advance™ Modular Carpet Tile - Encore® SD Ultima® Nylon Results (19oz face weight)

Table 16: LCIA results per one square meter of installed Advance™ Modular Carpet Tile - Encore® SD Ultima® Nylon Results (19 oz face weight).

Impact Category	A1-A3	A4	A5	B1	В2	В3	В4	B5	В6	В7	C1	C2	C3	C4	D
IPCC AR6															
GWPi [kg CO₂ eq]	9.52E+00	1.97E-01	2.41E-01	0.00E+00	3.60E+01	0.00E+00	4.02E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E-02	0.00E+00	6.40E-02	MND
GWPe [kg CO₂ eq]	9.59E+00	1.97E-01	2.34E-01	0.00E+00	3.60E+01	0.00E+00	4.05E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-02	0.00E+00	6.43E-02	MND
CML LCIA Impacts (Euro	pe, Rest of	World)													
GWP [kg CO₂ eq]	9.42E+00	1.96E-01	2.38E-01	0.00E+00	3.58E+01	0.00E+00	3.98E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-02	0.00E+00	6.35E-02	MND
ODP [kg CFC 11 eq]	1.13E-08	3.42E-14	2.25E-10	0.00E+00	2.52E-10	0.00E+00	4.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E-15	0.00E+00	1.82E-13	MND
AP [kg SO₂ eq]	2.79E-02	6.66E-04	6.35E-04	0.00E+00	4.29E-02	0.00E+00	1.18E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.16E-05	0.00E+00	3.14E-04	MND
EP [kg Phosphate eq]	1.77E-03	1.76E-04	6.54E-05	0.00E+00	6.72E-03	0.00E+00	1.04E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-05	0.00E+00	5.68E-04	MND
POCP [kg Ethene eq]	3.42E-03	-2.46E-04	7.28E-05	0.00E+00	4.22E-03	0.00E+00	1.30E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-2.83E-05	0.00E+00	2.46E-05	MND
ADPE [kg Sb eq]	1.38E-05	2.75E-08	3.62E-07	0.00E+00	5.41E-06	0.00E+00	5.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.41E-09	0.00E+00	2.07E-08	MND
ADPF [MJ]	1.91E+02	2.58E+00	4.36E+00	0.00E+00	4.48E+02	0.00E+00	7.97E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.08E-01	0.00E+00	9.47E-01	MND
TRACI LCIA Impacts (No	rth America	a)													
AP [kg SO₂ eq]	2.72E-02	9.14E-04	6.42E-04	0.00E+00	4.52E-02	0.00E+00	1.17E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04	0.00E+00	3.34E-04	MND
EP [kg N eq]	1.43E-03	8.12E-05	4.93E-05	0.00E+00	1.03E-02	0.00E+00	8.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05	0.00E+00	4.48E-04	MND
GWP [kg CO₂ eq]	9.33E+00	1.95E-01	2.27E-01	0.00E+00	3.53E+01	0.00E+00	3.94E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-02	0.00E+00	6.30E-02	MND
ODP [kg CFC 11 eq]	1.22E-08	5.81E-16	2.45E-10	0.00E+00	4.25E-12	0.00E+00	5.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-16	0.00E+00	3.08E-15	MND
Resources [MJ]	2.50E+01	3.70E-01	5.70E-01	0.00E+00	4.37E+01	0.00E+00	1.05E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.29E-02	0.00E+00	1.27E-01	MND
POCP [kg O₃ eq]	2.26E-01	2.10E-02	5.94E-03	0.00E+00	6.78E-01	0.00E+00	1.04E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-03	0.00E+00	5.97E-03	MND
Carbon Emissions and U	ptake														
BCRP [kg CO₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
BCEP [kg CO₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
BCRK [kg CO₂]	1.06E-01	0.00E+00	2.11E-03	0.00E+00	0.00E+00	0.00E+00	4.31E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
BCEK [kg CO₂]	0.00E+00	0.00E+00	1.08E-01	0.00E+00	0.00E+00	0.00E+00	4.23E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
BCEW [kg CO₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
CCE [kg CO₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
CCR [kg CO₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
CWNR [kg CO₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND



Table 17: Resource use, waste, and output flow results per one square meter of installed Advance™ Modular Carpet Tile - Encore® SD Ultima® Nylon Results (19 oz face weight).

Impact Category	A1-A3	A4	A5	В1	B2	В3	В4	В5	В6	В7	C1	C2	C3	C4	D
Resource Use Indicators															
RPR <sub>E</sub> [MJ]	1.24E+01	1.15E-01	2.82E-01	0.00E+00	1.60E+02	0.00E+00	5.18E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-02	0.00E+00	1.21E-01	MND
RPR <sub>M</sub> [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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
RPR <sub>T</sub> [MJ]	1.24E+01	1.15E-01	2.82E-01	0.00E+00	1.60E+02	0.00E+00	5.18E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-02	0.00E+00	1.21E-01	MND
NRPR <sub>E</sub> [MJ]	1.80E+02	2.60E+00	4.17E+00	0.00E+00	6.17E+02	0.00E+00	7.53E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.13E-01	0.00E+00	9.76E-01	MND
NRPR <sub>M</sub> [MJ]	2.90E+01	0.00E+00	5.79E-01	0.00E+00	0.00E+00	0.00E+00	1.18E+02	0.00E+00	MND						
NRPR <sub>T</sub> [MJ]	2.09E+02	2.60E+00	4.75E+00	0.00E+00	6.17E+02	0.00E+00	8.71E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.13E-01	0.00E+00	9.76E-01	MND
SM [kg]	3.82E-02	0.00E+00	7.64E-04	0.00E+00	0.00E+00	0.00E+00	1.56E-01	0.00E+00	MND						
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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
FW [m³]	3.03E-02	3.83E-04	7.62E-04	0.00E+00	2.56E-01	0.00E+00	1.26E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.54E-05	0.00E+00	1.26E-04	MND
Output Flows and Waste	Categorie	s													
HWD [kg]	1.75E-06	3.51E-10	3.52E-08	0.00E+00	3.25E-07	0.00E+00	7.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.91E-11	0.00E+00	2.41E-10	MND
NHWD [kg]	5.17E-01	2.59E-04	8.14E-02	0.00E+00	2.59E-01	0.00E+00	1.43E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.11E-05	0.00E+00	2.97E+00	MND
HLRW [kg]	7.47E-06	9.31E-09	1.62E-07	0.00E+00	7.21E-05	0.00E+00	3.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-09	0.00E+00	1.16E-08	MND
ILLRW [kg]	6.28E-03	7.84E-06	1.36E-04	0.00E+00	6.02E-02	0.00E+00	2.57E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-06	0.00E+00	1.04E-05	MND
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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
MR [kg]	0.00E+00	0.00E+00	1.01E-01	0.00E+00	0.00E+00	0.00E+00	4.03E-01	0.00E+00	MND						
MER [kg]	0.00E+00	0.00E+00	3.52E-03	0.00E+00	0.00E+00	0.00E+00	1.41E-02	0.00E+00	MND						
EEE [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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
EET [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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND



# EF Contract Advance™ Modular Carpet Tile - Encore® 100 Nylon Results (19oz face weight)

Table 18: LCIA results per one square meter of installed Advance™ Modular Carpet Tile - Encore® 100 Nylon Results (19 oz face weight).

Impact Category	A1-A3	A4	A5	B1	B2	В3	В4	B5	В6	В7	C1	C2	C3	C4	D
IPCC AR6															
GWPi [kg CO₂ eq]	5.74E+00	1.97E-01	1.65E-01	0.00E+00	3.60E+01	0.00E+00	2.48E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E-02	0.00E+00	6.40E-02	MND
GWPe [kg CO₂ eq]	5.81E+00	1.97E-01	1.58E-01	0.00E+00	3.60E+01	0.00E+00	2.51E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-02	0.00E+00	6.43E-02	MND
CML LCIA Impacts (Euro	pe, Rest of	World)													
GWP [kg CO₂ eq]	5.69E+00	1.96E-01	1.63E-01	0.00E+00	3.58E+01	0.00E+00	2.46E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-02	0.00E+00	6.35E-02	MND
ODP [kg CFC 11 eq]	1.13E-08	3.42E-14	2.25E-10	0.00E+00	2.52E-10	0.00E+00	4.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E-15	0.00E+00	1.82E-13	MND
AP [kg SO₂ eq]	2.19E-02	6.66E-04	5.15E-04	0.00E+00	4.29E-02	0.00E+00	9.38E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.16E-05	0.00E+00	3.14E-04	MND
EP [kg Phosphate eq]	1.03E-03	1.76E-04	5.06E-05	0.00E+00	6.72E-03	0.00E+00	7.39E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-05	0.00E+00	5.68E-04	MND
POCP [kg Ethene eq]	1.72E-03	-2.46E-04	3.87E-05	0.00E+00	4.22E-03	0.00E+00	6.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-2.83E-05	0.00E+00	2.46E-05	MND
ADPE [kg Sb eq]	1.26E-05	2.75E-08	3.39E-07	0.00E+00	5.41E-06	0.00E+00	5.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.41E-09	0.00E+00	2.07E-08	MND
ADPF [MJ]	1.17E+02	2.58E+00	2.89E+00	0.00E+00	4.48E+02	0.00E+00	4.96E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.08E-01	0.00E+00	9.47E-01	MND
TRACI LCIA Impacts (No	rth America	a)													
AP [kg SO₂ eq]	2.02E-02	9.14E-04	5.01E-04	0.00E+00	4.52E-02	0.00E+00	8.80E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04	0.00E+00	3.34E-04	MND
EP [kg N eq]	7.43E-04	8.12E-05	3.55E-05	0.00E+00	1.03E-02	0.00E+00	5.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05	0.00E+00	4.48E-04	MND
GWP [kg CO₂ eq]	5.66E+00	1.95E-01	1.53E-01	0.00E+00	3.53E+01	0.00E+00	2.44E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-02	0.00E+00	6.30E-02	MND
ODP [kg CFC 11 eq]	1.22E-08	5.81E-16	2.45E-10	0.00E+00	4.25E-12	0.00E+00	5.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-16	0.00E+00	3.08E-15	MND
Resources [MJ]	1.44E+01	3.70E-01	3.59E-01	0.00E+00	4.37E+01	0.00E+00	6.14E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.29E-02	0.00E+00	1.27E-01	MND
POCP [kg O₃ eq]	1.36E-01	2.10E-02	4.14E-03	0.00E+00	6.78E-01	0.00E+00	6.79E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-03	0.00E+00	5.97E-03	MND
Carbon Emissions and U	ptake														
BCRP [kg CO₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
BCEP [kg CO₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
BCRK [kg CO₂]	1.06E-01	0.00E+00	2.11E-03	0.00E+00	0.00E+00	0.00E+00	4.31E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
BCEK [kg CO₂]	0.00E+00	0.00E+00	1.08E-01	0.00E+00	0.00E+00	0.00E+00	4.23E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
BCEW [kg CO₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
CCE [kg CO₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
CCR [kg CO₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
CWNR [kg CO₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND



Table 19: Resource use, waste, and output flow results per one square meter of installed Advance™ Modular Carpet Tile - Encore® 100 Nylon Results (19 oz face weight).

Impact Category	A1-A3	A4	A5	В1	B2	В3	В4	В5	В6	В7	C1	C2	C3	C4	D
Resource Use Indicators	i														
RPR <sub>E</sub> [MJ]	1.20E+01	1.15E-01	2.74E-01	0.00E+00	1.60E+02	0.00E+00	5.01E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-02	0.00E+00	1.21E-01	MND
RPR <sub>M</sub> [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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
RPR <sub>T</sub> [MJ]	1.20E+01	1.15E-01	2.74E-01	0.00E+00	1.60E+02	0.00E+00	5.01E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-02	0.00E+00	1.21E-01	MND
NRPR <sub>E</sub> [MJ]	1.25E+02	2.60E+00	3.08E+00	0.00E+00	6.17E+02	0.00E+00	5.29E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.13E-01	0.00E+00	9.76E-01	MND
NRPR <sub>M</sub> [MJ]	8.98E+00	0.00E+00	1.80E-01	0.00E+00	0.00E+00	0.00E+00	3.66E+01	0.00E+00	MND						
NRPR <sub>T</sub> [MJ]	1.34E+02	2.60E+00	3.26E+00	0.00E+00	6.17E+02	0.00E+00	5.65E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.13E-01	0.00E+00	9.76E-01	MND
SM [kg]	3.82E-02	0.00E+00	7.64E-04	0.00E+00	0.00E+00	0.00E+00	1.56E-01	0.00E+00	MND						
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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
FW [m³]	2.10E-02	3.83E-04	5.77E-04	0.00E+00	2.56E-01	0.00E+00	8.86E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.54E-05	0.00E+00	1.26E-04	MND
Output Flows and Waste	Categorie	s													
HWD [kg]	1.83E-06	3.51E-10	3.67E-08	0.00E+00	3.25E-07	0.00E+00	7.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.91E-11	0.00E+00	2.41E-10	MND
NHWD [kg]	5.69E-01	2.59E-04	8.24E-02	0.00E+00	2.59E-01	0.00E+00	1.45E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.11E-05	0.00E+00	2.97E+00	MND
HLRW [kg]	6.80E-06	9.31E-09	1.49E-07	0.00E+00	7.21E-05	0.00E+00	2.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-09	0.00E+00	1.16E-08	MND
ILLRW [kg]	5.86E-03	7.84E-06	1.28E-04	0.00E+00	6.02E-02	0.00E+00	2.40E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-06	0.00E+00	1.04E-05	MND
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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
MR [kg]	0.00E+00	0.00E+00	1.01E-01	0.00E+00	0.00E+00	0.00E+00	4.03E-01	0.00E+00	MND						
MER [kg]	0.00E+00	0.00E+00	3.52E-03	0.00E+00	0.00E+00	0.00E+00	1.41E-02	0.00E+00	MND						
EEE [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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
EET [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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND



# EF Contract Advance™ Modular Carpet Tile – TeraPlex® SD PET (19oz face weight)

Table 20: LCIA results per one square meter of installed Advance™ Modular Carpet Tile - TeraPlex® SD PET Results (19 oz face weight).

Impact Category	A1-A3	A4	A5	В1	B2	В3	В4	В5	В6	В7	C1	C2	C3	C4	D
IPCC AR6															
GWPi [kg CO₂ eq]	9.16E+00	1.97E-01	2.34E-01	0.00E+00	3.60E+01	0.00E+00	3.88E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E-02	0.00E+00	6.40E-02	MND
GWPe [kg CO <sub>2</sub> eq]	9.23E+00	1.97E-01	2.27E-01	0.00E+00	3.60E+01	0.00E+00	3.90E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-02	0.00E+00	6.43E-02	MND
CML LCIA Impacts (Euro	pe, Rest of	World)													
GWP [kg CO₂ eq]	9.07E+00	1.96E-01	2.31E-01	0.00E+00	3.58E+01	0.00E+00	3.84E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-02	0.00E+00	6.35E-02	MND
ODP [kg CFC 11 eq]	1.13E-08	3.42E-14	2.25E-10	0.00E+00	2.52E-10	0.00E+00	4.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E-15	0.00E+00	1.82E-13	MND
AP [kg SO₂ eq]	2.46E-02	6.67E-04	5.68E-04	0.00E+00	4.29E-02	0.00E+00	1.05E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.16E-05	0.00E+00	3.14E-04	MND
EP [kg Phosphate eq]	1.48E-03	1.76E-04	5.97E-05	0.00E+00	6.72E-03	0.00E+00	9.23E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-05	0.00E+00	5.68E-04	MND
POCP [kg Ethene eq]	2.22E-03	-2.46E-04	4.87E-05	0.00E+00	4.22E-03	0.00E+00	8.08E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-2.83E-05	0.00E+00	2.46E-05	MND
ADPE [kg Sb eq]	1.34E-05	2.75E-08	3.54E-07	0.00E+00	5.41E-06	0.00E+00	5.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.41E-09	0.00E+00	2.07E-08	MND
ADPF [MJ]	1.86E+02	2.58E+00	4.26E+00	0.00E+00	4.48E+02	0.00E+00	7.76E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.08E-01	0.00E+00	9.47E-01	MND
TRACI LCIA Impacts (No	rth America	a)													
AP [kg SO₂ eq]	2.33E-02	9.14E-04	5.63E-04	0.00E+00	4.52E-02	0.00E+00	1.01E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04	0.00E+00	3.34E-04	MND
EP [kg N eq]	1.02E-03	8.12E-05	4.11E-05	0.00E+00	1.03E-02	0.00E+00	6.42E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05	0.00E+00	4.48E-04	MND
GWP [kg CO₂ eq]	8.99E+00	1.95E-01	2.20E-01	0.00E+00	3.53E+01	0.00E+00	3.80E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-02	0.00E+00	6.30E-02	MND
ODP [kg CFC 11 eq]	1.22E-08	5.81E-16	2.45E-10	0.00E+00	4.25E-12	0.00E+00	5.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-16	0.00E+00	3.08E-15	MND
Resources [MJ]	2.35E+01	3.70E-01	5.40E-01	0.00E+00	4.37E+01	0.00E+00	9.85E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.29E-02	0.00E+00	1.27E-01	MND
POCP [kg O₃ eq]	2.10E-01	2.10E-02	5.62E-03	0.00E+00	6.78E-01	0.00E+00	9.80E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-03	0.00E+00	5.97E-03	MND
Carbon Emissions and U	ptake														
BCRP [kg CO₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
BCEP [kg CO₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
BCRK [kg CO₂]	1.06E-01	0.00E+00	2.12E-03	0.00E+00	0.00E+00	0.00E+00	4.32E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
BCEK [kg CO₂]	0.00E+00	0.00E+00	1.08E-01	0.00E+00	0.00E+00	0.00E+00	4.23E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
BCEW [kg CO₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
CCE [kg CO₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
CCR [kg CO₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
CWNR [kg CO₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND



Table 21: Resource use, waste, and output flow results per one square meter of installed Advance™ Modular Carpet Tile - TeraPlex® SD PET Results (19 oz face weight).

Impact Category	A1-A3	A4	A5	В1	В2	В3	В4	В5	В6	В7	C1	C2	C3	C4	D
Resource Use Indicators	;														
RPR <sub>E</sub> [MJ]	1.54E+01	1.15E-01	3.42E-01	0.00E+00	1.60E+02	0.00E+00	6.41E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-02	0.00E+00	1.21E-01	MND
RPR <sub>M</sub> [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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
RPR <sub>T</sub> [MJ]	1.54E+01	1.15E-01	3.42E-01	0.00E+00	1.60E+02	0.00E+00	6.41E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-02	0.00E+00	1.21E-01	MND
NRPR <sub>E</sub> [MJ]	1.84E+02	2.60E+00	4.26E+00	0.00E+00	6.17E+02	0.00E+00	7.70E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.13E-01	0.00E+00	9.76E-01	MND
NRPR <sub>M</sub> [MJ]	2.66E+01	0.00E+00	5.31E-01	0.00E+00	0.00E+00	0.00E+00	1.08E+02	0.00E+00	MND						
NRPR <sub>T</sub> [MJ]	2.11E+02	2.60E+00	4.79E+00	0.00E+00	6.17E+02	0.00E+00	8.79E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.13E-01	0.00E+00	9.76E-01	MND
SM [kg]	3.83E-02	0.00E+00	7.65E-04	0.00E+00	0.00E+00	0.00E+00	1.56E-01	0.00E+00	MND						
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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
FW [m <sup>3</sup> ]	4.44E-02	3.83E-04	1.04E-03	0.00E+00	2.56E-01	0.00E+00	1.84E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.54E-05	0.00E+00	1.26E-04	MND
Output Flows and Waste	e Categorie	s													
HWD [kg]	1.72E-06	3.51E-10	3.45E-08	0.00E+00	3.25E-07	0.00E+00	7.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.91E-11	0.00E+00	2.41E-10	MND
NHWD [kg]	4.80E-01	2.60E-04	8.07E-02	0.00E+00	2.59E-01	0.00E+00	1.41E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.11E-05	0.00E+00	2.97E+00	MND
HLRW [kg]	1.04E-05	9.31E-09	2.22E-07	0.00E+00	7.21E-05	0.00E+00	4.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-09	0.00E+00	1.16E-08	MND
ILLRW [kg]	8.72E-03	7.84E-06	1.85E-04	0.00E+00	6.02E-02	0.00E+00	3.57E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-06	0.00E+00	1.04E-05	MND
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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
MR [kg]	0.00E+00	0.00E+00	1.01E-01	0.00E+00	0.00E+00	0.00E+00	4.04E-01	0.00E+00	MND						
MER [kg]	0.00E+00	0.00E+00	3.53E-03	0.00E+00	0.00E+00	0.00E+00	1.41E-02	0.00E+00	MND						
EEE [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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
EET [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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND



# EF Contract Advance™ Modular Tile - A1-A3 Global Warming Potential (GWP) by yarn weight

EF Contract produces the reference product with a variety of different yarn weights. Table 22 shows the embodied carbon values for the different variations of this product (e.g. the embodied carbon of the reference product with different face weights as produced by EF Contract). Embodied carbon in this EPD refers to A1-A3 (cradle-to-gate) TRACI 2.1 GWP impacts. This value reflects the GWP associated with upstream material extraction and processing, material transportation to EF Contract facilities, and the EF Contract production process. Embodied carbon in Table 22 is presented excluding biogenic carbon.

Table 22: A1-A3 GWP for additional product yarn weights in (oz/yd²) and (g/m²)

-	A1-A3 GWP (TRACI 2.1, G	lobal Warming Air, excl. bioge	
Yarn Weight	Encore SD® Ultima Nylon	Encore® 100 Nylon	TeraPlex® SD PET
12 oz. / 407 gr.	7.57	5.12	7.34
13 oz. / 441 gr.	7.82	5.19	7.57
14 oz. / 475 gr.	8.07	5.27	7.81
15 oz. / 509 gr.	8.32	5.35	8.04
16 oz. / 542 gr.	8.57	5.43	8.28
17 oz. / 575 gr.	8.83	5.51	8.51
18 oz. / 610 gr.	9.08	5.58	8.75
19 oz. / 644 gr.	9.33	5.66	8.98
20 oz. / 678 gr.	9.58	5.74	9.22
21 oz. / 712 gr.	9.83	5.82	9.45
22 oz. / 746 gr.	10.08	5.89	9.69
23 oz. / 780 gr.	10.34	5.97	9.92
24 oz. / 814 gr.	10.59	6.05	10.16
25 oz. / 848 gr.	10.84	6.13	10.40
26 oz. / 881 gr.	11.09	6.21	10.63
27 oz. / 915 gr.	11.34	6.28	10.86
28 oz. / 949 gr.	11.59	6.36	11.09
29 oz. / 983 gr.	11.83	6.44	11.33
30 oz. / 1017 gr.	12.08	6.52	11.56
31 oz. / 1051 gr.	12.33	6.59	11.79
32 oz. / 1085 gr.	12.58	6.67	12.02
33 oz. / 1119 gr.	12.83	6.75	12.25
34 oz. / 1153 gr.	13.07	6.83	12.48
35 oz. / 1187 gr.	13.32	6.90	12.72
36 oz. / 1220 gr.	13.57	6.98	12.95
37 oz. / 1254 gr.	13.82	7.06	13.18
38 oz. / 1288 gr.	14.07	7.14	13.41
39 oz. / 1322 gr.	14.31	7.21	13.64
40 oz. / 1356 gr.	14.56	7.29	13.88
41 oz. / 1390 gr.	14.81	7.37	14.11
42 oz. / 1424 gr.	15.06	7.45	14.34



#### Additional Environmental Information

## **Environment and Health During Manufacturing**

More information on EF CONTRACT's sustainability resources can be found on <u>EF Contract's sustainability</u> page.

Product specific certifications e.g. NSF-140 can be found on EF Contract's certifications page.

## **Environment and Health During Installation**

The product should be installed according to the manufacturer's instructions found at <a href="https://www.efcontractflooring.com/technical/installation-maintenance/">https://www.efcontractflooring.com/technical/installation-maintenance/</a>. All recommended personal protective equipment (PPE) should be utilized during installation, as indicated on the SDS and installation guidelines, found online.

#### **Extraordinary Effects**

#### **Fire**

Advance<sup>™</sup> Modular flooring achieves <450 for ASTM6 E662: Specific Optical Density of Smoke Generated by Solid Materials.

#### Water

Should the product become flooded, the floor covering should be removed, and the subfloor should be evaluated and repaired as needed. There are no environmental impacts associated with the product being flooded.

#### **Mechanical Destruction**

In the event that the product is mechanically destroyed, please revert to disposing the product using standard procedure and ensure timely replacement.

#### **Environmental Activities and Certifications**

EF Contract's carpets and adhesives emit minimal levels of volatile organic compounds (VOCs). Products included in this EPD are Green Label Plus and NSF 140 Gold certified and may contribute to LEED credits.

Additional information about the products can be found on EF Contract's <u>Technical Resources</u> page.



# **Abbreviations**

Table 23: Impact Category Key – LCIA Indicators

Abbreviation	Parameter	Unit
IPCC AR6		
GWPi	Global warming potential (100 years, includes biogenic CO <sub>2</sub> )	kg CO₂ eq
GWPe	Global warming potential (100 years, excludes biogenic CO <sub>2</sub> )	kg CO₂ eq
CML 2001-Jan	2016	
GWP	Global warming potential (100 years, includes biogenic CO <sub>2</sub> )	kg CO₂ eq
ODP	Depletion of stratospheric ozone layer	kg CFC 11 eq
AP	Acidification potential of soil and water	kg SO₂ eq
EP	Eutrophication potential	kg Phosphate eq
POCP	Photochemical ozone creation potential	kg Ethene eq
ADPE	Abiotic depletion potential for non-fossil resources	kg Sb eq
ADPF	Abiotic depletion potential for fossil resources	MJ, net calorific value
TRACI 2.1		
AP	Acidification potential of soil and water	kg SO₂ eq
EP	Eutrophication potential	kg N eq
GWP	Global warming potential (100 years, includes biogenic CO <sub>2</sub> )	kg CO₂ eq
ODP	Depletion of stratospheric ozone layer	kg CFC 11 eq
Resources	Depletion of non-renewable fossil fuels	MJ, surplus energy
SFP	Smog formation potential	kg O₃ eq

Table 24: Impact Category Key – Biogenic Carbon Indicators

Abbreviation	Parameter	Unit
BCRP	Biogenic Carbon Removal from Product	[kg CO <sub>2</sub> ]
BCEP	Biogenic Carbon Emission from Product	[kg CO <sub>2</sub> ]
BCRK	Biogenic Carbon Removal from Packaging	[kg CO <sub>2</sub> ]
BCEK	Biogenic Carbon Emission from Packaging	[kg CO <sub>2</sub> ]
BCEW	Biogenic Carbon Emission from Combustion of Waste from Renewable	
DCEW	Sources Used in Production Processes	[kg CO₂]
CCE	Calcination Carbon Emissions	[kg CO₂]
CCR	Carbonation Carbon Removals	[kg CO₂]
CWNR	Carbon Emissions from Combustion of Waste from Non- Renewable	[kg CO₂]
CWINK	Sources used in Production Processes	ing CO21

Table 25: Impact Category Key – Resource Use, Waste, and Output Flow Indicators

Abbreviation	Parameter	Unit
Resource Use	Parameters	
RPRE	Use of renewable primary energy excluding renewable primary energy resources used as raw materials	MJ, net calorific value (LHV)
RPRM	Use of renewable primary energy resources used as raw materials	MJ, net calorific value
RPRT	Total use of renewable primary energy resources	MJ, net calorific value
NRPRE	Use of non-renewable primary energy excluding non- renewable primary energy resources used as raw materials	MJ, net calorific value



Abbreviation	Parameter	Unit
NRPRM	Use of non-renewable primary energy resources used as raw materials	MJ, net calorific value
NRPRT	Total use of non-renewable primary energy resources	MJ, net calorific value
SM	Use of secondary materials	kg
RSF	Use of renewable secondary fuels	MJ, net calorific value
NRSF	Use of non-renewable secondary fuels	MJ, net calorific value
RE	Recovered energy	MJ, net calorific value
FW	Net use of fresh water	m3
Waste Parame	eters and Output Flows	
HWD	Disposed-of-hazardous waste	kg
NHWD	Disposed-of non-hazardous waste	kg
HLRW	High-level radioactive waste, conditioned, to final repository	kg
ILLRW	Intermediate- and low-level radioactive waste, conditioned, to final repository	kg
CRU	Components for reuse	kg
MR	Materials for recycling	kg
MER	Materials for energy recovery	kg
EEE	Exported electrical energy	MJ
EET	Exported thermal energy	MJ



# **Appendix**

To adhere to Sections 2.5.2 Part A: Life Cycle Assessment Calculation Rules and Report Requirements from UL Environment, additional results for face weights of 16, 26, and 36oz are provided in the following appendix. These additional results ensure all values in Table 22: A1-A3 GWP for additional product yarn weights in  $(oz/yd^2)$  and  $(g/m^2)$  differ by no more than +/- 10% from at least one of the full results tables in this EPD.



# EF Contract Advance™ Modular Carpet Tile - Encore® SD Ultima® Nylon Minimum Results (16oz face weight)

Table 26: LCIA results per one square meter of installed Advance™ Modular Carpet Tile - Encore® SD Ultima® Nylon Results (16 oz face weight).

Impact Category	A1-A3	A4	A5	В1	В2	В3	В4	B5	В6	В7	C1	C2	C3	C4	D
IPCC AR6															
GWPi [kg CO₂ eq]	8.74E+00	1.90E-01	2.25E-01	0.00E+00	3.60E+01	0.00E+00	3.70E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E-02	0.00E+00	6.18E-02	MND
GWPe [kg CO₂ eq]	8.81E+00	1.91E-01	2.18E-01	0.00E+00	3.60E+01	0.00E+00	3.73E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-02	0.00E+00	6.21E-02	MND
CML LCIA Impacts (Euro	pe, Rest of	World)													
GWP [kg CO₂ eq]	8.65E+00	1.89E-01	2.22E-01	0.00E+00	3.58E+01	0.00E+00	3.66E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-02	0.00E+00	6.13E-02	MND
ODP [kg CFC 11 eq]	1.13E-08	3.30E-14	2.26E-10	0.00E+00	2.52E-10	0.00E+00	4.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.50E-15	0.00E+00	1.76E-13	MND
AP [kg SO₂ eq]	2.69E-02	6.44E-04	6.14E-04	0.00E+00	4.29E-02	0.00E+00	1.14E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.88E-05	0.00E+00	3.03E-04	MND
EP [kg Phosphate eq]	1.63E-03	1.70E-04	6.21E-05	0.00E+00	6.72E-03	0.00E+00	9.72E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-05	0.00E+00	5.49E-04	MND
POCP [kg Ethene eq]	3.16E-03	-2.38E-04	6.78E-05	0.00E+00	4.22E-03	0.00E+00	1.20E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-2.74E-05	0.00E+00	2.37E-05	MND
ADPE [kg Sb eq]	1.36E-05	2.65E-08	3.59E-07	0.00E+00	5.41E-06	0.00E+00	5.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.22E-09	0.00E+00	2.00E-08	MND
ADPF [MJ]	1.78E+02	2.50E+00	4.09E+00	0.00E+00	4.48E+02	0.00E+00	7.42E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.91E-01	0.00E+00	9.14E-01	MND
TRACI LCIA Impacts (No	rth America	a)													
AP [kg SO₂ eq]	2.60E-02	8.83E-04	6.17E-04	0.00E+00	4.52E-02	0.00E+00	1.12E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04	0.00E+00	3.22E-04	MND
EP [kg N eq]	1.31E-03	7.85E-05	4.64E-05	0.00E+00	1.03E-02	0.00E+00	7.50E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-05	0.00E+00	4.33E-04	MND
GWP [kg CO₂ eq]	8.57E+00	1.89E-01	2.11E-01	0.00E+00	3.53E+01	0.00E+00	3.63E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-02	0.00E+00	6.08E-02	MND
ODP [kg CFC 11 eq]	1.23E-08	5.62E-16	2.46E-10	0.00E+00	4.25E-12	0.00E+00	5.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-16	0.00E+00	2.98E-15	MND
Resources [MJ]	2.32E+01	3.58E-01	5.34E-01	0.00E+00	4.37E+01	0.00E+00	9.72E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.04E-02	0.00E+00	1.22E-01	MND
POCP [kg O <sub>3</sub> eq]	2.09E-01	2.03E-02	5.58E-03	0.00E+00	6.78E-01	0.00E+00	9.72E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-03	0.00E+00	5.76E-03	MND
Carbon Emissions and U	ptake														
BCRP [kg CO₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
BCEP [kg CO₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
BCRK [kg CO₂]	1.06E-01	0.00E+00	2.11E-03	0.00E+00	0.00E+00	0.00E+00	4.31E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
BCEK [kg CO₂]	0.00E+00	0.00E+00	1.08E-01	0.00E+00	0.00E+00	0.00E+00	4.31E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
BCEW [kg CO₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
CCE [kg CO₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
CCR [kg CO₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
CWNR [kg CO₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND



Table 27: Resource use, waste, and output flow results per one square meter of installed Advance™ Modular Carpet Tile - Encore® SD Ultima® Nylon Results (16 oz face weight).

Impact Category	A1-A3	A4	A5	В1	B2	В3	B4	В5	В6	В7	C1	C2	C3	C4	D
Resource Use Indicators															
RPR <sub>E</sub> [MJ]	1.15E+01	1.11E-01	2.64E-01	0.00E+00	1.60E+02	0.00E+00	4.81E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-02	0.00E+00	1.17E-01	MND
RPR <sub>M</sub> [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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
RPR <sub>T</sub> [MJ]	1.15E+01	1.11E-01	2.64E-01	0.00E+00	1.60E+02	0.00E+00	4.81E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-02	0.00E+00	1.17E-01	MND
NRPR <sub>E</sub> [MJ]	1.68E+02	2.52E+00	3.94E+00	0.00E+00	6.17E+02	0.00E+00	7.04E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.95E-01	0.00E+00	9.43E-01	MND
NRPR <sub>M</sub> [MJ]	2.62E+01	0.00E+00	5.23E-01	0.00E+00	0.00E+00	0.00E+00	1.07E+02	0.00E+00	MND						
NRPR <sub>T</sub> [MJ]	1.94E+02	2.52E+00	4.46E+00	0.00E+00	6.17E+02	0.00E+00	8.11E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.95E-01	0.00E+00	9.43E-01	MND
SM [kg]	3.82E-02	0.00E+00	7.64E-04	0.00E+00	0.00E+00	0.00E+00	1.56E-01	0.00E+00	MND						
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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
FW [m³]	2.77E-02	3.70E-04	7.11E-04	0.00E+00	2.56E-01	0.00E+00	1.16E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.28E-05	0.00E+00	1.22E-04	MND
Output Flows and Waste	Categorie	s													
HWD [kg]	1.75E-06	3.39E-10	3.52E-08	0.00E+00	3.25E-07	0.00E+00	7.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.68E-11	0.00E+00	2.33E-10	MND
NHWD [kg]	4.92E-01	2.51E-04	7.89E-02	0.00E+00	2.59E-01	0.00E+00	1.37E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.94E-05	0.00E+00	2.87E+00	MND
HLRW [kg]	6.91E-06	8.99E-09	1.51E-07	0.00E+00	7.21E-05	0.00E+00	2.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-09	0.00E+00	1.12E-08	MND
ILLRW [kg]	5.81E-03	7.58E-06	1.27E-04	0.00E+00	6.02E-02	0.00E+00	2.38E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-06	0.00E+00	1.00E-05	MND
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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
MR [kg]	0.00E+00	0.00E+00	1.01E-01	0.00E+00	0.00E+00	0.00E+00	4.03E-01	0.00E+00	MND						
MER [kg]	0.00E+00	0.00E+00	3.52E-03	0.00E+00	0.00E+00	0.00E+00	1.41E-02	0.00E+00	MND						
EEE [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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
EET [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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND



# EF Contract Advance™Modular Carpet Tile - Encore® SD Ultima ®Nylon Middle Results (26oz face weight)

Table 28: LCIA results per one square meter of installed Advance™ Modular Carpet Tile - Encore® SD Ultima® Nylon Results (26 oz face weight).

Impact Category	A1-A3	A4	A5	B1	B2	В3	В4	B5	В6	В7	C1	C2	C3	C4	D
IPCC AR6															
GWPi [kg CO₂ eq]	1.13E+01	2.12E-01	2.77E-01	0.00E+00	3.60E+01	0.00E+00	4.77E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-02	0.00E+00	6.91E-02	MND
GWPe [kg CO₂ eq]	1.14E+01	2.12E-01	2.70E-01	0.00E+00	3.60E+01	0.00E+00	4.79E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-02	0.00E+00	6.94E-02	MND
CML LCIA Impacts (Euro	pe, Rest of	World)													
GWP [kg CO₂ eq]	1.12E+01	2.11E-01	2.74E-01	0.00E+00	3.58E+01	0.00E+00	4.72E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.16E-02	0.00E+00	6.86E-02	MND
ODP [kg CFC 11 eq]	1.12E-08	3.69E-14	2.24E-10	0.00E+00	2.52E-10	0.00E+00	4.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.27E-15	0.00E+00	1.97E-13	MND
AP [kg SO₂ eq]	3.02E-02	7.18E-04	6.83E-04	0.00E+00	4.29E-02	0.00E+00	1.28E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.81E-05	0.00E+00	3.39E-04	MND
EP [kg Phosphate eq]	2.09E-03	1.90E-04	7.31E-05	0.00E+00	6.72E-03	0.00E+00	1.20E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-05	0.00E+00	6.13E-04	MND
POCP [kg Ethene eq]	4.02E-03	-2.65E-04	8.43E-05	0.00E+00	4.22E-03	0.00E+00	1.53E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-3.06E-05	0.00E+00	2.65E-05	MND
ADPE [kg Sb eq]	1.42E-05	2.96E-08	3.70E-07	0.00E+00	5.41E-06	0.00E+00	5.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.84E-09	0.00E+00	2.24E-08	MND
ADPF [MJ]	2.21E+02	2.78E+00	4.98E+00	0.00E+00	4.48E+02	0.00E+00	9.22E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.49E-01	0.00E+00	1.02E+00	MND
TRACI LCIA Impacts (No	rth America	a)													
AP [kg SO₂ eq]	3.00E-02	9.85E-04	6.99E-04	0.00E+00	4.52E-02	0.00E+00	1.29E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04	0.00E+00	3.60E-04	MND
EP [kg N eq]	1.73E-03	8.76E-05	5.61E-05	0.00E+00	1.03E-02	0.00E+00	9.47E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05	0.00E+00	4.84E-04	MND
GWP [kg CO₂ eq]	1.11E+01	2.10E-01	2.62E-01	0.00E+00	3.53E+01	0.00E+00	4.67E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-02	0.00E+00	6.80E-02	MND
ODP [kg CFC 11 eq]	1.22E-08	6.26E-16	2.43E-10	0.00E+00	4.25E-12	0.00E+00	4.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-16	0.00E+00	3.33E-15	MND
Resources [MJ]	2.91E+01	3.99E-01	6.53E-01	0.00E+00	4.37E+01	0.00E+00	1.22E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.88E-02	0.00E+00	1.37E-01	MND
POCP [kg O₃ eq]	2.65E-01	2.27E-02	6.76E-03	0.00E+00	6.78E-01	0.00E+00	1.21E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-03	0.00E+00	6.44E-03	MND
Carbon Emissions and U	ptake														
BCRP [kg CO₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
BCEP [kg CO₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
BCRK [kg CO₂]	1.06E-01	0.00E+00	2.11E-03	0.00E+00	0.00E+00	0.00E+00	4.31E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
BCEK [kg CO₂]	0.00E+00	0.00E+00	1.08E-01	0.00E+00	0.00E+00	0.00E+00	4.23E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
BCEW [kg CO₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
CCE [kg CO₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
CCR [kg CO₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
CWNR [kg CO₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND



Table 29: Resource use, waste, and output flow results per one square meter of installed Advance™ Modular Carpet Tile - Encore® SD Ultima® Nylon Results (26 oz face weight).

Impact Category	A1-A3	A4	A5	B1	B2	В3	В4	B5	В6	В7	C1	C2	C3	C4	D
Resource Use Indicators															
RPR <sub>E</sub> [MJ]	1.45E+01	1.24E-01	3.25E-01	0.00E+00	1.60E+02	0.00E+00	6.05E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-02	0.00E+00	1.31E-01	MND
RPR <sub>M</sub> [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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
RPR <sub>T</sub> [MJ]	1.45E+01	1.24E-01	3.25E-01	0.00E+00	1.60E+02	0.00E+00	6.05E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-02	0.00E+00	1.31E-01	MND
NRPR <sub>E</sub> [MJ]	2.07E+02	2.81E+00	4.72E+00	0.00E+00	6.17E+02	0.00E+00	8.64E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.54E-01	0.00E+00	1.05E+00	MND
NRPR <sub>M</sub> [MJ]	3.54E+01	0.00E+00	7.09E-01	0.00E+00	0.00E+00	0.00E+00	1.45E+02	0.00E+00	MND						
NRPR <sub>T</sub> [MJ]	2.42E+02	2.81E+00	5.43E+00	0.00E+00	6.17E+02	0.00E+00	1.01E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.54E-01	0.00E+00	1.05E+00	MND
SM [kg]	3.82E-02	0.00E+00	7.64E-04	0.00E+00	0.00E+00	0.00E+00	1.56E-01	0.00E+00	MND						
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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
FW [m <sup>3</sup> ]	3.62E-02	4.13E-04	8.81E-04	0.00E+00	2.56E-01	0.00E+00	1.51E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.14E-05	0.00E+00	1.36E-04	MND
Output Flows and Waste	Categorie	s													
HWD [kg]	1.75E-06	3.78E-10	3.52E-08	0.00E+00	3.25E-07	0.00E+00	7.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.46E-11	0.00E+00	2.60E-10	MND
NHWD [kg]	5.75E-01	2.80E-04	8.73E-02	0.00E+00	2.59E-01	0.00E+00	1.55E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.52E-05	0.00E+00	3.20E+00	MND
HLRW [kg]	8.75E-06	1.00E-08	1.88E-07	0.00E+00	7.21E-05	0.00E+00	3.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-09	0.00E+00	1.25E-08	MND
ILLRW [kg]	7.36E-03	8.45E-06	1.58E-04	0.00E+00	6.02E-02	0.00E+00	3.02E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-06	0.00E+00	1.12E-05	MND
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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
MR [kg]	0.00E+00	0.00E+00	1.01E-01	0.00E+00	0.00E+00	0.00E+00	4.03E-01	0.00E+00	MND						
MER [kg]	0.00E+00	0.00E+00	3.52E-03	0.00E+00	0.00E+00	0.00E+00	1.41E-02	0.00E+00	MND						
EEE [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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
EET [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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND



# EF Contract Advance™ Modular Carpet Tile – Encore® SD Ultima® Nylon Maximum Results (36oz face weight)

Table 30: LCIA results per one square meter of installed Advance™ Modular Carpet Tile - Encore® SD Ultima® Nylon Results (36 oz face weight).

Impact Category	A1-A3	A4	A5	B1	B2	B3	В4	B5	В6	В7	C1	C2	C3	C4	D
IPCC AR6															
GWPi [kg CO₂ eq]	1.39E+01	2.34E-01	3.29E-01	0.00E+00	3.60E+01	0.00E+00	5.82E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.61E-02	0.00E+00	7.64E-02	MND
GWPe [kg CO₂ eq]	1.39E+01	2.34E-01	3.22E-01	0.00E+00	3.60E+01	0.00E+00	5.84E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.62E-02	0.00E+00	7.67E-02	MND
CML LCIA Impacts (Euro	pe, Rest of	World)													
GWP [kg CO₂ eq]	1.37E+01	2.33E-01	3.25E-01	0.00E+00	3.58E+01	0.00E+00	5.76E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.59E-02	0.00E+00	7.58E-02	MND
ODP [kg CFC 11 eq]	1.11E-08	4.07E-14	2.22E-10	0.00E+00	2.52E-10	0.00E+00	4.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.04E-15	0.00E+00	2.18E-13	MND
AP [kg SO₂ eq]	3.35E-02	7.93E-04	7.52E-04	0.00E+00	4.29E-02	0.00E+00	1.42E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.74E-05	0.00E+00	3.75E-04	MND
EP [kg Phosphate eq]	2.55E-03	2.09E-04	8.39E-05	0.00E+00	6.72E-03	0.00E+00	1.42E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-05	0.00E+00	6.78E-04	MND
POCP [kg Ethene eq]	4.86E-03	-2.93E-04	1.01E-04	0.00E+00	4.22E-03	0.00E+00	1.87E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-3.38E-05	0.00E+00	2.93E-05	MND
ADPE [kg Sb eq]	1.48E-05	3.27E-08	3.82E-07	0.00E+00	5.41E-06	0.00E+00	6.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.45E-09	0.00E+00	2.47E-08	MND
ADPF [MJ]	2.64E+02	3.07E+00	5.85E+00	0.00E+00	4.48E+02	0.00E+00	1.10E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.07E-01	0.00E+00	1.13E+00	MND
TRACI LCIA Impacts (No	rth America	a)													
AP [kg SO₂ eq]	3.39E-02	1.09E-03	7.81E-04	0.00E+00	4.52E-02	0.00E+00	1.45E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04	0.00E+00	3.98E-04	MND
EP [kg N eq]	2.14E-03	9.66E-05	6.56E-05	0.00E+00	1.03E-02	0.00E+00	1.14E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-05	0.00E+00	5.35E-04	MND
GWP [kg CO₂ eq]	1.36E+01	2.32E-01	3.13E-01	0.00E+00	3.53E+01	0.00E+00	5.69E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-02	0.00E+00	7.52E-02	MND
ODP [kg CFC 11 eq]	1.21E-08	6.91E-16	2.41E-10	0.00E+00	4.25E-12	0.00E+00	4.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-16	0.00E+00	3.68E-15	MND
Resources [MJ]	3.49E+01	4.41E-01	7.71E-01	0.00E+00	4.37E+01	0.00E+00	1.46E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.71E-02	0.00E+00	1.51E-01	MND
POCP [kg O₃ eq]	3.20E-01	2.50E-02	7.93E-03	0.00E+00	6.78E-01	0.00E+00	1.45E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-03	0.00E+00	7.12E-03	MND
Carbon Emissions and U	ptake														
BCRP [kg CO₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
BCEP [kg CO₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
BCRK [kg CO₂]	1.06E-01	0.00E+00	2.11E-03	0.00E+00	0.00E+00	0.00E+00	4.31E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
BCEK [kg CO₂]	0.00E+00	0.00E+00	1.08E-01	0.00E+00	0.00E+00	0.00E+00	4.23E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
BCEW [kg CO₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
CCE [kg CO₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
CCR [kg CO₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
CWNR [kg CO₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND



Table 31: Resource use, waste, and output flow results per one square meter of installed Advance™ Modular Carpet Tile - Encore® SD Ultima® Nylon Results (36 oz face weight).

Impact Category	A1-A3	A4	A5	В1	B2	В3	В4	B5	В6	В7	C1	C2	C3	C4	D
Resource Use Indicators															
RPR <sub>E</sub> [MJ]	1.75E+01	1.37E-01	3.84E-01	0.00E+00	1.60E+02	0.00E+00	7.26E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-02	0.00E+00	1.44E-01	MND
RPR <sub>M</sub> [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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
RPR <sub>T</sub> [MJ]	1.75E+01	1.37E-01	3.84E-01	0.00E+00	1.60E+02	0.00E+00	7.26E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-02	0.00E+00	1.44E-01	MND
NRPR <sub>E</sub> [MJ]	2.45E+02	3.10E+00	5.49E+00	0.00E+00	6.17E+02	0.00E+00	1.02E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.12E-01	0.00E+00	1.16E+00	MND
NRPR <sub>M</sub> [MJ]	4.46E+01	0.00E+00	8.92E-01	0.00E+00	0.00E+00	0.00E+00	1.82E+02	0.00E+00	MND						
NRPR <sub>T</sub> [MJ]	2.90E+02	3.10E+00	6.38E+00	0.00E+00	6.17E+02	0.00E+00	1.20E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.12E-01	0.00E+00	1.16E+00	MND
SM [kg]	3.82E-02	0.00E+00	7.64E-04	0.00E+00	0.00E+00	0.00E+00	1.56E-01	0.00E+00	MND						
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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
FW [m³]	4.45E-02	4.55E-04	1.05E-03	0.00E+00	2.56E-01	0.00E+00	1.85E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.00E-05	0.00E+00	1.50E-04	MND
Output Flows and Waste	Categorie	s													
HWD [kg]	1.76E-06	4.18E-10	3.53E-08	0.00E+00	3.25E-07	0.00E+00	7.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.25E-11	0.00E+00	2.88E-10	MND
NHWD [kg]	6.56E-01	3.09E-04	9.57E-02	0.00E+00	2.59E-01	0.00E+00	1.72E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.10E-05	0.00E+00	3.54E+00	MND
HLRW [kg]	1.06E-05	1.11E-08	2.24E-07	0.00E+00	7.21E-05	0.00E+00	4.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-09	0.00E+00	1.38E-08	MND
ILLRW [kg]	8.90E-03	9.33E-06	1.88E-04	0.00E+00	6.02E-02	0.00E+00	3.64E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-06	0.00E+00	1.24E-05	MND
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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
MR [kg]	0.00E+00	0.00E+00	1.01E-01	0.00E+00	0.00E+00	0.00E+00	4.03E-01	0.00E+00	MND						
MER [kg]	0.00E+00	0.00E+00	3.52E-03	0.00E+00	0.00E+00	0.00E+00	1.41E-02	0.00E+00	MND						
EEE [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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
EET [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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND



# EF Contract Advance™Modular Carpet Tile - Encore® 100 Nylon Minimum Results (16oz face weight)

Table 32: LCIA results per one square meter of installed Advance™ Modular Carpet Tile - Encore® 100 Nylon Results (16 oz face weight).

Impact Category	A1-A3	A4	A5	В1	B2	В3	В4	В5	В6	В7	C1	C2	C3	C4	D
IPCC AR6															
GWPi [kg CO₂ eq]	5.51E+00	1.90E-01	1.60E-01	0.00E+00	3.60E+01	0.00E+00	2.38E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E-02	0.00E+00	6.18E-02	MND
GWPe [kg CO₂ eq]	5.57E+00	1.91E-01	1.53E-01	0.00E+00	3.60E+01	0.00E+00	2.41E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-02	0.00E+00	6.21E-02	MND
CML LCIA Impacts (Euro	pe, Rest of	World)													
GWP [kg CO₂ eq]	5.45E+00	1.89E-01	1.58E-01	0.00E+00	3.58E+01	0.00E+00	2.36E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-02	0.00E+00	6.13E-02	MND
ODP [kg CFC 11 eq]	1.13E-08	3.30E-14	2.26E-10	0.00E+00	2.52E-10	0.00E+00	4.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.50E-15	0.00E+00	1.76E-13	MND
AP [kg SO₂ eq]	2.17E-02	6.44E-04	5.11E-04	0.00E+00	4.29E-02	0.00E+00	9.31E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.88E-05	0.00E+00	3.03E-04	MND
EP [kg Phosphate eq]	9.97E-04	1.70E-04	4.94E-05	0.00E+00	6.72E-03	0.00E+00	7.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-05	0.00E+00	5.49E-04	MND
POCP [kg Ethene eq]	1.70E-03	-2.38E-04	3.86E-05	0.00E+00	4.22E-03	0.00E+00	6.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-2.74E-05	0.00E+00	2.37E-05	MND
ADPE [kg Sb eq]	1.26E-05	2.65E-08	3.39E-07	0.00E+00	5.41E-06	0.00E+00	5.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.22E-09	0.00E+00	2.00E-08	MND
ADPF [MJ]	1.14E+02	2.50E+00	2.83E+00	0.00E+00	4.48E+02	0.00E+00	4.85E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.91E-01	0.00E+00	9.14E-01	MND
TRACI LCIA Impacts (No	rth America	a)													
AP [kg SO₂ eq]	2.00E-02	8.83E-04	4.96E-04	0.00E+00	4.52E-02	0.00E+00	8.71E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04	0.00E+00	3.22E-04	MND
EP [kg N eq]	7.14E-04	7.85E-05	3.46E-05	0.00E+00	1.03E-02	0.00E+00	5.09E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-05	0.00E+00	4.33E-04	MND
GWP [kg CO₂ eq]	5.43E+00	1.89E-01	1.48E-01	0.00E+00	3.53E+01	0.00E+00	2.34E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-02	0.00E+00	6.08E-02	MND
ODP [kg CFC 11 eq]	1.23E-08	5.62E-16	2.46E-10	0.00E+00	4.25E-12	0.00E+00	5.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-16	0.00E+00	2.98E-15	MND
Resources [MJ]	1.41E+01	3.58E-01	3.53E-01	0.00E+00	4.37E+01	0.00E+00	6.02E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.04E-02	0.00E+00	1.22E-01	MND
POCP [kg O₃ eq]	1.32E-01	2.03E-02	4.04E-03	0.00E+00	6.78E-01	0.00E+00	6.59E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-03	0.00E+00	5.76E-03	MND
Carbon Emissions and U	ptake														
BCRP [kg CO₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
BCEP [kg CO₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
BCRK [kg CO₂]	1.06E-01	0.00E+00	2.11E-03	0.00E+00	0.00E+00	0.00E+00	4.31E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
BCEK [kg CO₂]	0.00E+00	0.00E+00	1.08E-01	0.00E+00	0.00E+00	0.00E+00	4.23E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
BCEW [kg CO₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
CCE [kg CO₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
CCR [kg CO₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
CWNR [kg CO₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND



Table 33: Resource use, waste, and output flow results per one square meter of installed Advance™ Modular Carpet Tile - Encore® 100 Nylon Results (16 oz face weight).

Impact Category	A1-A3	A4	A5	В1	B2	В3	B4	В5	В6	В7	C1	C2	C3	C4	D
Resource Use Indicators															
RPR <sub>E</sub> [MJ]	1.11E+01	1.11E-01	2.57E-01	0.00E+00	1.60E+02	0.00E+00	4.66E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-02	0.00E+00	1.17E-01	MND
RPR <sub>M</sub> [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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
RPR <sub>T</sub> [MJ]	1.11E+01	1.11E-01	2.57E-01	0.00E+00	1.60E+02	0.00E+00	4.66E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-02	0.00E+00	1.17E-01	MND
NRPR <sub>E</sub> [MJ]	1.21E+02	2.52E+00	3.00E+00	0.00E+00	6.17E+02	0.00E+00	5.13E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.95E-01	0.00E+00	9.43E-01	MND
NRPR <sub>M</sub> [MJ]	9.05E+00	0.00E+00	1.81E-01	0.00E+00	0.00E+00	0.00E+00	3.69E+01	0.00E+00	MND						
NRPR <sub>T</sub> [MJ]	1.30E+02	2.52E+00	3.18E+00	0.00E+00	6.17E+02	0.00E+00	5.50E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.95E-01	0.00E+00	9.43E-01	MND
SM [kg]	3.82E-02	0.00E+00	7.64E-04	0.00E+00	0.00E+00	0.00E+00	1.56E-01	0.00E+00	MND						
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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
FW [m³]	1.98E-02	3.70E-04	5.52E-04	0.00E+00	2.56E-01	0.00E+00	8.35E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.28E-05	0.00E+00	1.22E-04	MND
Output Flows and Waste	Categorie	s													
HWD [kg]	1.82E-06	3.39E-10	3.65E-08	0.00E+00	3.25E-07	0.00E+00	7.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.68E-11	0.00E+00	2.33E-10	MND
NHWD [kg]	5.37E-01	2.51E-04	7.98E-02	0.00E+00	2.59E-01	0.00E+00	1.39E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.94E-05	0.00E+00	2.87E+00	MND
HLRW [kg]	6.34E-06	8.99E-09	1.39E-07	0.00E+00	7.21E-05	0.00E+00	2.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-09	0.00E+00	1.12E-08	MND
ILLRW [kg]	5.45E-03	7.58E-06	1.19E-04	0.00E+00	6.02E-02	0.00E+00	2.23E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-06	0.00E+00	1.00E-05	MND
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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
MR [kg]	0.00E+00	0.00E+00	1.01E-01	0.00E+00	0.00E+00	0.00E+00	4.03E-01	0.00E+00	MND						
MER [kg]	0.00E+00	0.00E+00	3.52E-03	0.00E+00	0.00E+00	0.00E+00	1.41E-02	0.00E+00	MND						
EEE [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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
EET [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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND



# EF Contract Advance™Modular Carpet Tile - Encore® 100 Nylon Middle Results (26oz face weight)

Table 34: LCIA results per one square meter of installed Advance™ Modular Carpet Tile - Encore® 100 Nylon Results (26 oz face weight).

Impact Category	A1-A3	A4	A5	В1	B2	В3	В4	В5	В6	В7	C1	C2	C3	C4	D
IPCC AR6															
GWPi [kg CO₂ eq]	6.30E+00	2.12E-01	1.77E-01	0.00E+00	3.60E+01	0.00E+00	2.72E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-02	0.00E+00	6.91E-02	MND
GWPe [kg CO₂ eq]	6.37E+00	2.12E-01	1.70E-01	0.00E+00	3.60E+01	0.00E+00	2.74E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-02	0.00E+00	6.94E-02	MND
CML LCIA Impacts (Euro	pe, Rest of	World)													
GWP [kg CO₂ eq]	6.24E+00	2.11E-01	1.75E-01	0.00E+00	3.58E+01	0.00E+00	2.69E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.16E-02	0.00E+00	6.86E-02	MND
ODP [kg CFC 11 eq]	1.12E-08	3.69E-14	2.24E-10	0.00E+00	2.52E-10	0.00E+00	4.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.27E-15	0.00E+00	1.97E-13	MND
AP [kg SO₂ eq]	2.22E-02	7.18E-04	5.24E-04	0.00E+00	4.29E-02	0.00E+00	9.56E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.81E-05	0.00E+00	3.39E-04	MND
EP [kg Phosphate eq]	1.11E-03	1.90E-04	5.35E-05	0.00E+00	6.72E-03	0.00E+00	7.96E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-05	0.00E+00	6.13E-04	MND
POCP [kg Ethene eq]	1.75E-03	-2.65E-04	3.90E-05	0.00E+00	4.22E-03	0.00E+00	6.09E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-3.06E-05	0.00E+00	2.65E-05	MND
ADPE [kg Sb eq]	1.26E-05	2.96E-08	3.39E-07	0.00E+00	5.41E-06	0.00E+00	5.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.84E-09	0.00E+00	2.24E-08	MND
ADPF [MJ]	1.23E+02	2.78E+00	3.02E+00	0.00E+00	4.48E+02	0.00E+00	5.22E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.49E-01	0.00E+00	1.02E+00	MND
TRACI LCIA Impacts (No	rth America	a)													
AP [kg SO₂ eq]	2.06E-02	9.85E-04	5.12E-04	0.00E+00	4.52E-02	0.00E+00	9.02E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04	0.00E+00	3.60E-04	MND
EP [kg N eq]	8.09E-04	8.76E-05	3.77E-05	0.00E+00	1.03E-02	0.00E+00	5.72E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05	0.00E+00	4.84E-04	MND
GWP [kg CO₂ eq]	6.21E+00	2.10E-01	1.65E-01	0.00E+00	3.53E+01	0.00E+00	2.68E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-02	0.00E+00	6.80E-02	MND
ODP [kg CFC 11 eq]	1.22E-08	6.26E-16	2.43E-10	0.00E+00	4.25E-12	0.00E+00	4.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-16	0.00E+00	3.33E-15	MND
Resources [MJ]	1.50E+01	3.99E-01	3.72E-01	0.00E+00	4.37E+01	0.00E+00	6.41E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.88E-02	0.00E+00	1.37E-01	MND
POCP [kg O₃ eq]	1.45E-01	2.27E-02	4.38E-03	0.00E+00	6.78E-01	0.00E+00	7.27E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-03	0.00E+00	6.44E-03	MND
Carbon Emissions and U	ptake														
BCRP [kg CO₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
BCEP [kg CO₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
BCRK [kg CO₂]	1.06E-01	0.00E+00	2.11E-03	0.00E+00	0.00E+00	0.00E+00	4.31E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
BCEK [kg CO₂]	0.00E+00	0.00E+00	1.08E-01	0.00E+00	0.00E+00	0.00E+00	4.23E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
BCEW [kg CO₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
CCE [kg CO₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
CCR [kg CO₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
CWNR [kg CO₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND



Table 35: Resource use, waste, and output flow results per one square meter of installed Advance™ Modular Carpet Tile - Encore® 100 Nylon Results (26 oz face weight).

Impact Category	A1-A3	A4	A5	B1	B2	В3	В4	B5	В6	В7	C1	C2	C3	C4	D
Resource Use Indicators															
RPR <sub>E</sub> [MJ]	1.39E+01	1.24E-01	3.13E-01	0.00E+00	1.60E+02	0.00E+00	5.81E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-02	0.00E+00	1.31E-01	MND
RPR <sub>M</sub> [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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
RPR <sub>T</sub> [MJ]	1.39E+01	1.24E-01	3.13E-01	0.00E+00	1.60E+02	0.00E+00	5.81E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-02	0.00E+00	1.31E-01	MND
NRPR <sub>E</sub> [MJ]	1.34E+02	2.81E+00	3.26E+00	0.00E+00	6.17E+02	0.00E+00	5.66E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.54E-01	0.00E+00	1.05E+00	MND
NRPR <sub>M</sub> [MJ]	8.86E+00	0.00E+00	1.77E-01	0.00E+00	0.00E+00	0.00E+00	3.61E+01	0.00E+00	MND						
NRPR <sub>T</sub> [MJ]	1.43E+02	2.81E+00	3.44E+00	0.00E+00	6.17E+02	0.00E+00	6.02E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.54E-01	0.00E+00	1.05E+00	MND
SM [kg]	3.82E-02	0.00E+00	7.64E-04	0.00E+00	0.00E+00	0.00E+00	1.56E-01	0.00E+00	MND						
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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
FW [m <sup>3</sup> ]	2.38E-02	4.13E-04	6.34E-04	0.00E+00	2.56E-01	0.00E+00	1.00E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.14E-05	0.00E+00	1.36E-04	MND
Output Flows and Waste	Categorie	s													
HWD [kg]	1.86E-06	3.78E-10	3.73E-08	0.00E+00	3.25E-07	0.00E+00	7.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.46E-11	0.00E+00	2.60E-10	MND
NHWD [kg]	6.44E-01	2.80E-04	8.87E-02	0.00E+00	2.59E-01	0.00E+00	1.57E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.52E-05	0.00E+00	3.20E+00	MND
HLRW [kg]	7.87E-06	1.00E-08	1.70E-07	0.00E+00	7.21E-05	0.00E+00	3.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-09	0.00E+00	1.25E-08	MND
ILLRW [kg]	6.80E-03	8.45E-06	1.47E-04	0.00E+00	6.02E-02	0.00E+00	2.79E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-06	0.00E+00	1.12E-05	MND
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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
MR [kg]	0.00E+00	0.00E+00	1.01E-01	0.00E+00	0.00E+00	0.00E+00	4.03E-01	0.00E+00	MND						
MER [kg]	0.00E+00	0.00E+00	3.52E-03	0.00E+00	0.00E+00	0.00E+00	1.41E-02	0.00E+00	MND						
EEE [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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
EET [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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND



# EF Contract Advance™Modular Carpet Tile - Encore® 100 Nylon Maximum Results (36 oz face weight)

Table 36: LCIA results per one square meter of installed Advance™ Modular Carpet Tile - Encore® 100 Nylon Results (36 oz face weight).

Impact Category	A1-A3	A4	A5	B1	B2	B3	В4	B5	В6	В7	C1	C2	C3	C4	D
IPCC AR5															
GWPi [kg CO₂ eq]	7.09E+00	2.34E-01	1.93E-01	0.00E+00	3.60E+01	0.00E+00	3.05E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.61E-02	0.00E+00	7.64E-02	MND
GWPe [kg CO₂ eq]	7.15E+00	2.34E-01	1.86E-01	0.00E+00	3.60E+01	0.00E+00	3.08E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.62E-02	0.00E+00	7.67E-02	MND
CML LCIA Impacts (Euro	pe, Rest of	World)													
GWP [kg CO₂ eq]	7.02E+00	2.33E-01	1.91E-01	0.00E+00	3.58E+01	0.00E+00	3.03E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.59E-02	0.00E+00	7.58E-02	MND
ODP [kg CFC 11 eq]	1.11E-08	4.07E-14	2.22E-10	0.00E+00	2.52E-10	0.00E+00	4.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.04E-15	0.00E+00	2.18E-13	MND
AP [kg SO₂ eq]	2.28E-02	7.93E-04	5.37E-04	0.00E+00	4.29E-02	0.00E+00	9.83E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.74E-05	0.00E+00	3.75E-04	MND
EP [kg Phosphate eq]	1.22E-03	2.09E-04	5.75E-05	0.00E+00	6.72E-03	0.00E+00	8.78E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-05	0.00E+00	6.78E-04	MND
POCP [kg Ethene eq]	1.81E-03	-2.93E-04	3.95E-05	0.00E+00	4.22E-03	0.00E+00	6.19E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-3.38E-05	0.00E+00	2.93E-05	MND
ADPE [kg Sb eq]	1.27E-05	3.27E-08	3.40E-07	0.00E+00	5.41E-06	0.00E+00	5.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.45E-09	0.00E+00	2.47E-08	MND
ADPF [MJ]	1.32E+02	3.07E+00	3.20E+00	0.00E+00	4.48E+02	0.00E+00	5.60E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.07E-01	0.00E+00	1.13E+00	MND
TRACI LCIA Impacts (No	rth America	a)													
AP [kg SO₂ eq]	2.12E-02	1.09E-03	5.27E-04	0.00E+00	4.52E-02	0.00E+00	9.35E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04	0.00E+00	3.98E-04	MND
EP [kg N eq]	9.04E-04	9.66E-05	4.08E-05	0.00E+00	1.03E-02	0.00E+00	6.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-05	0.00E+00	5.35E-04	MND
GWP [kg CO₂ eq]	6.98E+00	2.32E-01	1.81E-01	0.00E+00	3.53E+01	0.00E+00	3.01E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-02	0.00E+00	7.52E-02	MND
ODP [kg CFC 11 eq]	1.21E-08	6.91E-16	2.41E-10	0.00E+00	4.25E-12	0.00E+00	4.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-16	0.00E+00	3.68E-15	MND
Resources [MJ]	1.60E+01	4.41E-01	3.92E-01	0.00E+00	4.37E+01	0.00E+00	6.82E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.71E-02	0.00E+00	1.51E-01	MND
POCP [kg O₃ eq]	1.59E-01	2.50E-02	4.71E-03	0.00E+00	6.78E-01	0.00E+00	7.95E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-03	0.00E+00	7.12E-03	MND
Carbon Emissions and U	ptake														
BCRP [kg CO₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
BCEP [kg CO₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
BCRK [kg CO₂]	1.06E-01	0.00E+00	2.11E-03	0.00E+00	0.00E+00	0.00E+00	4.31E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
BCEK [kg CO₂]	0.00E+00	0.00E+00	1.08E-01	0.00E+00	0.00E+00	0.00E+00	4.23E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
BCEW [kg CO₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
CCE [kg CO₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
CCR [kg CO₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
CWNR [kg CO₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND



Table 37: Resource use, waste, and output flow results per one square meter of installed Advance™ Modular Carpet Tile - Encore® 100 Nylon Results (36 oz face weight).

Impact Category	A1-A3	A4	A5	B1	B2	В3	В4	B5	В6	В7	C1	C2	C3	C4	D
Resource Use Indicators															
RPR <sub>E</sub> [MJ]	1.67E+01	1.37E-01	3.69E-01	0.00E+00	1.60E+02	0.00E+00	6.94E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-02	0.00E+00	1.44E-01	MND
RPR <sub>M</sub> [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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
RPR <sub>T</sub> [MJ]	1.67E+01	1.37E-01	3.69E-01	0.00E+00	1.60E+02	0.00E+00	6.94E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-02	0.00E+00	1.44E-01	MND
NRPR <sub>E</sub> [MJ]	1.47E+02	3.10E+00	3.52E+00	0.00E+00	6.17E+02	0.00E+00	6.20E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.12E-01	0.00E+00	1.16E+00	MND
NRPR <sub>M</sub> [MJ]	8.74E+00	0.00E+00	1.75E-01	0.00E+00	0.00E+00	0.00E+00	3.57E+01	0.00E+00	MND						
NRPR <sub>T</sub> [MJ]	1.55E+02	3.10E+00	3.70E+00	0.00E+00	6.17E+02	0.00E+00	6.56E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.12E-01	0.00E+00	1.16E+00	MND
SM [kg]	3.82E-02	0.00E+00	7.64E-04	0.00E+00	0.00E+00	0.00E+00	1.56E-01	0.00E+00	MND						
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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
FW [m <sup>3</sup> ]	2.79E-02	4.55E-04	7.17E-04	0.00E+00	2.56E-01	0.00E+00	1.17E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.00E-05	0.00E+00	1.50E-04	MND
Output Flows and Waste	Categorie	s													
HWD [kg]	1.90E-06	4.18E-10	3.81E-08	0.00E+00	3.25E-07	0.00E+00	7.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.25E-11	0.00E+00	2.88E-10	MND
NHWD [kg]	7.49E-01	3.09E-04	9.75E-02	0.00E+00	2.59E-01	0.00E+00	1.76E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.10E-05	0.00E+00	3.54E+00	MND
HLRW [kg]	9.36E-06	1.11E-08	2.00E-07	0.00E+00	7.21E-05	0.00E+00	3.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-09	0.00E+00	1.38E-08	MND
ILLRW [kg]	8.14E-03	9.33E-06	1.73E-04	0.00E+00	6.02E-02	0.00E+00	3.33E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-06	0.00E+00	1.24E-05	MND
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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
MR [kg]	0.00E+00	0.00E+00	1.01E-01	0.00E+00	0.00E+00	0.00E+00	4.03E-01	0.00E+00	MND						
MER [kg]	0.00E+00	0.00E+00	3.52E-03	0.00E+00	0.00E+00	0.00E+00	1.41E-02	0.00E+00	MND						
EEE [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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
EET [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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND



# EF Contract Advance™Modular Carpet Tile - TeraPlex® SD PET Minimum Results (16 oz face weight)

Table 38: LCIA results per one square meter of installed Advance™ Modular Carpet Tile - TeraPlex® SD PET Results (16 oz face weight).

Impact Category	A1-A3	A4	A5	B1	B2	В3	В4	B5	В6	В7	C1	C2	C3	C4	D
IPCC AR6															
GWPi [kg CO₂ eq]	8.44E+00	1.90E-01	2.19E-01	0.00E+00	3.60E+01	0.00E+00	3.58E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E-02	0.00E+00	6.18E-02	MND
GWPe [kg CO₂ eq]	8.50E+00	1.91E-01	2.12E-01	0.00E+00	3.60E+01	0.00E+00	3.60E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-02	0.00E+00	6.21E-02	MND
CML LCIA Impacts (Euro	pe, Rest of	World)													
GWP [kg CO₂ eq]	8.35E+00	1.89E-01	2.16E-01	0.00E+00	3.58E+01	0.00E+00	3.54E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-02	0.00E+00	6.13E-02	MND
ODP [kg CFC 11 eq]	1.13E-08	3.31E-14	2.26E-10	0.00E+00	2.52E-10	0.00E+00	4.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.50E-15	0.00E+00	1.76E-13	MND
AP [kg SO₂ eq]	2.40E-02	6.44E-04	5.57E-04	0.00E+00	4.29E-02	0.00E+00	1.02E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.88E-05	0.00E+00	3.03E-04	MND
EP [kg Phosphate eq]	1.38E-03	1.70E-04	5.72E-05	0.00E+00	6.72E-03	0.00E+00	8.72E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-05	0.00E+00	5.49E-04	MND
POCP [kg Ethene eq]	2.13E-03	-2.38E-04	4.72E-05	0.00E+00	4.22E-03	0.00E+00	7.76E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-2.74E-05	0.00E+00	2.37E-05	MND
ADPE [kg Sb eq]	1.33E-05	2.65E-08	3.51E-07	0.00E+00	5.41E-06	0.00E+00	5.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.22E-09	0.00E+00	2.00E-08	MND
ADPF [MJ]	1.73E+02	2.50E+00	4.01E+00	0.00E+00	4.48E+02	0.00E+00	7.25E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.91E-01	0.00E+00	9.14E-01	MND
TRACI LCIA Impacts (No	rth America	n)													
AP [kg SO₂ eq]	2.26E-02	8.83E-04	5.50E-04	0.00E+00	4.52E-02	0.00E+00	9.80E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04	0.00E+00	3.22E-04	MND
EP [kg N eq]	9.55E-04	7.85E-05	3.94E-05	0.00E+00	1.03E-02	0.00E+00	6.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-05	0.00E+00	4.33E-04	MND
GWP [kg CO₂ eq]	8.28E+00	1.89E-01	2.05E-01	0.00E+00	3.53E+01	0.00E+00	3.51E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-02	0.00E+00	6.08E-02	MND
ODP [kg CFC 11 eq]	1.23E-08	5.62E-16	2.46E-10	0.00E+00	4.25E-12	0.00E+00	5.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-16	0.00E+00	2.98E-15	MND
Resources [MJ]	2.19E+01	3.58E-01	5.09E-01	0.00E+00	4.37E+01	0.00E+00	9.20E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.04E-02	0.00E+00	1.22E-01	MND
POCP [kg O₃ eql	1.95E-01	2.03E-02	5.31E-03	0.00E+00	6.78E-01	0.00E+00	9.17E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-03	0.00E+00	5.76E-03	MND
Carbon Emissions and U	ptake														
BCRP [kg CO₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
BCEP [kg CO₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
BCRK [kg CO₂]	1.06E-01	0.00E+00	2.12E-03	0.00E+00	0.00E+00	0.00E+00	4.32E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
BCEK [kg CO₂]	0.00E+00	0.00E+00	1.08E-01	0.00E+00	0.00E+00	0.00E+00	4.23E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
BCEW [kg CO₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
CCE [kg CO₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
CCR [kg CO₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
CWNR [kg CO₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND



Table 39: Resource use, waste, and output flow results per one square meter of installed Advance™ Modular Carpet Tile - TeraPlex® SD PET Results (16 oz face weight).

Impact Category	A1-A3	A4	A5	В1	B2	В3	B4	В5	В6	В7	C1	C2	C3	C4	D
Resource Use Indicators															
RPR <sub>E</sub> [MJ]	1.41E+01	1.11E-01	3.16E-01	0.00E+00	1.60E+02	0.00E+00	5.86E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-02	0.00E+00	1.17E-01	MND
RPR <sub>M</sub> [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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
RPR <sub>T</sub> [MJ]	1.41E+01	1.11E-01	3.16E-01	0.00E+00	1.60E+02	0.00E+00	5.86E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-02	0.00E+00	1.17E-01	MND
NRPR <sub>E</sub> [MJ]	1.72E+02	2.52E+00	4.01E+00	0.00E+00	6.17E+02	0.00E+00	7.20E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.95E-01	0.00E+00	9.43E-01	MND
NRPR <sub>M</sub> [MJ]	2.41E+01	0.00E+00	4.82E-01	0.00E+00	0.00E+00	0.00E+00	9.84E+01	0.00E+00	MND						
NRPR <sub>T</sub> [MJ]	1.96E+02	2.52E+00	4.49E+00	0.00E+00	6.17E+02	0.00E+00	8.18E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.95E-01	0.00E+00	9.43E-01	MND
SM [kg]	3.83E-02	0.00E+00	7.65E-04	0.00E+00	0.00E+00	0.00E+00	1.56E-01	0.00E+00	MND						
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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
FW [m³]	3.98E-02	3.70E-04	9.52E-04	0.00E+00	2.56E-01	0.00E+00	1.65E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.28E-05	0.00E+00	1.22E-04	MND
Output Flows and Waste	Categorie	s													
HWD [kg]	1.73E-06	3.39E-10	3.46E-08	0.00E+00	3.25E-07	0.00E+00	7.04E-06	0.00E+00	MND						
NHWD [kg]	4.61E-01	2.51E-04	2.10E-02	0.00E+00	2.59E-01	0.00E+00	1.93E+00	0.00E+00	MND						
HLRW [kg]	9.47E-06	9.00E-09	2.02E-07	0.00E+00	7.21E-05	0.00E+00	3.87E-05	0.00E+00	MND						
ILLRW [kg]	7.90E-03	7.58E-06	1.68E-04	0.00E+00	6.02E-02	0.00E+00	3.23E-02	0.00E+00	MND						
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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
MR [kg]	0.00E+00	0.00E+00	1.01E-01	0.00E+00	0.00E+00	0.00E+00	4.04E-01	0.00E+00	MND						
MER [kg]	0.00E+00	0.00E+00	3.53E-03	0.00E+00	0.00E+00	0.00E+00	1.41E-02	0.00E+00	MND						
EEE [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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
EET [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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND



# EF Contract Advance™Modular Carpet Tile - TeraPlex® SD PET Middle Results (26oz face weight)

Table 40: LCIA results per one square meter of installed Advance™ Modular Carpet Tile - TeraPlex® SD PET Results (26 oz face weight).

Impact Category	A1-A3	A4	A5	В1	B2	В3	В4	B5	В6	В7	C1	C2	C3	C4	D
IPCC AR6															
GWPi [kg CO₂ eq]	1.08E+01	2.12E-01	2.65E-01	0.00E+00	3.60E+01	0.00E+00	4.53E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
GWPe [kg CO₂ eq]	1.09E+01	2.12E-01	2.59E-01	0.00E+00	3.60E+01	0.00E+00	4.55E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
CML LCIA Impacts (Euro	pe, Rest of	World)													
GWP [kg CO₂ eq]	1.07E+01	2.11E-01	2.65E-01	0.00E+00	3.58E+01	0.00E+00	4.53E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.16E-02	0.00E+00	6.86E-02	MND
ODP [kg CFC 11 eq]	1.12E-08	3.69E-14	2.24E-10	0.00E+00	2.52E-10	0.00E+00	4.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.27E-15	0.00E+00	1.97E-13	MND
AP [kg SO₂ eq]	2.58E-02	7.19E-04	5.95E-04	0.00E+00	4.29E-02	0.00E+00	1.10E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.81E-05	0.00E+00	3.39E-04	MND
EP [kg Phosphate eq]	1.71E-03	1.90E-04	6.55E-05	0.00E+00	6.72E-03	0.00E+00	1.04E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-05	0.00E+00	6.13E-04	MND
POCP [kg Ethene eq]	2.42E-03	-2.65E-04	5.24E-05	0.00E+00	4.22E-03	0.00E+00	8.81E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-3.06E-05	0.00E+00	2.65E-05	MND
ADPE [kg Sb eq]	1.36E-05	2.96E-08	3.59E-07	0.00E+00	5.41E-06	0.00E+00	5.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.84E-09	0.00E+00	2.24E-08	MND
ADPF [MJ]	2.15E+02	2.78E+00	4.84E+00	0.00E+00	4.48E+02	0.00E+00	8.95E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.49E-01	0.00E+00	1.02E+00	MND
TRACI LCIA Impacts (No	rth America	a)													
AP [kg SO₂ eq]	2.47E-02	9.85E-04	5.94E-04	0.00E+00	4.52E-02	0.00E+00	1.07E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04	0.00E+00	3.60E-04	MND
EP [kg N eq]	1.18E-03	8.76E-05	4.52E-05	0.00E+00	1.03E-02	0.00E+00	7.25E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05	0.00E+00	4.84E-04	MND
GWP [kg CO₂ eq]	1.06E+01	2.10E-01	2.53E-01	0.00E+00	3.53E+01	0.00E+00	4.48E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-02	0.00E+00	6.80E-02	MND
ODP [kg CFC 11 eq]	1.22E-08	6.26E-16	2.43E-10	0.00E+00	4.25E-12	0.00E+00	4.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-16	0.00E+00	3.33E-15	MND
Resources [MJ]	2.71E+01	3.99E-01	6.14E-01	0.00E+00	4.37E+01	0.00E+00	1.13E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.88E-02	0.00E+00	1.37E-01	MND
POCP [kg O₃ eq]	2.44E-01	2.27E-02	6.34E-03	0.00E+00	6.78E-01	0.00E+00	1.13E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-03	0.00E+00	6.44E-03	MND
Carbon Emissions and U	ptake														
BCRP [kg CO₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
BCEP [kg CO₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
BCRK [kg CO₂]	1.06E-01	0.00E+00	2.12E-03	0.00E+00	0.00E+00	0.00E+00	4.32E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
BCEK [kg CO₂]	0.00E+00	0.00E+00	1.08E-01	0.00E+00	0.00E+00	0.00E+00	4.23E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
BCEW [kg CO₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
CCE [kg CO₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
CCR [kg CO₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
CWNR [kg CO₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND



Table 41: Resource use, waste, and output flow results per one square meter of installed Advance™ Modular Carpet Tile - TeraPlex® SD PET Results (26 oz face weight).

Impact Category	A1-A3	A4	A5	В1	B2	В3	B4	В5	В6	В7	C1	C2	C3	C4	D
Resource Use Indicators															
RPR <sub>E</sub> [MJ]	1.85E+01	1.24E-01	4.04E-01	0.00E+00	1.60E+02	0.00E+00	7.67E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-02	0.00E+00	1.31E-01	MND
RPR <sub>M</sub> [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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
RPR <sub>T</sub> [MJ]	1.85E+01	1.24E-01	4.04E-01	0.00E+00	1.60E+02	0.00E+00	7.67E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-02	0.00E+00	1.31E-01	MND
NRPR <sub>E</sub> [MJ]	2.13E+02	2.81E+00	4.83E+00	0.00E+00	6.17E+02	0.00E+00	8.88E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.54E-01	0.00E+00	1.05E+00	MND
NRPR <sub>M</sub> [MJ]	3.23E+01	0.00E+00	6.45E-01	0.00E+00	0.00E+00	0.00E+00	1.32E+02	0.00E+00	MND						
NRPR <sub>T</sub> [MJ]	2.45E+02	2.81E+00	5.48E+00	0.00E+00	6.17E+02	0.00E+00	1.02E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.54E-01	0.00E+00	1.05E+00	MND
SM [kg]	3.83E-02	0.00E+00	7.65E-04	0.00E+00	0.00E+00	0.00E+00	1.56E-01	0.00E+00	MND						
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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
FW [m³]	5.49E-02	4.13E-04	1.26E-03	0.00E+00	2.56E-01	0.00E+00	2.27E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.14E-05	0.00E+00	1.36E-04	MND
Output Flows and Waste	Categorie	s													
HWD [kg]	1.71E-06	3.78E-10	3.44E-08	0.00E+00	3.25E-07	0.00E+00	7.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.46E-11	0.00E+00	2.60E-10	MND
NHWD [kg]	5.25E-01	2.80E-04	8.63E-02	0.00E+00	2.59E-01	0.00E+00	1.53E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.52E-05	0.00E+00	3.20E+00	MND
HLRW [kg]	1.27E-05	1.00E-08	2.67E-07	0.00E+00	7.21E-05	0.00E+00	5.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-09	0.00E+00	1.25E-08	MND
ILLRW [kg]	1.06E-02	8.45E-06	2.23E-04	0.00E+00	6.02E-02	0.00E+00	4.34E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-06	0.00E+00	1.12E-05	MND
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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
MR [kg]	0.00E+00	0.00E+00	1.01E-01	0.00E+00	0.00E+00	0.00E+00	4.04E-01	0.00E+00	MND						
MER [kg]	0.00E+00	0.00E+00	3.53E-03	0.00E+00	0.00E+00	0.00E+00	1.41E-02	0.00E+00	MND						
EEE [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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
EET [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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND



# EF Contract Advance™Modular Carpet Tile - TeraPlex® SD PET Maximum Results (36oz face weight)

Table 42: LCIA results per one square meter of installed Advance™ Modular Carpet Tile - TeraPlex® SD PET Results (36 oz face weight).

Impact Category	A1-A3	A4	A5	B1	B2	В3	B4	B5	В6	В7	C1	C2	C3	C4	D
IPCC AR5															
GWPi [kg CO₂ eq]	1.32E+01	2.34E-01	3.16E-01	0.00E+00	3.60E+01	0.00E+00	5.56E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.61E-02	0.00E+00	7.64E-02	MND
GWPe [kg CO <sub>2</sub> eq]	1.33E+01	2.34E-01	3.09E-01	0.00E+00	3.60E+01	0.00E+00	5.58E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.62E-02	0.00E+00	7.67E-02	MND
CML LCIA Impacts (Euro	pe, Rest of	World)													
GWP [kg CO₂ eq]	1.31E+01	2.33E-01	3.12E-01	0.00E+00	3.58E+01	0.00E+00	5.50E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.59E-02	0.00E+00	7.58E-02	MND
ODP [kg CFC 11 eq]	1.11E-08	4.07E-14	2.22E-10	0.00E+00	2.52E-10	0.00E+00	4.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.04E-15	0.00E+00	2.18E-13	MND
AP [kg SO₂ eq]	2.76E-02	7.93E-04	6.32E-04	0.00E+00	4.29E-02	0.00E+00	1.18E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.74E-05	0.00E+00	3.75E-04	MND
EP [kg Phosphate eq]	2.03E-03	2.09E-04	7.36E-05	0.00E+00	6.72E-03	0.00E+00	1.21E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-05	0.00E+00	6.78E-04	MND
POCP [kg Ethene eq]	2.71E-03	-2.93E-04	5.75E-05	0.00E+00	4.22E-03	0.00E+00	9.86E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-3.38E-05	0.00E+00	2.93E-05	MND
ADPE [kg Sb eq]	1.40E-05	3.27E-08	3.67E-07	0.00E+00	5.41E-06	0.00E+00	5.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.45E-09	0.00E+00	2.47E-08	MND
ADPF [MJ]	2.55E+02	3.07E+00	5.67E+00	0.00E+00	4.48E+02	0.00E+00	1.06E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.07E-01	0.00E+00	1.13E+00	MND
TRACI LCIA Impacts (No	rth America	a)													
AP [kg SO₂ eq]	2.68E-02	1.09E-03	6.39E-04	0.00E+00	4.52E-02	0.00E+00	1.16E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04	0.00E+00	3.98E-04	MND
EP [kg N eq]	1.41E-03	9.66E-05	5.09E-05	0.00E+00	1.03E-02	0.00E+00	8.41E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-05	0.00E+00	5.35E-04	MND
GWP [kg CO₂ eq]	1.29E+01	2.32E-01	3.00E-01	0.00E+00	3.53E+01	0.00E+00	5.44E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-02	0.00E+00	7.52E-02	MND
ODP [kg CFC 11 eq]	1.21E-08	6.91E-16	2.41E-10	0.00E+00	4.25E-12	0.00E+00	4.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-16	0.00E+00	3.68E-15	MND
Resources [MJ]	3.23E+01	4.41E-01	7.18E-01	0.00E+00	4.37E+01	0.00E+00	1.35E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.71E-02	0.00E+00	1.51E-01	MND
POCP [kg O <sub>3</sub> eq]	2.91E-01	2.50E-02	7.35E-03	0.00E+00	6.78E-01	0.00E+00	1.33E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-03	0.00E+00	7.12E-03	MND
Carbon Emissions and U	ptake														
BCRP [kg CO₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
BCEP [kg CO₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
BCRK [kg CO₂]	1.06E-01	0.00E+00	2.12E-03	0.00E+00	0.00E+00	0.00E+00	4.32E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
BCEK [kg CO₂]	0.00E+00	0.00E+00	1.08E-01	0.00E+00	0.00E+00	0.00E+00	4.23E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
BCEW [kg CO₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
CCE [kg CO₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
CCR [kg CO₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
CWNR [kg CO₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND



Table 43: Resource use, waste, and output flow results per one square meter of installed Advance™ Modular Carpet Tile - TeraPlex® SD PET Results (36 oz face weight).

Impact Category	A1-A3	A4	A5	В1	B2	В3	B4	В5	В6	В7	C1	C2	C3	C4	D
Resource Use Indicators															
RPR <sub>E</sub> [MJ]	2.28E+01	1.37E-01	4.92E-01	0.00E+00	1.60E+02	0.00E+00	9.45E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-02	0.00E+00	1.44E-01	MND
RPR <sub>M</sub> [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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
RPR <sub>T</sub> [MJ]	2.28E+01	1.37E-01	4.92E-01	0.00E+00	1.60E+02	0.00E+00	9.45E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-02	0.00E+00	1.44E-01	MND
NRPR <sub>E</sub> [MJ]	2.53E+02	3.10E+00	5.65E+00	0.00E+00	6.17E+02	0.00E+00	1.05E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.12E-01	0.00E+00	1.16E+00	MND
NRPR <sub>M</sub> [MJ]	4.03E+01	0.00E+00	8.06E-01	0.00E+00	0.00E+00	0.00E+00	1.64E+02	0.00E+00	MND						
NRPR <sub>T</sub> [MJ]	2.93E+02	3.10E+00	6.45E+00	0.00E+00	6.17E+02	0.00E+00	1.22E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.12E-01	0.00E+00	1.16E+00	MND
SM [kg]	3.83E-02	0.00E+00	7.65E-04	0.00E+00	0.00E+00	0.00E+00	1.56E-01	0.00E+00	MND						
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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
FW [m <sup>3</sup> ]	6.98E-02	4.55E-04	1.56E-03	0.00E+00	2.56E-01	0.00E+00	2.88E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.00E-05	0.00E+00	1.50E-04	MND
Output Flows and Waste	Categorie	s													
HWD [kg]	1.71E-06	4.18E-10	3.42E-08	0.00E+00	3.25E-07	0.00E+00	6.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.25E-11	0.00E+00	2.88E-10	MND
NHWD [kg]	5.89E-01	3.09E-04	9.43E-02	0.00E+00	2.59E-01	0.00E+00	1.69E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.10E-05	0.00E+00	3.54E+00	MND
HLRW [kg]	1.59E-05	1.11E-08	3.31E-07	0.00E+00	7.21E-05	0.00E+00	6.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-09	0.00E+00	1.38E-08	MND
ILLRW [kg]	1.33E-02	9.33E-06	2.76E-04	0.00E+00	6.02E-02	0.00E+00	5.43E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-06	0.00E+00	1.24E-05	MND
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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
MR [kg]	0.00E+00	0.00E+00	1.01E-01	0.00E+00	0.00E+00	0.00E+00	4.04E-01	0.00E+00	MND						
MER [kg]	0.00E+00	0.00E+00	3.53E-03	0.00E+00	0.00E+00	0.00E+00	1.41E-02	0.00E+00	MND						
EEE [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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
EET [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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND



## References

- CEN. (2013). EN 15804+A1: Sustainability of construction works Environmental product declarations Core rules for the product category of construction products. European Committee for Standardization.
- CML Department of Industrial Ecology. (2016, September 05). *CML-IA Characterisation Factors*. Retrieved from https://www.universiteitleiden.nl/en/research/research-output/science/cml-ia-characterisation-factors
- IPCC. (2013). Climate Change 2013: The Physical Science Basis. Contribution of Working Group I to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change. [Stocker, T.F., D. Qin, G.-K. Plattner, M. Tignor, S.K. Allen, J. Boschung, A. Nauels, Y. Xia, V. Bex and P.M. Midgley (eds.)]. Cambridge, United Kingdom and New York, NY, USA: Cambridge University Press.
- 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.
- RFCi. (2018). Industry-Wide EPD: Vinyl Tile. RFCi.
- UL Environment. (2018). Part B: Flooring EPD Requirements.
- UL Environment. (2022). Part A: Life Cycle Assessment Calculation Rules and Report Requirements, UL 10010, V4.0.
- 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

