



	The International EPD® System				
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	as provided by EPD North America				
General Program instructions and Version Number ¹	General Programme Instructions for the International EPD® System. Version 4.0. 2021-03-29				
achorae rogiam most aciscino ana vorsion riambor	Mannington Commercial				
Manufacturer Name and Address	75 Mannington Mills Road				
	Salem, NJ 08079				
Declaration Number	S-P-13871				
Declared Product and Functional Unit	Infinity® 2 MG Cushion Modular with Nylon 6				
Dectared Product and Functional Offic	1 m² of installed flooring and with a building service life of 75 years				
Reference PCR and Version Number ²	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	15 years				
Markets of Applicability	North America				
Date of Issue	07-15-2024				
Period of Validity	07-15-2029				
EPD Type	Product Specific				
Range of Dataset Variability	N/A				
EPD Scope	Cradle to Grave				
Year of reported manufacturer primary data	2022				
LCA Software and Version Number	LCA FE 10.7 (formerly GaBi)				
LCI Database and Version Number	MLC Database 2023.2 (formerly GaBi Database)				
	TRACI 2.1				
LCIA Methodology and Version Number	CML 2001-Jan 2016				
	IPCC AR5				
	Lindita Bushi, PhD, Chair				
Part A PCR review was conducted by:	Hugues Imbeault-Tétreault, Eng., M.A.Sc.				
	Jack Geibig Jack Geibig (Chair)				
The sub-category PCR review was conducted by:	Thomas Gloria, PhD				
The sub-category FCK review was conducted by.	Thaddeus Owen				
Independent third-party verification of the					
declaration and data, according to ISO 14025:2008.	☐ EPD Process Certification ☐ EPD Verification ☐ Pre-Verified Tool				
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)	Jamas Mallantina Thyi va FCC				
and ISO 21930:2017, serves as the core PCR, with	James Mellentine, Thrive ESG				
additional considerations from the USGBC/UL					
Environment Part A Enhancement (2017)					
□ Internal ☑ External					
This life cycle assessment was conducted in	I				
accordance with ISO 14044 and the reference PCR	WAP Sustainability Consulting				
by:	<u> </u>				
This life cycle assessment was independently verified in accordance with ISO 14044 and the	James Mellentine, Thrive ESG				
reference PCR by:	James Mederiume, Thirve Esa				
The procedure for follow-up of data during EPD					
validity, as defined by the GPI, involves third party	☐ Yes No				
verifier:					
Not all requirements in the GPI are fulfilled, particularly the requirement, for cons					

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.

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

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

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

The declarated environmental performance in the EPD shall not be compared with EN 15804-compliant EPDs developed under PCR 201914 in the International EPD System.

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.

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



Product Definition and Information

Company Description

Founded in 1915, Mannington continues to pursue its commitment to quality, customer satisfaction and the environment through innovative product design and marketing, state-of-the-art processes, and industry-leading programs. It manufactures and supplies a portfolio of flooring products including residential and commercial sheet vinyl, luxury vinyl, laminate, hardwood floors, carpet, and rubber.

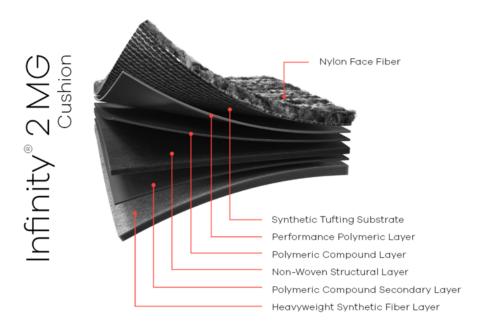


Figure 1: Product Construction

Product Description

Infinity® 2 MG Cushion Modular with Nylon 6, is a moisture-wicking modular cushion backing that provides comfort underfoot and noticeable sound absorption. It is CRI Green Label Plus certified and may contribute to LEED credits.

Application

Infinity® 2 MG Cushion Modular is intended for use in high traffic commercial interior spaces.





Figure 2: Product Application

Properties of Declared Product as Delivered

Each bundle contains a cardboard tray cap secured with polyethylene shrink wrap covering. The wrapped bundles are then stacked on to a wooden pallet and secured with polyethylene stretch wrap. Each pallet contains 160 m² (192 yd²) of product.

Name	Value	Unit
Yarn type	Nylon 6	-
Primary backing type	PET	-
Secondary backing type	PVC, Limestone	-
CRI rating	≥3.0 heavy	2.5 Moderate, 3.0 Heavy, 3.5 Severe
Total thickness	7.633 - 13.018	mm
Product weight	3733 - 4818	g/m²
Surface pile thickness	1.473 - 6.858	mm
Surface pile weight	475 - 1560	g/m²

Table 1: Technical Data

Flow Diagram

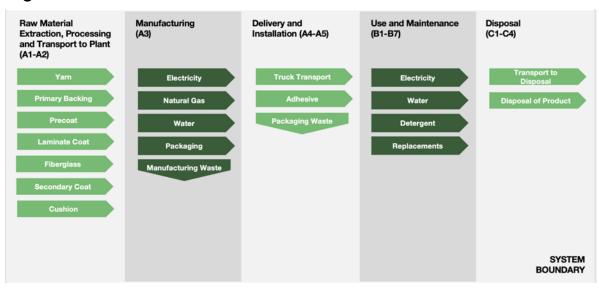


Figure 3: System Boundary



Manufacturing and Packaging

The manufacturing stage begins with the yarn (including scraper yarn) process. The yarn is processed by converting the raw yarns (singles) into a finished yarn that is sent to the tufting process. The processing of raw yarn usually requires electricity, gas and water. The tufting process involves using a tufting machine utilizing needles to insert the finished yarn into a synthetic tufting substrate (primary backing) to produce various aesthetically pleasing products which are generically referred to as greige carpet. The tufting process requires electricity. The coating process is the final manufacturing step. The coating process applies a polymeric performance pre-coat that bonds the finished yarn into the primary backing and applies two polymeric compound layers along with a reinforcement layer to complete the product. The product is cut, packaged and ready for shipment at the end of the coating process. The coating process requires electricity, gas and water.

Table 2: Product Composition

Layer	Material	Composition [%]*
Yarn	Nylon 6	16%
Primary Backing	PET	3%
Pre-coat	EVA, Mineral Filler	16%
Secondary Backing	PVC, Mineral Filler	44%
Cushion	PET	19%
Fiberglass	Fiberglass	2%

Table 3: Packaging

Material	Value [kg per m²]
Cardboard	6.19E-02
Paper	1.13E-03
Plastic	2.14E-02
Wood	9.52E-02

Transportation

Raw materials are sourced from the United States and Europe. It is assumed that all raw materials sourced from the United States are delivered to the manufacturing facility via truck, based on global region, while materials sourced from Europe travel on an ocean ship, followed by a shipping leg by truck. Distances were calculated using the supplier location and the location of manufacturing.

Product Installation

The recommended method for installing Infinity® 2 MG Cushion Modular with Nylon 6 is to use the full adhesive method. The instructions for this installation procedure can be found on the Mannington Commercial website.

The life cycle assessment modeled the installation stage with adhesive being applied at a rate of 0.224 kg/m2.

All waste generated during installation, including packaging waste, is disposed of according to the tables found in Section 2.8.5 of *Part A: Life Cycle Assessment Calculation Rules and Report Requirements* from UL Environment.

Use

The table below shows the parameters for the use phase scenario undergoing study while Table 9 shows the total material and energy inputs required in the study. These inputs were estimated based on Mannington Commercial carpet maintenance instructions. Carpet tile products are traditionally



not repaired or refurbished and are only replaced if the product fails or a new look is desired. Detailed maintenance instructions for soft surface flooring are provided on Mannington's website.

Table 4: Maintenance Procedure

Cleaning Process	Cleaning Frequency per year	Consumption of energy and resources
Vacuuming	250	Electricity
Deep cleaning	2	Hot water, neutral detergent

Reference Service Life and Estimated Building Service Life

The service life for Infinity® 2 MG Cushion Modular with Nylon 6 will vary depending on the amount of floor traffic, level of maintenance and the desired appearance of the floor covering. The reference service life for Infinity® 2 MG Cushion Modular with Nylon 6 is 15 years.

Reuse, Recycling and Energy Recovery

Infinity® 2 MG Cushion Modular with Nylon 6 can be easily disposed of, without any special handling requirements and without the threat of contamination.

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 Background Information

Declaration of Methodological Framework

The LCA follows an attributional approach.

Functional Unit

The functional unit of the flooring product is one (1) m² of floor covering. The mass per functional unit is 4.11 kg.

System Boundary

This EPD is a Cradle-to-Grave study.

Table 5: 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.
А3	Product Stage: Manufacturing	2022	Energy and water inputs required for manufacturing products from raw materials. Packaging materials and manufacturing waste are included as well.
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.
В3	Use Stage: Repair	2022	Product typically not repaired during use.
В4	Use Stage: Replacement	2022	Total materials and energy required to manufacture a replacement.
B5	Use Stage: Refurbishment	2022	Product typically not refurbished during use.
В6	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.
С3	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.



Period Under Review

The period under review is calendar year 2022.

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 were collected as annual totals for manufacturing utilities and production volume. For the LCA, the manufacturing utilities were divided by the production to find an energy use per square meter or per pound, depending on manufacturing stage and process. Another assumption is that the installation tools are used enough times that the per-square meter impacts are negligible.

Cut-Off Criteria

A cut-off rule of 1% has been applied to this assessment, meaning the included inventory data must account for greater than 99% of the total material and energy inputs into the system. Furthermore, greater than 99% of the environmental impacts from the product system must be accounted for in the assessment. At two manufacturing facilities, ancillary materials used during non-routine maintenance during the reported calendar year were excluded. Additionally, packaging waste of inbound raw materials to Mannington facilities and office waste were excluded. Cumulative excluded inputs within the life cycle account for less than 1% of the total mass inputs, energy inputs, and environmental impacts.

Data Sources

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

Data Quality

The geographical scope of the manufacturing portion of the life cycle 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 excellent. Primary data provided by the manufacturer are specific to the technology used in manufacturing their product. They are site-specific and considered of good quality. Data necessary to model cradle-to-gate unit processes were sourced from Sphera Managed LCA Content LCI datasets. Improved life cycle data from suppliers would improve technological coverage.

Allocation

General principles of allocation were based on ISO 14040/44. To derive a per-unit value for manufacturing utilities, allocation based on total production by area or mass was adopted, depending on facility production and process. 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.

Comparison of the environmental performance of construction works and construction products using EPD information shall be based on the product's use and impacts at the construction works level. In general, EPDs may not be used for comparability purposes when not considered in a construction works context. Given this PCR ensures products meet the same functional requirements, comparability is permissible provided the information given for such comparison is transparent and the limitations of comparability explained.

Table 6: Life Cycle Stages Included in the Study

Pr	oducti	on	Constr	uction				Use				End of Life			Benefits & Loads Beyond System Boundary	
A1	A2	А3	A4	A5	B1	B2	В3	B4	B5	В6	B7	C1	C2	C3	C4	D
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
X	Χ	Χ	X	Χ	Χ	Χ	Χ	Χ	Χ	Χ	X	X	X	X	Χ	MND

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



Life Cycle Assessment Scenarios

Table 7: Transportation to Building Site (A4)

	Shipping Details
Weight of Products Transported [kg]	4.05
Vehicle Type	Truck - Heavy Heavy-duty Diesel Truck / 53,333 lb
verlicte Type	payload - 8b
Fuel Efficiency [L/100km]	42
Fuel Type	Diesel
Distance [km]	800
Capacity Utilization [%]	68%
Capacity Utilization Volume Factor	1

Table 8: Reference Service Life

Name	Value
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
Indoor environment	Can be installed in any typical indoor environment, assuming manufacturer's installation instructions and recommendations are followed
Maintenance	See Use section above for maintenance instructions

Table 9: Installation at building site (A5)

	Value
Adhesive [kg] ¹	2.24E-01
Wood Packaging Waste to Landfill [kg]	9.56E-02
Wood Packaging Waste to Incineration [kg]	0.00E+00
Wood Packaging Waste to Recycling [kg]	0.00E+00
Paper Packaging Waste to Landfill [kg] ²	1.27E-02
Paper Packaging Waste to Incineration [kg] ²	3.17E-03
Paper Packaging Waste to Recycling [kg] ²	4.75E-02
Plastic Packaging Waste to Landfill [kg]	1.46E-02
Plastic Packaging Waste to Incineration [kg]	3.65E-03
Plastic Packaging Waste to Recycling [kg]	3.22E-03
Biogenic Carbon Emissions from Pa	ackaging Disposal
Cardboard [kg CO2 _e /m ²]	1.25E-01
Wood [kg CO2 _e /m ²]	1.50E-01
Paper [kg CO2 _e /m²]	1.78E-03

No freshwater, electricity, or fuels are used in installation.

¹Emissions from the adhesive during installation were considered for this assessment. However, no emissions were modeled due to the manufacturer-recommended adhesives having low- to no-VOC content.

²Cardboard and paper packaging is combined.



Table 10: 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 11: End-of-Life Scenario Details (C1-C4)

	Value
Collected as mixed construction waste [kg]	4.11
Waste to Landfill [kg]	4.11
Distance to Landfill [km]	161



Life Cycle Assessment Results

All results are given per functional unit, which is 1 m² of installed flooring over an estimated building life of 75 years. Environmental impacts were calculated using the Sphera LCA for Experts software platform. Impact results have been calculated using IPCC AR5, 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 Impact Category Key table gives definitions of relevant acronyms.

The LCIA impact categories referenced below are globally deemed mature enough to be included in Type III environmental declarations. Other categories are being developed and defined and LCA should continue making advances in their development. However, the EPD users shall not use additional measures for comparative purposes.

Table 12: Impact Category Key – LCIA Indicators

Abbreviation	Parameter	Unit
IPCC AR5		
GWPe	Global warming potential (100 years, excludes biogenic CO ₂)	kg CO₂ eq
GWPi	Global warming potential (100 years, includes biogenic CO ₂)	kg CO₂ eq
CML 2001-Jan	2016	
GWPe	Global warming potential (100 years, excludes biogenic CO ₂)	kg CO₂ eq
GWPi	Global warming potential (100 years, includes biogenic CO ₂)	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
GWPe	Global warming potential (100 years, excludes biogenic CO ₂)	kg CO₂ eq
GWPi	Global warming potential (100 years, includes biogenic CO ₂)	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 13: Impact Category Key - Biogenic Carbon Indicators

Abbreviation	Parameter Parameter	Unit
BCRP	Biogenic Carbon Removal from Product	[kg CO₂]
BCEP	Biogenic Carbon Emission from Product	[kg CO ₂]
BCRK	Biogenic Carbon Removal from Packaging	[kg CO₂]
BCEK	Biogenic Carbon Emission from Packaging	[kg CO ₂]



Abbreviation	Parameter	Unit
BCEW	Biogenic Carbon Emission from Combustion of Waste from Renewable Sources Used in Production Processes	[kg CO ₂]
CCE	Calcination Carbon Emissions	[kg CO ₂]
CCR	Carbonation Carbon Removals	[kg CO ₂]
CWNR	Carbon Emissions from Combustion of Waste from Non- Renewable Sources used in Production Processes	[kg CO₂]

Table 14: Impact Category Key – Resource Use, Waste, and Output Flow Indicators

Abbreviation	Parameter	Unit
Resource Use I	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
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	ters 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



Mannington Commercial Infinity® 2 MG Cushion Modular with Nylon 6 - 18 oz Results

Table 15: LCIA results for Infinity® 2 MG Cushion Modular with Nylon 6, per one square meter of installed flooring.

Impact Category	A1-A3	A4	A5	B1	B2	В3	B4	B5	В6	В7	C1	C2	C3	C4	D
IPCC AR5										-,			-3		
GWPe [kg CO₂ eq]	7.40E+00	2.62E-01	1.41E+00	0.00E+00	3.74E+01	0.00E+00	3.66E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-04	0.00E+00	8.88E-02	MND
GWPi [kg CO₂ eq]	7.02E+00	2.62E-01	1.44E+00	0.00E+00	3.74E+01	0.00E+00	3.53E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-04	0.00E+00	8.84E-02	MND
CML LCIA Impacts (Euro	pe, Rest of	World)													
GWPe [kg CO₂ eq]	7.29E+00	2.59E-01	1.34E+00	0.00E+00	3.66E+01	0.00E+00	3.59E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-04	0.00E+00	8.69E-02	MND
GWPi [kg CO₂ eq]	6.91E+00	2.59E-01	1.38E+00	0.00E+00	3.67E+01	0.00E+00	3.45E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-04	0.00E+00	8.66E-02	MND
ODP [kg CFC 11 eq]	7.77E-09	3.74E-14	1.57E-10	0.00E+00	2.07E-10	0.00E+00	3.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.75E-17	0.00E+00	2.37E-13	MND
AP [kg SO₂ eq]	8.97E-03	8.67E-04	1.54E-03	0.00E+00	4.92E-02	0.00E+00	4.72E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.74E-07	0.00E+00	4.30E-04	MND
EP [kg Phosphate eq]	1.26E-03	2.53E-04	5.44E-04	0.00E+00	7.24E-03	0.00E+00	1.19E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-07	0.00E+00	9.25E-04	MND
POCP [kg Ethene eq]	1.31E-03	-3.21E-	2.79E-04	0.00E+00	4.07E-03	0.00E+00	5.19E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-2.35E-	0.00E+00	3.24E-05	MND
ADPE [kg Sb eq]	1.44E-05	1.91E-08	3.64E-06	0.00E+00	3.99E-06	0.00E+00	7.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-11	0.00E+00	2.58E-08	MND
ADPF [MJ]	1.35E+02	3.62E+00	2.53E+01	0.00E+00	4.70E+02	0.00E+00	6.60E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.60E-03	0.00E+00	1.33E+00	MND
TRACI LCIA Impacts (No	rth America)													
AP [kg SO₂ eq]	9.74E-03	1.20E-03	2.13E-03	0.00E+00	5.21E-02	0.00E+00	5.41E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.19E-07	0.00E+00	4.56E-04	MND
EP [kg N eq]	1.85E-03	1.06E-04	3.36E-04	0.00E+00	1.08E-02	0.00E+00	1.21E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.61E-08	0.00E+00	7.31E-04	MND
GWPe [kg CO₂ eq]	7.22E+00	2.58E-01	1.32E+00	0.00E+00	3.64E+01	0.00E+00	3.55E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-04	0.00E+00	8.63E-02	MND
GWPi [kg CO₂ eq]	6.83E+00	2.58E-01	1.36E+00	0.00E+00	3.64E+01	0.00E+00	3.42E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-04	0.00E+00	8.59E-02	MND
ODP [kg CFC 11 eq]	8.43E-09	6.69E-16	1.69E-10	0.00E+00	3.72E-12	0.00E+00	3.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.50E-19	0.00E+00	4.23E-15	MND
Resources [MJ]	1.81E+01	4.83E-01	3.40E+00	0.00E+00	4.21E+01	0.00E+00	8.85E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.13E-04	0.00E+00	1.73E-01	MND
POCP [kg O₃ eq]	1.49E-01	2.77E-02	3.46E-02	0.00E+00	7.16E-01	0.00E+00	8.78E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-05	0.00E+00	8.32E-03	MND
Carbon Emissions and U	ptake						T	T	T				T		
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]	2.44E-01	0.00E+00	4.87E-03	0.00E+00	0.00E+00	0.00E+00	9.94E-01	0.00E+00	MND						
BCEK [kg CO₂]	0.00E+00	0.00E+00	2.48E-01	0.00E+00	0.00E+00	0.00E+00	9.94E-01	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 16: Resource use, waste, and output flow results for Infinity® 2 MG Cushion Modular with Nylon 6, per one square meter of installed flooring.

Impact Category	A1-A3	A4	A5	B1	B2	В3	В4	B5	В6	В7	C1	C2	C3	C4	D
Resource Use Indicator	s														
RPR _E [MJ]	2.58E+01	1.45E-01	1.54E+00	0.00E+00	1.46E+02	0.00E+00	1.11E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-04	0.00E+00	1.61E-01	MND
RPR _M [MJ]	1.03E+00	0.00E+00	2.05E-02	0.00E+00	0.00E+00	0.00E+00	4.19E+00	0.00E+00	MND						
RPR _T [MJ]	2.68E+01	1.45E-01	1.56E+00	0.00E+00	1.46E+02	0.00E+00	1.15E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-04	0.00E+00	1.61E-01	MND
NRPR _E [MJ]	1.41E+02	3.65E+00	2.65E+01	0.00E+00	6.39E+02	0.00E+00	6.89E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.63E-03	0.00E+00	1.38E+00	MND
NRPR _M [MJ]	1.69E+01	0.00E+00	3.37E-01	0.00E+00	0.00E+00	0.00E+00	6.88E+01	0.00E+00	MND						
NRPR _T [MJ]	1.58E+02	3.65E+00	2.68E+01	0.00E+00	6.39E+02	0.00E+00	7.57E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.63E-03	0.00E+00	1.38E+00	MND
SM [kg]	1.41E+00	0.00E+00	2.82E-02	0.00E+00	0.00E+00	0.00E+00	5.74E+00	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 ³]	5.30E-02	4.99E-04	7.07E-03	0.00E+00	2.59E-01	0.00E+00	2.43E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.33E-07	0.00E+00	1.71E-04	MND
Output Flows and Wast	e Categorie:	S													
HWD [kg]	7.01E-06	1.05E-11	1.41E-07	0.00E+00	-6.61E-	0.00E+00	2.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-14	0.00E+00	3.43E-11	MND
NHWD [kg]	5.67E-01	3.18E-04	1.93E-01	0.00E+00	2.63E-01	0.00E+00	1.94E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-07	0.00E+00	4.09E+00	MND
HLRW [kg]	8.22E-06	1.24E-08	6.38E-07	0.00E+00	7.17E-05	0.00E+00	3.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-11	0.00E+00	1.70E-08	MND
ILLRW [kg]	8.05E-03	1.05E-05	5.57E-04	0.00E+00	5.99E-02	0.00E+00	3.45E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-08	0.00E+00	1.52E-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]	9.83E-02	0.00E+00	1.54E-01	0.00E+00	0.00E+00	0.00E+00	1.01E+00	0.00E+00	MND						
MER [kg]	0.00E+00	0.00E+00	1.36E-02	0.00E+00	0.00E+00	0.00E+00	5.46E-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



Infinity® 2 MG Cushion Modular with Nylon 6 - A1-A3 TRACI 2.1 Results by yarn weight and type

Mannington Commercial produces the reference product with a variety of different yarn weights. Table 17 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 Mannington Commercial). Embodied carbon in this EPD refers to A1-A3 (cradle-to-gate) GWP impacts. This value reflects the GWP associated with upstream material extraction and processing, material transportation to Mannington Commercial facilities, and the Mannington Commercial production process. Four additional results are reported, calculated using the TRACI 2.1 methodology. These results are additionally shown in Table 17.

Table 17: A1-A3 TRACI 2.1 Results for additional product yarn weights in (oz/yd²) and (g/m²)

			A1-A3, TRACI 2.1		
Yarn Weight	Global Warming Air, excl. biogenic carbon [kg CO2 eq.]	Acidification [kg SO2 eq.]	Eutrophication [kg N eq.]	Resources, Fossil fuels [MJ surplus energy]	Smog Air [kg O3 eq.]
14 oz. / 475 gr.	7.02E+00	9.48E-03	1.80E-03	1.78E+01	1.43E-01
15 oz. / 509 gr.	7.07E+00	9.54E-03	1.82E-03	1.79E+01	1.44E-01
16 oz. / 542 gr.	7.12E+00	9.61E-03	1.83E-03	1.80E+01	1.46E-01
17 oz. / 576 gr.	7.17E+00	9.67E-03	1.84E-03	1.80E+01	1.47E-01
18 oz. / 610 gr.	7.22E+00	9.74E-03	1.85E-03	1.81E+01	1.49E-01
19 oz. / 644 gr.	7.27E+00	9.81E-03	1.86E-03	1.82E+01	1.51E-01
20 oz. / 678 gr.	7.32E+00	9.87E-03	1.87E-03	1.82E+01	1.52E-01
21 oz. / 712 gr.	7.37E+00	9.94E-03	1.88E-03	1.83E+01	1.54E-01
22 oz. / 746 gr.	7.42E+00	1.00E-02	1.90E-03	1.84E+01	1.55E-01
23 oz. / 780 gr.	7.47E+00	1.01E-02	1.91E-03	1.85E+01	1.57E-01
24 oz. / 814 gr.	7.52E+00	1.01E-02	1.92E-03	1.85E+01	1.59E-01
25 oz. / 848 gr.	7.57E+00	1.02E-02	1.93E-03	1.86E+01	1.60E-01
26 oz. / 882 gr.	7.62E+00	1.03E-02	1.94E-03	1.87E+01	1.62E-01
28 oz. / 949 gr.	7.72E+00	1.04E-02	1.96E-03	1.88E+01	1.65E-01
33 oz. / 1119 gr.	7.96E+00	1.07E-02	2.02E-03	1.92E+01	1.73E-01
34 oz. / 1153 gr.	8.01E+00	1.08E-02	2.03E-03	1.93E+01	1.75E-01
35 oz. / 1187 gr.	8.06E+00	1.09E-02	2.04E-03	1.94E+01	1.76E-01
36 oz. / 1221 gr.	8.11E+00	1.09E-02	2.05E-03	1.94E+01	1.78E-01
38 oz. / 1288 gr.	8.21E+00	1.11E-02	2.08E-03	1.96E+01	1.81E-01
39 oz. / 1322 gr.	8.26E+00	1.11E-02	2.09E-03	1.97E+01	1.83E-01
40 oz. / 1356 gr.	8.31E+00	1.12E-02	2.10E-03	1.97E+01	1.84E-01
46 oz. / 1560 gr.	8.61E+00	1.16E-02	2.17E-03	2.02E+01	1.94E-01



Life Cycle Assessment Interpretation

Within the Infinity® 2 MG Cushion Modular with Nylon 6 lifecycle, maintenance (B2) drives GWP impacts while replacements (B4) drive all other TRACI 2.1 impacts. Within B2, all maintenance inputs across the 75-year service life are included, explaining its dominance across the product's lifecycle. Similarly, we see replacements emerge as a dominant life cycle stage due to the 15-year service life of the product. The 15-year product service life means that four replacements of the carpet tile will occur over the estimated 75-year service life of a building. Each replacement includes A1-A5 and C1-C4 lifecycle stages, explaining its outsized impact.

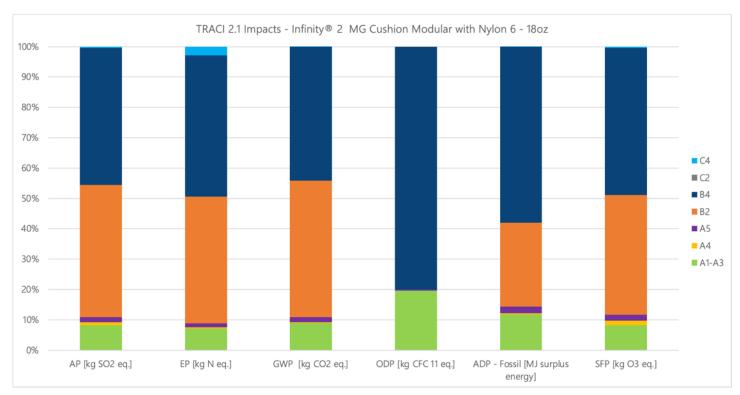


Figure 4: TRACI 2.1 Impacts for Infinity® 2 MG Cushion Modular with Nylon 6 – 18 oz



Additional Environmental Information

Environmental and Health During Manufacturing

Mannington's Infinity® 2 MG Cushion Modular with Nylon 6 is produced in a facility that is ISO 14001 certified.

Environment and Health During Installation

The product should be installed according to the manufacturer's instructions on Mannington's website.

This is a non-hazardous product. According to the product's SDS, due to solid, inert properties, scrap pieces from installation may simply be swept up and disposed of as solid, non-hazardous waste per local, state, and federal regulations.

Extraordinary Effects

Fire

Mannington's Infinity® 2 MG Cushion Modular with Nylon 6 received ≤ 450 on the ASTM E662 - NBS Smoke Test.

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

According to the product's SDS, this building product is relatively non-toxic, presenting no known hazard to people, except under thermal decomposition conditions which may yield hazardous by-products.

Environmental Activities and Certifications

Mannington's Infinity® 2 MG Cushion Modular with Nylon 6 is certified CRI Green Label Plus and NSF/ANSI 140 Gold. Additionally, Infinity® 2 MG Cushion Modular has a published <u>HPD</u>.

Additional information about the products can be found on Mannington's Technical Resources page.



Differences Versus Previous Versions

07-15-2024 Version 1.0 10-17-2025 Version 2.0

Technical change: GWP including biogenic carbon and Carbon Emissions and Uptake indicators, were added.



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 17 differ by no more than +/- 10% from at least one of the full results tables in this EPD.

Mannington Commercial Infinity® 2 MG Cushion Modular with Nylon 6 - 16 oz Results

Table 18: LCIA results for Infinity® 2 MG Cushion Modular with Nylon 6, per one square meter of installed flooring.

Impact Category	A1-A3	A4	A5	B1	B2	В3	B4	B5	В6	В7	C1	C2	C3	C4	D
IPCC AR5															
GWPe [kg CO₂ eq]	7.31E+00	2.58E-01	1.40E+00	0.00E+00	3.74E+01	0.00E+00	3.62E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-04	0.00E+00	8.73E-02	MND
GWPi [kg CO₂ eq]	6.92E+00	2.58E-01	1.44E+00	0.00E+00	3.74E+01	0.00E+00	3.48E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-04	0.00E+00	8.70E-02	MND
CML LCIA Impacts (Euro	pe, Rest of	World)													
GWPe [kg CO₂ eq]	7.19E+00	2.55E-01	1.34E+00	0.00E+00	3.66E+01	0.00E+00	3.55E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-04	0.00E+00	8.55E-02	MND
GWPi [kg CO₂ eq]	6.81E+00	2.55E-01	1.38E+00	0.00E+00	3.67E+01	0.00E+00	3.41E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-04	0.00E+00	8.52E-02	MND
ODP [kg CFC 11 eq]	7.78E-09	3.68E-14	1.57E-10	0.00E+00	2.07E-10	0.00E+00	3.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-17	0.00E+00	2.33E-13	MND
AP [kg SO₂ eq]	8.85E-03	8.52E-04	1.54E-03	0.00E+00	4.92E-02	0.00E+00	4.67E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.63E-07	0.00E+00	4.22E-04	MND
EP [kg Phosphate eq]	1.24E-03	2.49E-04	5.43E-04	0.00E+00	7.24E-03	0.00E+00	1.18E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-07	0.00E+00	9.09E-04	MND
POCP [kg Ethene eq]	1.27E-03	-3.16E-	2.78E-04	0.00E+00	4.07E-03	0.00E+00	5.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-2.31E-07	0.00E+00	3.18E-05	MND
ADPE [kg Sb eq]	1.44E-05	1.88E-08	3.64E-06	0.00E+00	3.99E-06	0.00E+00	7.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-11	0.00E+00	2.54E-08	MND
ADPF [MJ]	1.34E+02	3.56E+00	2.52E+01	0.00E+00	4.70E+02	0.00E+00	6.56E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-03	0.00E+00	1.31E+00	MND
TRACI LCIA Impacts (No	orth America)													
AP [kg SO₂ eq]	9.61E-03	1.18E-03	2.13E-03	0.00E+00	5.21E-02	0.00E+00	5.34E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.04E-07	0.00E+00	4.49E-04	MND
EP [kg N eq]	1.83E-03	1.04E-04	3.35E-04	0.00E+00	1.08E-02	0.00E+00	1.19E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.46E-08	0.00E+00	7.19E-04	MND
GWPe [kg CO₂ eq]	7.12E+00	2.54E-01	1.32E+00	0.00E+00	3.64E+01	0.00E+00	3.51E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-04	0.00E+00	8.48E-02	MND
GWPi [kg CO₂ eq]	6.74E+00	2.54E-01	1.36E+00	0.00E+00	3.64E+01	0.00E+00	3.37E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-04	0.00E+00	8.45E-02	MND
ODP [kg CFC 11 eq]	8.44E-09	6.58E-16	1.69E-10	0.00E+00	3.72E-12	0.00E+00	3.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.36E-19	0.00E+00	4.16E-15	MND
Resources [MJ]	1.80E+01	4.75E-01	3.40E+00	0.00E+00	4.21E+01	0.00E+00	8.80E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.03E-04	0.00E+00	1.70E-01	MND
POCP [kg O ₃ eq]	1.46E-01	2.72E-02	3.45E-02	0.00E+00	7.16E-01	0.00E+00	8.63E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-05	0.00E+00	8.18E-03	MND
Carbon Emissions and U	Jptake														
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]	2.44E-01	0.00E+00	4.87E-03	0.00E+00	0.00E+00	0.00E+00	9.94E-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	2.48E-01	0.00E+00	0.00E+00	0.00E+00	9.94E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND



Impact Category	A1-A3	A4	A5	B1	B2	В3	B4	B5	В6	В7	C1	C2	C3	C4	D
BCEW [kg CO₂]	0.00E+00	MND													
CCE [kg CO₂]	0.00E+00	MND													
CCR [kg CO₂]	0.00E+00	MND													
CWNR [kg CO₂]	0.00E+00	MND													

Table 19: Resource use, waste, and output flow results for Infinity® 2 MG Cushion Modular with Nylon 6, per one square meter of installed flooring.

Impact Category	A1-A3	A4	A5	В1	B2	В3	B4	B5	B6	В7	C1	C2	C3	C4	D
Resource Use Indicator	's														
RPR _E [MJ]	2.53E+01	1.43E-01	1.53E+00	0.00E+00	1.46E+02	0.00E+00	1.09E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-04	0.00E+00	1.59E-01	MND
RPR _M [MJ]	1.03E+00	0.00E+00	2.06E-02	0.00E+00	0.00E+00	0.00E+00	4.20E+00	0.00E+00	MND						
RPR _™ [MJ]	2.63E+01	1.43E-01	1.55E+00	0.00E+00	1.46E+02	0.00E+00	1.13E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-04	0.00E+00	1.59E-01	MND
NRPR _E [MJ]	1.39E+02	3.59E+00	2.64E+01	0.00E+00	6.39E+02	0.00E+00	6.81E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-03	0.00E+00	1.35E+00	MND
NRPR _M [MJ]	1.69E+01	0.00E+00	3.38E-01	0.00E+00	0.00E+00	0.00E+00	6.89E+01	0.00E+00	MND						
NRPR⊤ [MJ]	1.56E+02	3.59E+00	2.68E+01	0.00E+00	6.39E+02	0.00E+00	7.49E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-03	0.00E+00	1.35E+00	MND
SM [kg]	1.34E+00	0.00E+00	2.67E-02	0.00E+00	0.00E+00	0.00E+00	5.45E+00	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 ³]	5.29E-02	4.90E-04	7.06E-03	0.00E+00	2.59E-01	0.00E+00	2.43E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.23E-07	0.00E+00	1.68E-04	MND
Output Flows and Was	te Categorie	s													
HWD [kg]	7.02E-06	1.03E-11	1.41E-07	0.00E+00	-6.61E-09	0.00E+00	2.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-14	0.00E+00	3.38E-11	MND
NHWD [kg]	5.54E-01	3.12E-04	1.91E-01	0.00E+00	2.63E-01	0.00E+00	1.91E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-07	0.00E+00	4.03E+00	MND
HLRW [kg]	7.91E-06	1.22E-08	6.31E-07	0.00E+00	7.17E-05	0.00E+00	3.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-11	0.00E+00	1.67E-08	MND
ILLRW [kg]	7.76E-03	1.03E-05	5.52E-04	0.00E+00	5.99E-02	0.00E+00	3.34E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-08	0.00E+00	1.50E-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]	9.83E-02	0.00E+00	1.54E-01	0.00E+00	0.00E+00	0.00E+00	1.01E+00	0.00E+00	MND						
MER [kg]	0.00E+00	0.00E+00	1.36E-02	0.00E+00	0.00E+00	0.00E+00	5.46E-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



Mannington Commercial Infinity® 2 MG Cushion Modular with Nylon 6 - 26 oz Results

Table 20: LCIA results for Infinity® 2 MG Cushion Modular with Nylon 6, per one square meter of installed flooring.

Impact Category	A1-A3	A4	A5	В1	B2	В3	B4	B5	В6	В7	C1	C2	C3	C4	D
IPCC AR5															
GWPe [kg CO₂ eq]	7.80E+00	2.80E-01	1.41E+00	0.00E+00	3.74E+01	0.00E+00	3.83E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-04	0.00E+00	9.46E-02	MND
GWPi [kg CO₂ eq]	7.42E+00	2.80E-01	1.45E+00	0.00E+00	3.74E+01	0.00E+00	3.70E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-04	0.00E+00	9.43E-02	MND
CML LCIA Impacts (Euro	pe, Rest of \	World)													
GWPe [kg CO₂ eq]	7.67E+00	2.76E-01	1.35E+00	0.00E+00	3.66E+01	0.00E+00	3.76E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-04	0.00E+00	9.26E-02	MND
GWPi [kg CO₂ eq]	7.29E+00	2.77E-01	1.39E+00	0.00E+00	3.67E+01	0.00E+00	3.62E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-04	0.00E+00	9.23E-02	MND
ODP [kg CFC 11 eq]	7.74E-09	3.99E-14	1.56E-10	0.00E+00	2.07E-10	0.00E+00	3.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.06E-17	0.00E+00	2.52E-13	MND
AP [kg SO₂ eq]	9.43E-03	9.25E-04	1.55E-03	0.00E+00	4.92E-02	0.00E+00	4.95E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.19E-07	0.00E+00	4.58E-04	MND
EP [kg Phosphate eq]	1.35E-03	2.70E-04	5.47E-04	0.00E+00	7.24E-03	0.00E+00	1.26E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-07	0.00E+00	9.86E-04	MND
POCP [kg Ethene eq]	1.46E-03	-3.43E-	2.82E-04	0.00E+00	4.07E-03	0.00E+00	5.72E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-2.51E-	0.00E+00	3.45E-05	MND
ADPE [kg Sb eq]	1.44E-05	2.04E-08	3.64E-06	0.00E+00	3.99E-06	0.00E+00	7.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-11	0.00E+00	2.75E-08	MND
ADPF [MJ]	1.39E+02	3.86E+00	2.53E+01	0.00E+00	4.70E+02	0.00E+00	6.79E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.90E-03	0.00E+00	1.42E+00	MND
TRACI LCIA Impacts (No	rth America)													
AP [kg SO₂ eq]	1.03E-02	1.28E-03	2.14E-03	0.00E+00	5.21E-02	0.00E+00	5.67E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.79E-07	0.00E+00	4.86E-04	MND
EP [kg N eq]	1.92E-03	1.13E-04	3.39E-04	0.00E+00	1.08E-02	0.00E+00	1.26E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-07	0.00E+00	7.79E-04	MND
GWPe [kg CO₂ eq]	7.60E+00	2.75E-01	1.33E+00	0.00E+00	3.64E+01	0.00E+00	3.72E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-04	0.00E+00	9.20E-02	MND
GWPi [kg CO₂ eq]	7.22E+00	2.76E-01	1.37E+00	0.00E+00	3.64E+01	0.00E+00	3.58E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-04	0.00E+00	9.16E-02	MND
ODP [kg CFC 11 eq]	8.39E-09	7.14E-16	1.68E-10	0.00E+00	3.72E-12	0.00E+00	3.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.06E-19	0.00E+00	4.51E-15	MND
Resources [MJ]	1.85E+01	5.15E-01	3.41E+00	0.00E+00	4.21E+01	0.00E+00	9.06E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.54E-04	0.00E+00	1.85E-01	MND
POCP [kg O₃ eq]	1.61E-01	2.95E-02	3.49E-02	0.00E+00	7.16E-01	0.00E+00	9.37E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-05	0.00E+00	8.87E-03	MND
Carbon Emissions and U	Jptake														
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]	2.44E-01	0.00E+00	4.87E-03	0.00E+00	0.00E+00	0.00E+00	9.94E-01	0.00E+00	MND						
BCEK [kg CO₂]	0.00E+00	0.00E+00	2.48E-01	0.00E+00	0.00E+00	0.00E+00	9.94E-01	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 for Infinity® 2 MG Cushion Modular with Nylon 6, per one square meter of installed flooring.



Impact Category	A1-A3	A4	A5	В1	B2	В3	B4	B5	B6	В7	C1	C2	C3	C4	D
Resource Use Indicator	rs														
RPR _E [MJ]	2.77E+01	1.55E-01	1.58E+00	0.00E+00	1.46E+02	0.00E+00	1.18E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-04	0.00E+00	1.72E-01	MND
RPR _M [MJ]	1.02E+00	0.00E+00	2.04E-02	0.00E+00	0.00E+00	0.00E+00	4.17E+00	0.00E+00	MND						
RPR _T [MJ]	2.87E+01	1.55E-01	1.60E+00	0.00E+00	1.46E+02	0.00E+00	1.23E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-04	0.00E+00	1.72E-01	MND
NRPR _E [MJ]	1.48E+02	3.89E+00	2.66E+01	0.00E+00	6.39E+02	0.00E+00	7.21E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.94E-03	0.00E+00	1.47E+00	MND
NRPR _M [MJ]	1.68E+01	0.00E+00	3.35E-01	0.00E+00	0.00E+00	0.00E+00	6.84E+01	0.00E+00	MND						
NRPR _T [MJ]	1.65E+02	3.89E+00	2.70E+01	0.00E+00	6.39E+02	0.00E+00	7.90E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.94E-03	0.00E+00	1.47E+00	MND
SM [kg]	1.70E+00	0.00E+00	3.39E-02	0.00E+00	0.00E+00	0.00E+00	6.92E+00	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 ³]	5.35E-02	5.32E-04	7.08E-03	0.00E+00	2.59E-01	0.00E+00	2.45E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.75E-07	0.00E+00	1.82E-04	MND
Output Flows and Was	te Categorie	s													
HWD [kg]	6.97E-06	1.12E-11	1.40E-07	0.00E+00	-6.61E-	0.00E+00	2.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-14	0.00E+00	3.66E-11	MND
NHWD [kg]	6.18E-01	3.39E-04	1.99E-01	0.00E+00	2.63E-01	0.00E+00	2.07E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.30E-07	0.00E+00	4.36E+00	MND
HLRW [kg]	9.46E-06	1.32E-08	6.62E-07	0.00E+00	7.17E-05	0.00E+00	4.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-11	0.00E+00	1.81E-08	MND
ILLRW [kg]	9.18E-03	1.12E-05	5.80E-04	0.00E+00	5.99E-02	0.00E+00	3.92E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-08	0.00E+00	1.62E-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]	9.82E-02	0.00E+00	1.54E-01	0.00E+00	0.00E+00	0.00E+00	1.01E+00	0.00E+00	MND						
MER [kg]	0.00E+00	0.00E+00	1.36E-02	0.00E+00	0.00E+00	0.00E+00	5.46E-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



Mannington Commercial Infinity® 2 MG Cushion Modular with Nylon 6 – 36 oz Results

Table 22: LCIA results for Infinity® 2 MG Cushion Modular with Nylon 6, per one square meter of installed flooring.

Impact Category	A1-A3	A4	A5	B1	B2	В3	B4	B5	В6	В7	C1	C2	C3	C4	D
IPCC AR5	AI-A3	A4	A5	DI	DZ	D3	D4	□5	ВО	D/	CI	C2	<u> </u>	C4	D
GWPe [kg CO₂ eq]	8.29E+00	3.02E-01	1.42E+00	0.00E+00	3.74E+01	0.00E+00	4.05E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.81E-04	0.00E+00	1.02E-01	MND
GWPi [kg CO₂ eq]	7.91E+00	3.02E-01	1.42E+00	0.00E+00	3.74E+01	0.00E+00	3.91E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.81E-04	0.00E+00	1.02E-01	MND
CML LCIA Impacts (Euro	, ,		1.40L*00	0.00L+00	3./4L*01	0.00L+00	3.91L*01	0.00L+00	0.00L+00	0.00L+00	0.00L+00	3.01L-04	0.00L*00	1.02L-01	IVIIND
GWPe [kg CO₂ eq]	8.16E+00	2.98E-01	1.36E+00	0.00E+00	3.66E+01	0.00E+00	3.96E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-04	0.00E+00	9.98E-02	MND
GWPi [kg CO₂ eq]	7.78E+00	2.98E-01	1.30E+00	0.00E+00	3.67E+01	0.00E+00	3.90L+01 3.83E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-04	0.00E+00	9.94E-02	MND
ODP [kg CFC 11 eq]	7.70E-09	4.30E-14	-	0.00E+00	2.07E-10	0.00E+00	3.03L+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.45E-17	0.00E+00	2.72E-13	MND
<u> </u>			1.55E-10												MND
AP [kg SO ₂ eq]	1.00E-02 1.46E-03	9.97E-04	1.57E-03	0.00E+00	4.92E-02	0.00E+00	5.23E-02	0.00E+00 0.00E+00	0.00E+00	0.00E+00	0.00E+00 0.00E+00	7.74E-07 2.40E-07	0.00E+00 0.00E+00	4.93E-04 1.06E-03	MND
EP [kg Phosphate eq]		2.91E-04	5.52E-04	0.00E+00	7.24E-03	0.00E+00 0.00E+00	1.35E-02	0.00E+00	0.00E+00 0.00E+00	0.00E+00	0.00E+00		0.00E+00		MND
POCP [kg Ethene eq]	1.64E-03	-3.70E-	2.85E-04	0.00E+00	4.07E-03	0.00E+00	6.37E-03			0.00E+00	0.00E+00	-2.70E-		3.72E-05	MND
ADPE [kg Sb eq]	1.44E-05	2.20E-08	3.64E-06	0.00E+00	3.99E-06		7.22E-05	0.00E+00	0.00E+00	0.00E+00		2.78E-11	0.00E+00	2.96E-08	
ADPF [MJ] 1.45E+02 4.17E+00 2.55E+01 0.00E+00 4.70E+02 0.00E+00 7.03E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 5.28E-03 0.00E+00 1.53E+00 MND TRACI LCIA Impacts (North America)														MIND	
•	I	l	2465 00	0.005.00	5.24E 0.2	0.005.00	6005 00	0.005.00	0.005.00	0.005.00	0.005.00	1065.06	0.005.00		MNID
AP [kg SO ₂ eq]	1.09E-02	1.38E-03	2.16E-03	0.00E+00	5.21E-02	0.00E+00	6.00E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-06	0.00E+00	5.24E-04	MND
EP [kg N eq]	2.01E-03	1.22E-04	3.42E-04	0.00E+00	1.08E-02	0.00E+00	1.32E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-07	0.00E+00	8.39E-04	MND
GWPe [kg CO₂ eq]	8.08E+00	2.97E-01	1.34E+00	0.00E+00	3.64E+01	0.00E+00	3.93E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.75E-04	0.00E+00	9.91E-02	MND
GWPi [kg CO₂ eq]	7.70E+00	2.97E-01	1.38E+00	0.00E+00	3.64E+01	0.00E+00	3.79E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-04	0.00E+00	9.87E-02	MND
ODP [kg CFC 11 eq]	8.34E-09	7.70E-16	1.67E-10	0.00E+00	3.72E-12	0.00E+00	3.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.76E-19	0.00E+00	4.86E-15	MND
Resources [MJ]	1.91E+01	5.56E-01	3.42E+00	0.00E+00	4.21E+01	0.00E+00	9.32E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.04E-04	0.00E+00	1.99E-01	MND
POCP [kg O ₃ eq]	1.76E-01	3.19E-02	3.53E-02	0.00E+00	7.16E-01	0.00E+00	1.01E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-05	0.00E+00	9.56E-03	MND
Carbon Emissions and Uptake														ı	
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]	2.44E-01	0.00E+00	4.87E-03	0.00E+00	0.00E+00	0.00E+00	9.94E-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	2.48E-01	0.00E+00	0.00E+00	0.00E+00	9.94E-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 23: Resource use, waste, and output flow results for Infinity® 2 MG Cushion Modular with Nylon 6, per one square meter of installed flooring.

Impact Category	A1-A3	A4	A5	B1	B2	В3	В4	B5	В6	В7	C1	C2	C3	C4	D
Resource Use Indicators															
RPR _E [MJ]	3.01E+01	1.67E-01	1.62E+00	0.00E+00	1.46E+02	0.00E+00	1.28E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-04	0.00E+00	1.85E-01	MND
RPR _M [MJ]	1.02E+00	0.00E+00	2.03E-02	0.00E+00	0.00E+00	0.00E+00	4.14E+00	0.00E+00	MND						
RPR _T [MJ]	3.11E+01	1.67E-01	1.64E+00	0.00E+00	1.46E+02	0.00E+00	1.32E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-04	0.00E+00	1.85E-01	MND
NRPR _E [MJ]	1.58E+02	4.20E+00	2.68E+01	0.00E+00	6.39E+02	0.00E+00	7.62E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.32E-03	0.00E+00	1.58E+00	MND
NRPR _M [MJ]	1.67E+01	0.00E+00	3.33E-01	0.00E+00	0.00E+00	0.00E+00	6.80E+01	0.00E+00	MND						
NRPR _T [MJ]	1.74E+02	4.20E+00	2.72E+01	0.00E+00	6.39E+02	0.00E+00	8.30E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.32E-03	0.00E+00	1.58E+00	MND
SM [kg]	2.05E+00	0.00E+00	4.11E-02	0.00E+00	0.00E+00	0.00E+00	8.37E+00	0.00E+00	MND						
RSF [MJ]	0.00E+00	MND													
NRSF [MJ]	0.00E+00	MND													
RE [MJ]	0.00E+00	MND													
FW [m ³]	5.41E-02	5.74E-04	7.09E-03	0.00E+00	2.59E-01	0.00E+00	2.48E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.27E-07	0.00E+00	1.96E-04	MND
Output Flows and Waste Categories															
HWD [kg]	6.93E-06	1.21E-11	1.39E-07	0.00E+00	-6.61E-	0.00E+00	2.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-14	0.00E+00	3.94E-11	MND
NHWD [kg]	6.81E-01	3.65E-04	2.07E-01	0.00E+00	2.63E-01	0.00E+00	2.24E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.63E-07	0.00E+00	4.70E+00	MND
HLRW [kg]	1.10E-05	1.43E-08	6.93E-07	0.00E+00	7.17E-05	0.00E+00	4.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-11	0.00E+00	1.96E-08	MND
ILLRW [kg]	1.06E-02	1.20E-05	6.08E-04	0.00E+00	5.99E-02	0.00E+00	4.49E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-08	0.00E+00	1.75E-05	MND
CRU [kg]	0.00E+00	MND													
MR [kg]	9.82E-02	0.00E+00	1.54E-01	0.00E+00	0.00E+00	0.00E+00	1.01E+00	0.00E+00	MND						
MER [kg]	0.00E+00	0.00E+00	1.36E-02	0.00E+00	0.00E+00	0.00E+00	5.46E-02	0.00E+00	MND						
EEE [MJ]	0.00E+00	MND													
EET [MJ]	0.00E+00	MND													



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