



Milliken™

ENVIRONMENTAL PRODUCT DECLARATION

CARPET TILE - WELLBAC® COMFORT BACKING

North America - Solution Dyed
Eco Recycled Nylon 6

WellBAC® Comfort is Milliken's cushion back modular tile. In addition to providing superior underfoot comfort and significantly improving the carpet's wear performance, WellBAC® Comfort also offers installation, ergonomic, acoustic, safety and environmental benefits.

Milliken has a rich history of delivering innovative flooring solutions from our research center, manufacturing facilities and our creative collective of inspired problem solvers. Milliken's reliable and stylish flooring products offer great design solutions built from unique insights and an exceptional array of technical capabilities.

We believe material health is essential to enable circularity. The use of materials that don't contain harmful chemicals is a critical pathway to end-of-life product recycling. Our carpet products have 100% transparency in materials to 100ppm. This level of materials transparency and a continued focus to improving material health is core to our commitment to reduce climate change. Our carpet, resilient flooring, and entryway tile are recyclable. We will continue to invest in new technology and create flooring products that enable you to make better choices.

For More Information or Sustainability
Questions Contact us at:
Millikenfloors.com | 800.824.2246



ENVIRONMENTAL PRODUCT DECLARATION



Carpet Tile - WellBAC® Comfort Backing
North America - Solution Dyed Eco Recycled Nylon 6

According to ISO 14025 and
ISO21930:2017

EPD PROGRAM AND PROGRAM OPERATOR NAME, ADDRESS, LOGO, AND WEBSITE	UL Solutions 333 Pfingsten Rd, Northbrook IL, 60062 www.ul.com www.spot.ul.com
GENERAL PROGRAM INSTRUCTIONS AND VERSION NUMBER	Program Operator Rules v 2.7 2022
MANUFACTURER NAME AND ADDRESS	Milliken, 300 Lukken Industrial Dr., LaGrange GA 30240
DECLARATION NUMBER	4791117385.102.1
DECLARED PRODUCT & FUNCTIONAL UNIT OR DECLARED UNIT	1 m ² of North America Carpet Tile - WellBAC® Comfort Backing with Solution Dyed Nylon Technology Eco Recycled Nylon 6 installed in a building for 75 years.
REFERENCE PCR AND VERSION NUMBER	Part A: Life Cycle Assessment Calculation Rules and Report Requirements, (UL Environment, V4.0, 2022) and Part B: Flooring EPD Requirements (UL Environment V2.0, 2018)
DESCRIPTION OF PRODUCT APPLICATION/USE	Carpet flooring for interior use
PRODUCT RSL DESCRIPTION (IF APPL.)	15 Years
MARKETS OF APPLICABILITY	Americas
DATE OF ISSUE	May 1, 2024
PERIOD OF VALIDITY	5 Years
EPD TYPE	Manufacturer Specific
EPD SCOPE	Cradle to Grave
YEAR(S) OF REPORTED PRIMARY DATA	2022
LCA SOFTWARE & VERSION NUMBER	LCA FE 10.7.1.28 (formerly GaBi)
LCI DATABASE(S) & VERSION NUMBER	MLC Database 2023.3 (formerly GaBi Database)
LCIA METHODOLOGY & VERSION NUMBER	TRACI 2.1, CML 2001-Jan 2016, and IPCC AR5
LCA MODEL VERSION	0.1

The PCR review was conducted by:

UL Solutions

PCR Review Panel

ul@epd.com

This declaration was independently verified in accordance with ISO 21930:2017 and ISO 14025: 2006.

INTERNAL

EXTERNAL

Cooper McCollum
Cooper McCollum, UL Solutions

This life cycle assessment was conducted in accordance with ISO 14044 and the reference PCR by:

WAP Sustainability

This life cycle assessment was independently verified in accordance with ISO 14044 and the reference PCR by:

Jim Mellentine, Thrive ESG

LIMITATIONS

Exclusions: EPDs do not indicate that any environmental or social performance benchmarks are met, and there may be impacts that they do not encompass. LCAs do not typically address the site-specific environmental impacts of raw material extraction, nor are they meant to assess human health toxicity. EPDs can complement but cannot replace tools and certifications that are designed to address these impacts and/or set performance thresholds - e.g. Type 1 certifications, health assessments and declarations, environmental impact assessments, etc.

Accuracy of Results: EPDs regularly rely on estimations of impacts; the level of accuracy in estimation of effect differs for any particular product line and reported impact.

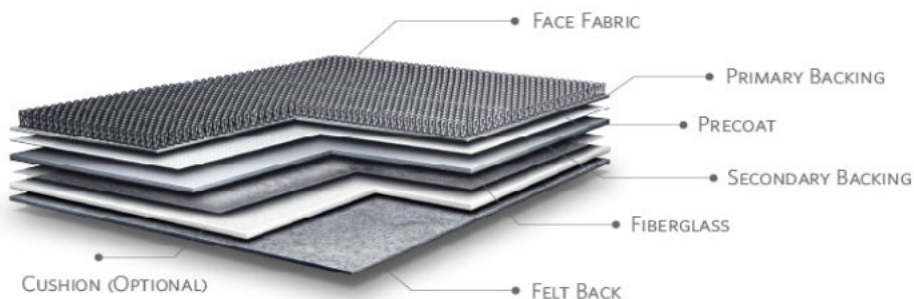
Comparability: This EPD meets all comparability requirements stated in ISO 21930:2017 and ISO 14025:2006. However, differences in certain assumptions, data quality, and variability between LCA data sets may still exist. As such, caution should be exercised when evaluating EPDs from different manufacturers or programs, as the EPD results may not be entirely comparable. Any EPD comparison must be carried out at the construction works level per ISO 21930:2017 guidelines. The results of this EPD reflect an average performance by the product and its actual impacts may vary on a case-to-case basis. Examples of variations: Different LCA software and background LCI datasets may lead to differences results for upstream or downstream of the life cycle stages declared.

1. Product Definition and Information

1.1. Description of Company/Organization

Milliken & Company is an innovation company that has been exploring, discovering, and creating ways to enhance people’s lives since 1865. The company is a privately held for-profit corporation. The company is headquartered in Spartanburg, South Carolina, and operates design and manufacturing facilities in the United States, United Kingdom, Australia and China. In 2023, Milliken was recognized as one of the [world’s most ethical companies](#) by Ethisphere for the seventeenth consecutive year.

1.2. Product Description



Product Identification

This EPD represents Milliken’s WellBac® Comfort Backed Carpet Tile manufactured in the US. The face fiber used in the carpet is solution-dyed 100% Eco Recycled Nylon 6. The nylon 6 yarn is made of 100% recycled content. Within this product family, there are several collections each of which varies in face weight and the design printed on the face yarn (See this document to determine which [collections](#) covered under Milliken’s EPDs). The product addressed in the body of this EPD is an average product from the running line collections of this family. To account for custom products and new collections, additional results for products in this family with different face weights are presented in Section 8 and embodied carbon values for all possible faceweights are provided in Section 4.3.

A carpet tile’s backing is critical to its performance, durability and appearance retention. The right backing will not only ensure the carpet tile remains dimensionally stable and flat on the floor, it can provide acoustic, insulation and sustainability benefits. In addition to providing superior underfoot comfort and significantly improving the carpet’s wear performance, WellBAC® Comfort also offers installation, ergonomic, acoustic, safety and environmental benefits.

Product Specification

The product is described using the specifications outlined in Table 2. Additionally, the product has performance characteristics outlined in Table 1. Additional product-specific performance attributes are listed on each product’s specification sheet.



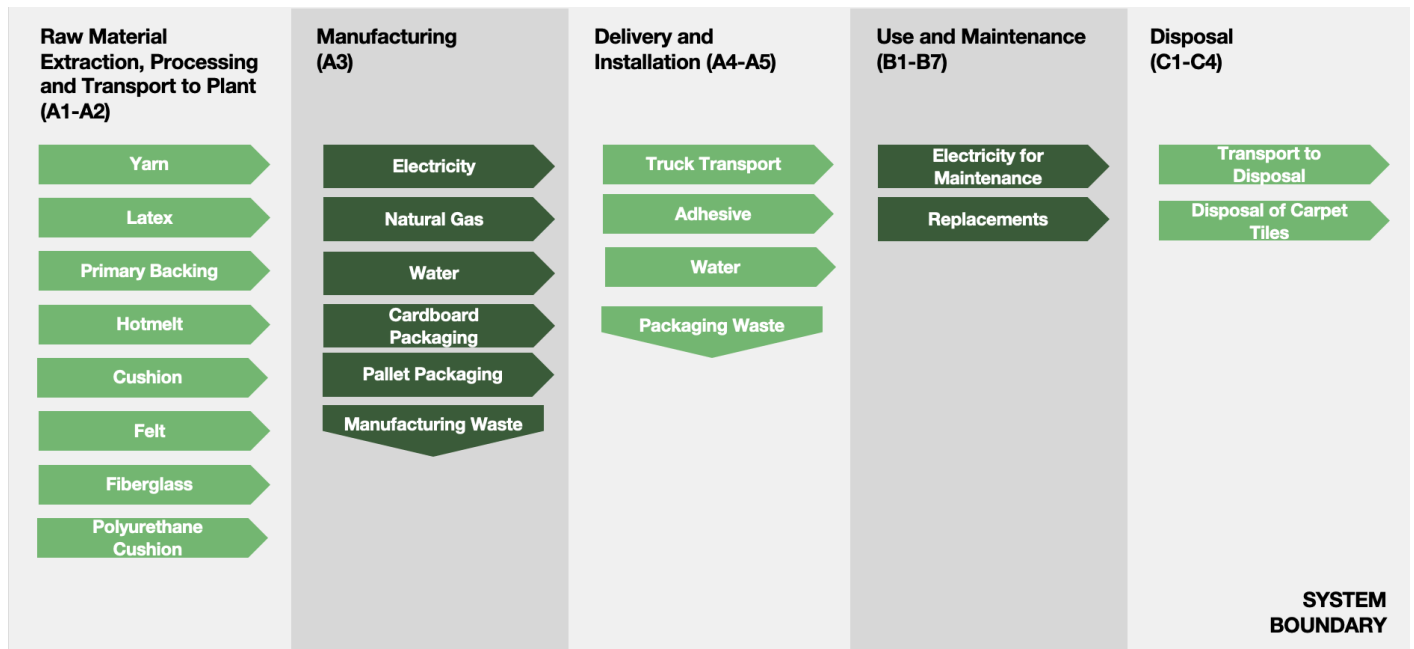
Carpet Tile - WellBAC® Comfort Backing
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According to ISO 14025 and ISO 21930:2017

Table 1: Carpet Performance Testing

NAME	VALUE	UNIT
Static Electricity (AATCC 134)	≤ 3.5	kV
Flammability (ASTM E 648)	≥0.45 (Class I)	-
Smoke Density (ASTM E 662)	≤450	-
Methenamine Pill Test (CPSC FF-1-70 or ASTM D 2859)	Self-Extinguishing	-

Flow Diagram



Product Average

An average based on product construction was utilized for the life cycle assessment. The average was created by utilizing the standard formulation for the backing and the weighted sales average for the face fiber. This is deemed to be an accurate representation of an average flooring product.

1.3. Application

Milliken & Company's floor coverings are quiet, healthy, and provide a desired aesthetic for any office, hotel, school, home or commercial environment around the world.



1.4. Declaration of Methodological Framework

This LCA is a cradle-to-grave study. A summary of the life cycle stages can be found in Table 18.

The reference service life is outlined in Table 10 and is only applicable if all manufacturing guidelines are followed regarding site-selection and installation, found online.

The cut-off criteria are described in Section 2.4 and allocation procedures are described in Section 2.8. No known flows are deliberately excluded from this EPD.

1.5. Technical Requirements

The following technical data describe the product undergoing the life cycle assessment.

Table 2: Carpet Technical Data

NAME	VALUE	UNIT
Product Form	Carpet tile	-
Type of Manufacturing	Solution Dyed Nylon, Tufted Nylon 6 on coated backing	-
Yarn Type	Eco Recycled Nylon 6	-
Primary Backing Type	Polyester, Nylon 6	-
Cushion Backing	Open Cell Polyurethane	-
Product Weight	3.31	kg/m ²
Surface Pile Thickness	2.62-3.81	mm
Surface Pile Weight	0.578 - 0.580	kg/m ²
CRI Rating	Heavy (>3)	-
Total Thickness	7.1-17.0	mm

1.6. Properties of Declared Product as Delivered

WellBAC® Comfort backed modular carpet tiles come in sizes of 1mx1m, 50cmx50cm, and 25cmx1m. The tiles are stacked and a cardboard wrapping is placed around the stack to protect the product. These are then stacked on pallets for shipment.

The products declared in this document comply with the following codes or regulations:

- | | |
|------------------------------|-----------------------------------|
| ASTM E 648-17 Radiant Panel | ASTM D6859 Pile Thickness |
| ASTM E 662-17a Smoke Density | ASTM D5793 Stitches |
| ASTM D2859 Pill Test | ASTM D5793 Gauge |
| AATCC 134-2011 GSA Static | ASTM D7570 AACHEN/ISO 2551 Aachen |
| ASTM D5848 Pile weight | ASTM D1335 Tuft Bind |
| ASTM D5848 Pile Density | AATCC 16.3 Lightfastness |

1.7. Material Composition

The materials that make up the flooring product are indicated in Table 3.

Table 3: Material Composition

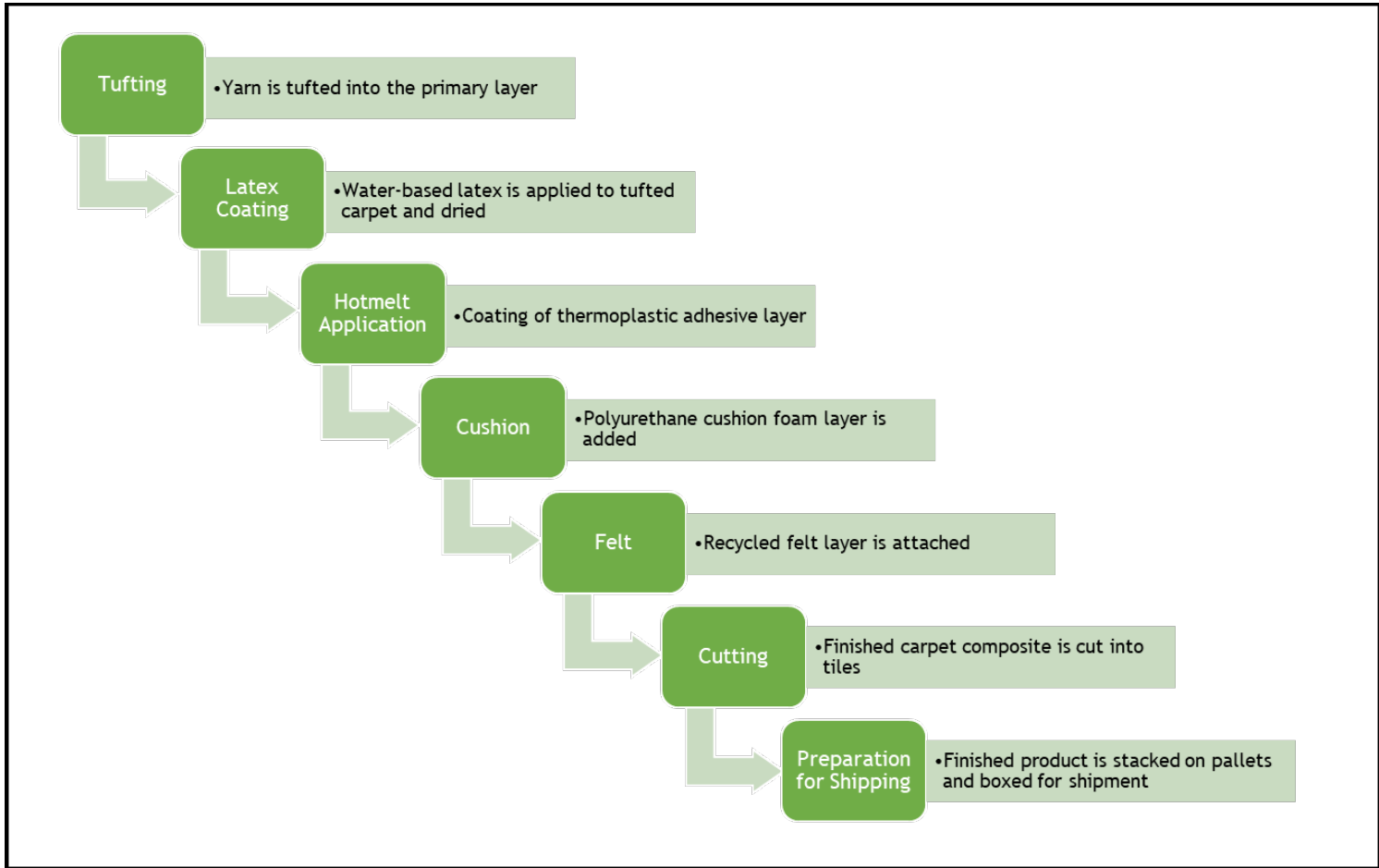
COMPONENT	MATERIAL	MASS %
Face fiber*	Nylon 6 / Nylon 6,6	14-22%
Primary backing	Polyester, Nylon 6	3-4%
Latex	VAE, Limestone	13-14%
Hotmelt	Calcium Carbonate, Asphalt	35-46%
Cushion	Limestone, Polyol	15-20%
Fiberglass	E-glass	1-3%
Felt	Polypropylene, Polyethylene terephthalate	3-5%

*This product family covers a range of face fiber weights. The results presented in this EPD represent an average face weight of 20.5 oz/m². Scenarios for additional face weights are presented in Section 8.

The product does not contain hazardous substances per the applicable regional-specific legislation, as indicated in Section 2.8.6 of *Part A: Life Cycle Assessment Calculation Rules and Report Requirements* from UL Environment.

1.8. Manufacturing

WellBAC® Comfort Backed, solution dyed nylon modular tiles are manufactured at Duncan Stewart, Alma and Live Oak facilities in the US. Tufting is the process of affixing face fiber to a primary backing system. Application of latex backing, hotmelt, polyurethane backing, glass fiber scrim and a felt to the tufted primary backing is called coating. The hotmelt layer is primarily composed of bitumen and limestone. The polyurethane cushion backing is primarily composed of calcium carbonate and polyols. The mixing of these layers occurs in batch containers and is then applied to the primary backing. Finally the carpet is cut and packaged for shipping.



1.9. Packaging

Packaging utilized in the shipment of the product is described in Table 4.

Table 4: Packaging

PACKAGING TYPE	MATERIAL	AMOUNT (KG)	DISPOSAL PATHWAY
Box	Corrugated Cardboard	0.0759	Landfill, incineration, recycle
Pallet	Wood	0.182	Landfill

1.10. Transportation

In the LCA model underlying this EPD, it is assumed that all raw materials are distributed by truck. An distance of 800 km was used to model all raw material transportation and in the model as guided by section 3.5 of the UL Part B Flooring PCR. This same assumption was used in modeling distribution to customers.

1.11. Product Installation

While installation equipment is required to install the flooring product, it is not included in the study as these are multi-use tools and the impacts per declared unit is considered negligible. 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.

Except where exceeded or modified by Milliken Carpet Installation Instructions, Milliken recognizes the CRI Carpet Installation Standard 2011 as the minimum acceptable standard for the installation of its carpet products, for more information, visit our website, www.millikencarpet.com.

Sub floor moisture: Milliken warrants that our modular carpet will withstand vapor emission from the slab for the lifetime of the original carpet installation. Technically speaking, we guarantee our carpet tile and adhesive will form a bond that provides tack and resistance to lateral movement while the pressure sensitive adhesive will allow for the removal of the modular carpet allowing for maintenance of the space throughout the life of the carpet.

Adhesive: Milliken modular carpet is designed for installation without permanent adhesives. This allows easy removal and reinstallation. Milliken recommends TractionBack® for all carpet tiles adhesive. If TractionBack® is not available; Milliken recommends Milliken Non-Reactive Standard Adhesive or Milliken Moisture Extreme Spray Adhesive.

Detailed installation instructions are provided online at [Milliken Flooring Covering’s technical documentation webpage](#).

1.12. Use

The method of maintenance is using a vacuum cleaner to remove dust and debris from carpet with occasional deep cleaning. Vacuuming was assumed to occur five days a week during working weeks. Deep cleaning, which consumes electricity, detergent, and water, was modeled as occurring twice per year.

Table 5: Use Phase Assumptions

TYPE	CLEANINGS PER YEAR	UNIT
Vacuuming	250	#
Deep Cleaning	2	#

Carpet products are traditionally not repaired or refurbished. If a single carpet tile gets stained or damaged, it can be removed and replaced with a new tile assuming the correct installation method was used per the manufacturer’s instructions. Detailed maintenance instructions are provided online at [Milliken Flooring Covering’s technical documentation webpage](#).

1.13. Reference Service Life and Estimated Building Service Life

The reference service life of the product is 15 years. For a building’s estimated service life of 75 years, this means the carpet will be replaced 4 times, meaning 5 m² of tile is needed over the full life of the building. The reference service life assumes the product was installed according to the manufacturer’s recommendations.



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1.14. Reuse, Recycling, and Energy Recovery

Milliken’s modular carpet tiles are 100% recyclable. Keeping unnecessary waste out of landfill is a key part of Milliken’s environmental commitment. The Milliken Carpet Take Back program provides a non-landfill disposal solution and ensures that used carpet is recovered and managed in the most environmentally, socially and financially responsible way. In other cases, carpet is downcycled into construction products and plastic composites. Another option, to further reduce global fossil fuel consumption, is to convert the carpet into a fuel source for use in other industries.

1.15. Disposal

Disposal pathways in the EPD are modeled in accordance with disposal routes and waste classification referenced in Sections 2.8.5 and 2.8.6 of *Part A: Life Cycle Assessment Calculation Rules and Report Requirements* from UL Environment. For North American products not made out of metal, this dictates an End-of-Life scenario of 100% landfilling.

2. Life Cycle Assessment Background Information

2.1. Functional Unit

The functional unit of the flooring product is one (1) m² of floor covering, as indicated in Table 6. Values in Table 6 represent finished carpet tile, installation materials, packaging, and the mass of product lost during installation for 1 m² of carpet tile.

Table 6: Functional Unit

NAME	VALUE	UNIT
Functional Unit	1	m ²
Mass	3.73	kg

2.2. System Boundary

The type of EPD is cradle-to-grave. All LCA modules are included and are summarized in Table 7



Table 7: System Boundary

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, water and material 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 adhesives, 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	Materials and energy required to repair the product.
B4	Use Stage: Replacement	2022	Total materials and energy required to manufacture a replacement.
B5	Use Stage: Refurbishment	2022	Materials and energy required to refurbish the product.
B6	Operational Energy Use	2022	Operational Energy Use of Building Integrated System During Product Use
B7	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 landfill. Fuel use requirements estimated based on product weight and mapped distance.
C3	EOL: Waste Processing	2022	Waste processing not required. All waste can be processed as is.
C4	EOL: Disposal	2022	Assumes all products are sent to landfill. Landfill impacts modeled based on secondary data.
D	Benefits beyond system	2022	Module not declared.

2.3. 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 including all utility usage and production information. For the LCA, the usage information was divided by the production to create an energy and water use per square meter. Another assumption is that the installation tools are used enough times that the per square meter impacts are negligible.

2.4. Cut-off Criteria

All known 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. Cumulative excluded material inputs and environmental impacts are less than 5% based on total weight of the functional unit. The excluded materials include:

Spot cleaning chemicals are not included due to the infrequency of the activity during use phase.

- VOC emissions from adhesive curing were excluded from this model. This was justified based on Milliken’s installation instructions explicitly calling for the use of a low VOC adhesive.



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21930:2017

No other known flows were excluded in the modeling of this product. Background datasets (from Sphera's Managed LCA Content database) may inherently exclude some flows which were unknown to practitioners creating this model.

2.5. Data Sources

Primary data were collected by facility personnel and from utility bills and was used for all manufacturing processes. When primary data did not exist, secondary data for raw material production was utilized from Sphera's Managed LCA Content (MLC) version 2023.3 (formerly GaBi Database).

2.6. Data Quality

The geographical scope of the manufacturing portion of the life cycle is Duncan Stewart, Alma and Live Oak facilities in the US. 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. Using this data meets the PCR requirements. Time coverage of this data is considered very good. Primary data provided by the manufacturer is specific to the technology that Milliken uses in manufacturing their product. It is site-specific and considered of good quality. It is worth noting that the energy and water used in manufacturing the product includes overhead energy such as lighting, heating and sanitary use of water. Sub-metering would improve the technological coverage of data quality. Data necessary to model cradle-to-gate unit processes was sourced from MLC datasets. Improved life cycle data from suppliers would improve technological coverage.

2.7. Period under Review

The period under review is calendar year 2022.

2.8. Allocation

General principles of allocation were based on ISO 14040/44. Where possible, allocation was avoided. When allocation was necessary it was done on using area. Allocation by area was deemed appropriate for the type of production used at Milliken & Company facilities as consumption of manufacturing inputs and production of waste outputs is more closely tied to the area of carpet produced than it is to the mass produced. Allocation was also prevalent in the secondary MLC datasets used to represent upstream processes. As a default, MLC datasets use a physical mass basis for allocation.



3. Life Cycle Assessment Scenarios

Table 8. Reference Service Life

NAME	VALUE
Product Reference Service Life (RSL)	15 years
Building Estimated Service Life (ESL)	75 Years
Declared product properties (at the gate) and finishes, etc.	See Table 1
Design application parameters	Per recommendation by manufacturer
An assumed quality of work, when installed in accordance with the manufacturer's instructions	Accepted industry standard
Indoor environment (if relevant for indoor applications)	Normal building operating conditions
Use conditions, e.g. frequency of use, mechanical exposure	Normal building operating conditions

Table 9. Transport to the building site (A4)

NAME	VALUE	UNIT
Fuel type	Diesel	-
Liters of fuel	38.8	l/100km
Vehicle type	Truck - Trailer, basic enclosed/ 45,000 lb payload	-
Transport distance	800	km
Capacity utilization	0.67	%
Gross density of products transported	370	kg/m ³
Capacity utilization volume factor	0.85	-

Table 10. Installation into the building (A5)

NAME	VALUE	UNIT
Adhesive	0.097	kg
Product loss per functional unit	0.0661	kg
Waste materials at the construction site before waste processing, generated by product installation	0.325	kg
Output materials resulting from on-site waste processing	0	kg
Biogenic carbon contained in cardboard packaging	0.120	kg CO2
Biogenic carbon contained in wooden pallet	0.288	kg CO2
Direct emissions to ambient air, soil and water	-	kg
VOC content of flooring ¹	<0.5	µg/m ³

Table 11. Maintenance (B2)

NAME	VALUE	UNIT
Maintenance process information	Manufacturer recommended	-
Vacuuming Maintenance cycle	3750	Number/ RSL
Vacuuming Maintenance cycle	18,750	Number/ ESL
Electricity for vacuuming	0.95	kWh/m ² floor/yr
Power output of vacuum	1.65	kW
Deep Cleaning Maintenance Cycle	30	Number/ RSL
Deep Cleaning Maintenance Cycle	150	Number/ ESL
Electricity for Deep Cleaning	0.05	kWh/m ² floor/yr
Power Output of Equipment	1.4	kW
Water for Deep Cleaning	1.9	kg/m ² /y
Detergent for Deep Cleaning	0.1	kg/m ² /y

Table 12. Repair (B3)

NAME	VALUE	UNIT
Repair process information	Product typically not repaired during use	

Table 13. Replacement (B4)

NAME	VALUE	UNIT
Replacement cycle	0	Number/ RSL
Replacement cycle	4	Number/ ESL
Energy input, specified by activity, type and amount	0	kWh
Net freshwater consumption specified by water source and fate	0	m ³
Adhesive	0.097	kg/ replacement
Direct emissions to ambient air, soil and water	-	kg
Further assumptions for scenario development, e.g. frequency and time period of use		As appropriate

¹ Milliken Carpet products are certified to GRI Green Label Plus which adheres to the Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources using Environmental Chambers- version 1.2 CA Specification 01350.

Table 14. Refurbishment (B5)

NAME	VALUE	UNIT
Refurbishment process description	Product typically not refurbished during use	

Table 15: Operational Energy Use (B6) and Operational Water Use (B7)

NAME	VALUE	UNIT
Operational Energy/Water Description	Product does not use energy or water	

Table 16: End of life (C1-C4)

NAME	VALUE	UNIT
Assumptions for scenario development	Product is either disposed of with the underlying floor or manually removed via scraping	
Collection	Collected separately	0 kg

NAME	VALUE	UNIT
process	Collected with mixed construction waste*	3.40 kg
Recovery	Reuse	0 kg
	Recycling	0 kg
	Landfill*	3.40 kg
	Incineration	0 kg
	Incineration with energy recovery	0 kg
	Energy conversion efficiency rate	84-94 %
Disposal	Product or material for final deposition*	3.40 kg

*Includes weight of product and adhesive

Table 17: Reuse, recovery and/or recycling potentials (D), relevant scenario information

NAME	VALUE	UNIT
Module Not Declared		

4. Life Cycle Assessment Results

Table 18: Description of the system boundary modules

	PRODUCT STAGE			CONSTRUCTION PROCESS STAGE		USE STAGE							END OF LIFE STAGE				BENEFITS AND LOADS BEYOND THE SYSTEM BOUNDARY
	A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	
	Raw material supply	Transport	Manufacturing	Transport from gate	Assembly/Install	Use	Maintenance	Repair	Replacement	Refurbishment	Building Operational Energy Use	Building Operational Water Use	Deconstruction	Transport	Waste processing	Disposal	Reuse, Recovery, Recycling Potential
EPD Type	X			X	X	X	X	X	X	X	X	X	X	X	X	X	MND

4.1. Life Cycle Impact Assessment Results

Table 19: North American Impact Assessment Results*

	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4
IPCC AR5 Impacts														
GWPe100 [kg CO ₂ eq]	8.30E+0 0	2.17E-01	4.03E-01	0.00E+0 0	3.74E+0 1	0.00E+00	3.61E+01	0.00E+0 0	0.00E+0 0	0.00E+0 0	0.00E+0 0	4.15E-02	0.00E+0 0	7.34E-02
GWPi 100 [kg CO ₂ eq]	7.81E+0 0	2.17E-01	4.29E-01	0.00E+0 0	3.74E+0 1	0.00E+00	3.43E+01	0.00E+0 0	0.00E+0 0	0.00E+0 0	0.00E+0 0	4.15E-02	0.00E+0 0	7.32E-02
TRACI 2.1 Impacts														
ODP [kg CFC-11 eq]	8.46E-07	5.53E-16	1.69E-08	0.00E+0 0	3.72E-12	0.00E+00	3.45E-06	0.00E+00	0.00E+0 0	0.00E+0 0	0.00E+0 0	1.06E-16	0.00E+0 0	3.50E-15
AP [kg SO ₂ eq]	9.57E-03	1.06E-03	1.01E-03	0.00E+0 0	5.21E-02	0.00E+00	4.86E-02	0.00E+00	0.00E+0 0	0.00E+0 0	0.00E+0 0	1.23E-04	0.00E+0 0	3.78E-04
EP [kg N eq]	3.98E-03	9.23E-05	2.53E-04	0.00E+0 0	1.08E-02	0.00E+00	1.85E-02	0.00E+00	0.00E+0 0	0.00E+0 0	0.00E+0 0	1.26E-05	0.00E+0 0	2.77E-04
Resources [MJ, LHV]	1.74E+0 1	3.99E-01	6.34E-01	0.00E+0 0	4.21E+0 1	0.00E+00	7.45E+0 1	0.00E+00	0.00E+0 0	0.00E+0 0	0.00E+0 0	7.68E-02	0.00E+0 0	1.43E-01
POCP [kg O ₃ eq]	1.76E-01	2.46E-02	8.89E-03	0.00E+0 0	7.16E-01	0.00E+00	8.75E-01	0.00E+00	0.00E+0 0	0.00E+0 0	0.00E+0 0	2.82E-03	0.00E+0 0	6.88E-03

Table 20: EU Impact Assessment Results

	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4
CML 2001 (v4.2) Impacts														
GWP 100 [kg CO ₂ eq]	7.63E+0 0	2.14E-01	3.89E-01	0.00E+0 0	3.67E+0 1	0.00E+00	3.34E+0 1	0.00E+0 0	0.00E+0 0	0.00E+0 0	0.00E+0 0	4.11E-02	0.00E+0 0	7.16E-02
ODP [kg CFC-11 eq]	8.45E-07	3.09E-14	1.69E-08	0.00E+0 0	2.07E-10	0.00E+00	3.45E-06	0.00E+0 0	0.00E+0 0	0.00E+0 0	0.00E+0 0	5.95E-15	0.00E+0 0	1.96E-13
AP [kg SO ₂ eq]	8.51E-03	7.69E-04	6.28E-04	0.00E+0 0	4.92E-02	0.00E+00	4.14E-02	0.00E+0 0	0.00E+0 0	0.00E+0 0	0.00E+0 0	9.03E-05	0.00E+0 0	3.55E-04
EP [kg PO ₄ -3 eq]	2.23E-03	2.23E-04	2.98E-04	0.00E+0 0	7.24E-03	0.00E+00	1.26E-02	0.00E+0 0	0.00E+0 0	0.00E+0 0	0.00E+0 0	2.77E-05	0.00E+0 0	3.62E-04
POCP [kg ethene eq]	1.07E-03	-3.04E-04	1.11E-04	0.00E+0 0	4.07E-03	0.00E+00	3.48E-03	0.00E+0 0	0.00E+0 0	0.00E+0 0	0.00E+0 0	-3.31E-05	0.00E+0 0	2.68E-05
ADPelement [kg Sb-eq]	1.29E-05	1.58E-08	3.42E-07	0.00E+0 0	3.99E-06	0.00E+00	5.30E-05	0.00E+0 0	0.00E+0 0	0.00E+0 0	0.00E+0 0	3.03E-09	0.00E+0 0	2.14E-08
ADPfossil [MJ, LHV]	1.33E+0 2	2.99E+0 0	4.71E+00	0.00E+0 0	4.70E+0 2	0.00E+00	5.70E+0 2	0.00E+0 0	0.00E+0 0	0.00E+0 0	0.00E+0 0	5.76E-01	0.00E+0 0	1.10E+00

*These impact categories 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.



Carpet Tile - WellBAC® Comfort Backing
North America - Solution Dyed Eco Recycled Nylon 6

According to ISO 14025 and ISO 21930:2017

4.2. Life Cycle Inventory Results

Table 21: Resource Use

PARAMETER	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4
RPRE [MJ, LHV]	1.75E+01	1.20E-01	8.15E-01	0.00E+00	1.46E+02	0.00E+00	7.42E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-02	0.00E+00	1.33E-01
RPRM [MJ, LHV]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RPRT [MJ, LHV]	1.75E+01	1.20E-01	8.15E-01	0.00E+00	1.46E+02	0.00E+00	7.42E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-02	0.00E+00	1.33E-01
NRPRE [MJ, LHV]	9.96E+01	3.02E+00	4.12E+00	0.00E+00	6.39E+02	0.00E+00	4.34E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.80E-01	0.00E+00	1.14E+00
NRPRM [MJ, LHV]	5.08E+01	0.00E+00	1.02E+00	0.00E+00	0.00E+00	0.00E+00	2.07E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NRPRT [MJ, LHV]	1.50E+02	3.02E+00	5.13E+00	0.00E+00	6.39E+02	0.00E+00	6.41E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.80E-01	0.00E+00	1.14E+00
SM [kg]	1.06E+00	0.00E+00	2.11E-02	0.00E+00	0.00E+00	0.00E+00	4.31E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RSF [MJ, LHV]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NRSF [MJ, LHV]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RE [MJ, LHV]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW [m3]	4.97E-02	4.12E-04	1.41E-03	0.00E+00	2.59E-01	0.00E+00	2.07E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.93E-05	0.00E+00	1.41E-04

Table 22: Output Flows and Waste Categories

PARAMETER	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4
HWD [kg]	3.51E-06	8.67E-12	6.45E-07	0.00E+00	-6.61E-09	0.00E+00	1.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-12	0.00E+00	2.84E-11
NHWD [kg]	2.82E-01	2.62E-04	1.83E-01	0.00E+00	2.63E-01	0.00E+00	1.55E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.05E-05	0.00E+00	3.40E+00
HLRW [kg] or [m3]	7.11E-06	1.03E-08	1.66E-07	0.00E+00	7.17E-05	0.00E+00	2.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-09	0.00E+00	1.41E-08
ILLRW [kg] or [m3]	6.21E-03	8.63E-06	1.49E-04	0.00E+00	5.99E-02	0.00E+00	2.55E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-06	0.00E+00	1.26E-05
CRU [kg]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MR [kg]	1.68E-01	0.00E+00	2.11E-01	0.00E+00	0.00E+00	0.00E+00	1.51E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MER [kg]	1.93E-01	0.00E+00	3.87E-03	0.00E+00	0.00E+00	0.00E+00	7.89E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EE [MJ, LHV]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00



Table 23: Carbon Emissions and Removals

PARAMETER	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4
BCRP [kg CO ₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BCEP [kg CO ₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BCRK [kg CO ₂]	4.07E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BCEK [kg CO ₂]	0.00E+00	0.00E+00	4.07E-01	0.00E+00	0.00E+00	0.00E+00	1.63E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BCEW [kg CO ₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CCE [kg CO ₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CCR [kg CO ₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CWNR [kg CO ₂]	4.37E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

4.3. Global Warming Potential (GWP) stage A1-A3 for additional product yarn weights and M/PACT™

Today, all Milliken carpet, resilient flooring and entryway carpet tile products are part of [M/PACT™](#), our carbon neutral program. These products offset their raw materials and manufacturing carbon footprint (cradle-to-gate) using third-party Verified Carbon Standard Credits that support renewable energy and carbon reduction technologies to help fight climate change.

Milliken Flooring can produce the reference product with a variety of different yarn weights. Table 18 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 Milliken Flooring). 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 Milliken Flooring facilities, and the Milliken Flooring production process. Embodied carbon in Table 24 is presented both including and excluding biogenic carbon.

Table 24: Embodied Carbon with Face Weights

YARN WEIGHT (OZ/YD ²)	YARN WEIGHT (G/M ²)	EMBODIED CARBON (KG/M ² CO ₂ E EXCLUDING BIOGENIC CARBON)	EMBODIED CARBON (KG/M ² CO ₂ E INCLUDING BIOGENIC CARBON)	GWP AFTER M/PACT™ (KG/M ² CO ₂)
12	407	7.99	7.50	0.00
13	441	8.05	7.56	0.00
14	475	8.11	7.62	0.00
15	509	8.17	7.68	0.00
16	542	8.23	7.74	0.00
17	576	8.29	7.80	0.00
18	610	8.36	7.86	0.00
19	644	8.42	7.92	0.00
20	678	8.48	7.98	0.00
21	712	8.54	8.04	0.00
22	746	8.60	8.10	0.00
23	780	8.66	8.16	0.00
24	814	8.72	8.22	0.00
25	848	8.78	8.28	0.00
26	882	8.84	8.34	0.00
27	915	8.90	8.40	0.00
28	949	8.96	8.46	0.00
29	983	9.02	8.53	0.00
30	1017	9.08	8.59	0.00

5. LCA Interpretation

Overall for Milliken’s Eco Recycled Nylon 6 Yarn carpet on Wellbac® Comfort backing, the majority of cradle-to-grave impacts come from the B4 lifecycle module which covers the replacement of Milliken Flooring products over the ESL of an average building. The second largest contributor to most impact categories is the B2 lifecycle module which encompasses maintenance of the product over the ESL of the building in which it is installed.

In the sourcing, extraction and manufacturing stage (A1-A3) natural gas consumption is the single largest contributor to global warming potential (GWP) impacts with electricity consumption as the second largest contributor. Within the materials used in this product, yarn and cushion contribute 27% and 22% of GWP impacts respectively. While most impact categories follow similar trends, A1-A3 eutrophication potential (EP) impacts are slightly different with manufacturing waste accounting for the majority of impact.

6. Additional Environmental Information

6.1. Environment and Health During Manufacturing

Information on Milliken’s sustainability programs, “No Carpet to Landfill” pledge and other sustainability resources can be found [Milliken Floor Covering’s sustainability website](#).

6.2. Environment and Health During Installation

All recommended personal protective equipment (PPE) should be utilized during installation, as indicated on the SDS and installation guidelines, found online.

6.3. Extraordinary Effects

Fire

The product’s fire performance can be found in the technical specifications found in Table 1.

Water

Should the product become flooded, the water should be removed through means of extraction and drying and the product should behave as originally intended. There are no environmental impacts associated with the product being flooded.

Mechanical Destruction

If the product is mechanically destroyed, it should be disposed of using standard procedures and replaced in a timely manner.

6.4. Environmental Activities and Certifications

Milliken has published third-party verified Red List Free Declare labels for all Milliken Carpet products. Additionally, Milliken Carpet products globally are Cradle to Cradle Certified® Silver. All environmental certifications can be found on [Milliken Floor Covering’s sustainability website](#). Select certifications are also presented on [mindful Materials](#). Milliken & Company is the first flooring company and one of the first 50 companies in the world to have our [net-zero targets](#) verified by Science Based Targets initiative (SBTi).

7. Supporting Documentation

The full text of the acronyms found in Section 4.1 are found in Table 25.

Table 25:Acronym Key

ACRONYM	TEXT	ACRONYM	TEXT
LCA Indicators			
ADP-elements	Abiotic depletion potential for non-fossil resources	GWP	Global warming potential
ADP-fossil	Abiotic depletion potential for fossil resources	OPD	Depletion of stratospheric ozone layer
AP	Acidification potential of soil and water	POCP	Photochemical ozone creation potential
EP	Eutrophication potential	Resources	Depletion of non-renewable fossil fuels
LCI Indicators			
PERE	Use of renewable primary energy excluding renewable primary energy resources used as raw materials	CRU	Components for reuse
PERM	Use of renewable primary energy resources used as raw materials	PENRT	Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials)
PERT	Total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials)	SM	Use of secondary materials
PENRE	Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	RSF	Use of renewable secondary fuels
PENRM	Use of non-renewable primary energy resources used as raw materials	NRSF	Use of non-renewable secondary fuels
HWD	Disposed-of-hazardous waste	FW	Net use of fresh water
NHWD	Disposed-of non-hazardous waste	MFR	Materials for recycling
HLRW	Disposed-of High-Level Radioactive waste	MET	Materials for energy recovery
ILLRW	Disposed-of Intermediate and Low Level Radioactive waste	EE	Exported energy

8. Appendix

To adhere to Sections 2.5.2 of Part A: Life Cycle Assessment Calculation Rules and Report Requirements from UL Environment, additional results for face weights of 16, 26, and 36oz/yd² are provided in the following appendix. These additional results ensure all values in Section 4 differ by no more than +/-10% from at least one of the full results tables in this EPD.



Carpet Tile - WellBAC® Comfort Backing
North America - Solution Dyed Eco Recycled Nylon 6

According to ISO 14025 and ISO 21930:2017

Milliken SDN Eco Recycled Nylon 6: 16 oz Face Weight Results

Table 26: North American Impact Assessment Results per 1 m² of installed flooring

	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4
IPCC AR5 Impacts														
GWPe 100 [kg CO ₂ eq]	8.25E+00	2.14E-01	4.02E-01	0.00E+00	3.74E+01	0.00E+00	3.59E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-02	0.00E+00	7.26E-02
GWPi 100 [kg CO ₂ eq]	7.76E+00	2.14E-01	4.28E-01	0.00E+00	3.74E+01	0.00E+00	3.41E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-02	0.00E+00	7.23E-02
TRACI 2.1 Impacts														
ODP [kg CFC-11 eq]	8.47E-07	5.47E-16	1.69E-08	0.00E+00	3.72E-12	0.00E+00	3.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-16	0.00E+00	3.46E-15
AP [kg SO ₂ eq]	9.54E-03	1.05E-03	1.01E-03	0.00E+00	5.21E-02	0.00E+00	4.84E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04	0.00E+00	3.73E-04
EP [kg N eq]	3.97E-03	9.13E-05	2.52E-04	0.00E+00	1.08E-02	0.00E+00	1.84E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05	0.00E+00	2.75E-04
Resources [MJ, LHV]	1.74E+01	3.95E-01	6.35E-01	0.00E+00	4.21E+01	0.00E+00	7.47E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.59E-02	0.00E+00	1.42E-01
POCP [kg O ₃ eq]	1.76E-01	2.43E-02	8.89E-03	0.00E+00	7.16E-01	0.00E+00	8.74E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-03	0.00E+00	6.81E-03

Table 27: Resource Use per 1 m² of installed flooring

PARAMETER	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4
RPRE [MJ, LHV]	1.73E+01	1.19E-01	8.11E-01	0.00E+00	1.46E+02	0.00E+00	7.35E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-02	0.00E+00	1.32E-01
RPRM [MJ, LHV]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RPRT [MJ, LHV]	1.73E+01	1.19E-01	8.11E-01	0.00E+00	1.46E+02	0.00E+00	7.35E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-02	0.00E+00	1.32E-01
NRPRE [MJ, LHV]	1.05E+02	2.98E+00	4.22E+00	0.00E+00	6.39E+02	0.00E+00	4.55E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.74E-01	0.00E+00	1.13E+00
NRPRM [MJ, LHV]	4.58E+01	0.00E+00	9.16E-01	0.00E+00	0.00E+00	0.00E+00	1.87E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NRPRT [MJ, LHV]	1.51E+02	2.98E+00	5.13E+00	0.00E+00	6.39E+02	0.00E+00	6.41E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.74E-01	0.00E+00	1.13E+00
SM [kg]	9.88E-01	0.00E+00	1.98E-02	0.00E+00	0.00E+00	0.00E+00	4.03E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RSF [MJ, LHV]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NRSF [MJ, LHV]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00



PARAMETER	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4
RE [MJ, LHV]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW [m3]	5.02E-02	4.08E-04	1.42E-03	0.00E+00	2.59E-01	0.00E+00	2.09E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.84E-05	0.00E+00	1.40E-04

Table 28.: Output Flows and Waste Categories per 1 m2 of installed flooring

PARAMETER	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4
HWD [kg]	3.20E-06	8.58E-12	6.39E-07	0.00E+00	-6.61E-09	0.00E+00	1.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-12	0.00E+00	2.81E-11
NHWD [kg]	2.73E-01	2.60E-04	1.83E-01	0.00E+00	2.63E-01	0.00E+00	1.53E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.99E-05	0.00E+00	3.36E+00
HLRW [kg] or [m3]	7.05E-06	1.01E-08	1.65E-07	0.00E+00	7.17E-05	0.00E+00	2.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-09	0.00E+00	1.39E-08
ILLRW [kg] or [m3]	6.16E-03	8.54E-06	1.47E-04	0.00E+00	5.99E-02	0.00E+00	2.53E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-06	0.00E+00	1.25E-05
CRU [kg]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MR [kg]	1.68E-01	0.00E+00	2.11E-01	0.00E+00	0.00E+00	0.00E+00	1.51E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MER [kg]	1.93E-01	0.00E+00	3.87E-03	0.00E+00	0.00E+00	0.00E+00	7.89E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EE [MJ, LHV]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 29: Carbon missions and removals per 1 m2 of installed flooring

PARAMETER	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4
BCRP [kg CO ₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BCEP [kg CO ₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BCRK [kg CO ₂]	4.07E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BCEK [kg CO ₂]	0.00E+00	0.00E+00	4.07E-01	0.00E+00	0.00E+00	0.00E+00	1.63E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BCEW [kg CO ₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CCE [kg CO ₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CCR [kg CO ₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CWNR [kg CO ₂]	4.37E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00



Carpet Tile - WellBAC® Comfort Backing
North America - Solution Dyed Eco Recycled Nylon 6

According to ISO 14025 and ISO 21930:2017

Milliken SDN Eco Recycled Nylon 6: 26 oz Face Weight Results

Table 30: North American Impact Assessment Results per 1 m² of installed flooring

	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4
IPCC AR5 Impacts														
GWPe 100 [kg CO ₂ eq]	8.86E+00	2.35E-01	4.15E-01	0.00E+00	3.74E+01	0.00E+00	3.85E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-02	0.00E+00	7.99E-02
GWPi 100 [kg CO ₂ eq]	8.36E+00	2.35E-01	4.40E-01	0.00E+00	3.74E+01	0.00E+00	3.67E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-02	0.00E+00	7.96E-02
TRACI 2.1 Impacts														
ODP [kg CFC-11 eq]	8.40E-07	6.00E-16	1.68E-08	0.00E+00	3.72E-12	0.00E+00	3.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-16	0.00E+00	3.81E-15
AP [kg SO ₂ eq]	1.05E-02	1.15E-03	1.03E-03	0.00E+00	5.21E-02	0.00E+00	5.28E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04	0.00E+00	4.11E-04
EP [kg N eq]	4.05E-03	1.00E-04	2.55E-04	0.00E+00	1.08E-02	0.00E+00	1.90E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05	0.00E+00	3.36E-04
Resources [MJ, LHV]	1.80E+01	4.33E-01	6.48E-01	0.00E+00	4.21E+01	0.00E+00	7.74E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.36E-02	0.00E+00	1.56E-01
POCP [kg O ₃ eq]	1.91E-01	2.66E-02	9.25E-03	0.00E+00	7.16E-01	0.00E+00	9.49E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-03	0.00E+00	7.49E-03

Table 31: Resource Use per 1 m² of installed flooring

PARAMETER	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4
RPRE [MJ, LHV]	1.99E+01	1.30E-01	8.63E-01	0.00E+00	1.46E+02	0.00E+00	8.41E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-02	0.00E+00	1.45E-01
RPRM [MJ, LHV]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RPRT [MJ, LHV]	1.99E+01	1.30E-01	8.63E-01	0.00E+00	1.46E+02	0.00E+00	8.41E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-02	0.00E+00	1.45E-01
NRPRE [MJ, LHV]	1.03E+02	3.27E+00	4.18E+00	0.00E+00	6.39E+02	0.00E+00	4.47E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.32E-01	0.00E+00	1.24E+00
NRPRM [MJ, LHV]	5.71E+01	0.00E+00	1.14E+00	0.00E+00	0.00E+00	0.00E+00	2.33E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NRPRT [MJ, LHV]	1.60E+02	3.27E+00	5.32E+00	0.00E+00	6.39E+02	0.00E+00	6.80E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.32E-01	0.00E+00	1.24E+00
SM [kg]	1.35E+00	0.00E+00	2.69E-02	0.00E+00	0.00E+00	0.00E+00	5.49E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RSF [MJ, LHV]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NRSF [MJ, LHV]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RE [MJ, LHV]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00



PARAMETER	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4
FW [m3]	5.39E-02	4.47E-04	1.49E-03	0.00E+00	2.59E-01	0.00E+00	2.24E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.63E-05	0.00E+00	1.54E-04

Table 32: Output Flows and Waste Categories per 1 m2 of installed flooring

PARAMETER	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4
HWD [kg]	3.18E-06	9.40E-12	6.38E-07	0.00E+00	-6.61E-09	0.00E+00	1.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-12	0.00E+00	3.09E-11
NHWD [kg]	3.49E-01	2.85E-04	1.91E-01	0.00E+00	2.63E-01	0.00E+00	1.70E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-05	0.00E+00	3.70E+00
HLRW [kg] or [m3]	8.04E-06	1.11E-08	1.84E-07	0.00E+00	7.17E-05	0.00E+00	3.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-09	0.00E+00	1.53E-08
ILLRW [kg] or [m3]	7.07E-03	9.36E-06	1.66E-04	0.00E+00	5.99E-02	0.00E+00	2.90E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-06	0.00E+00	1.37E-05
CRU [kg]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MR [kg]	1.67E-01	0.00E+00	2.11E-01	0.00E+00	0.00E+00	0.00E+00	1.51E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MER [kg]	1.93E-01	0.00E+00	3.87E-03	0.00E+00	0.00E+00	0.00E+00	7.89E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EE [MJ, LHV]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 33: Carbon missions and removals per 1 m2 of installed flooring

PARAMETER	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4
BCRP [kg CO ₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BCEP [kg CO ₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BCRK [kg CO ₂]	4.07E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BCEK [kg CO ₂]	0.00E+00	0.00E+00	4.07E-01	0.00E+00	0.00E+00	0.00E+00	1.63E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BCEW [kg CO ₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CCE [kg CO ₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CCR [kg CO ₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CWNR [kg CO ₂]	4.37E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00



Carpet Tile - WellBAC® Comfort Backing
North America - Solution Dyed Eco Recycled Nylon 6

According to ISO 14025 and ISO 21930:2017

Milliken SDN Eco Recycled Nylon 6: 36 oz Face Weight Results

Table 34: North American Impact Assessment Results per 1 m2 of installed flooring

	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4
IPCC AR5 Impacts														
GWPe 100 [kg CO ₂ eq]	9.46E+00	2.55E-01	4.28E-01	0.00E+00	3.74E+01	0.00E+00	4.11E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.93E-02	0.00E+00	8.72E-02
GWPi 100 [kg CO ₂ eq]	8.97E+00	2.56E-01	4.53E-01	0.00E+00	3.74E+01	0.00E+00	3.92E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.93E-02	0.00E+00	8.69E-02
TRACI 2.1 Impacts														
ODP [kg CFC-11 eq]	8.35E-07	6.53E-16	1.67E-08	0.00E+00	3.72E-12	0.00E+00	3.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-16	0.00E+00	4.16E-15
AP [kg SO ₂ eq]	1.14E-02	1.25E-03	1.05E-03	0.00E+00	5.21E-02	0.00E+00	5.73E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04	0.00E+00	4.49E-04
EP [kg N eq]	4.13E-03	1.09E-04	2.58E-04	0.00E+00	1.08E-02	0.00E+00	1.96E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05	0.00E+00	3.96E-04
Resources [MJ, LHV]	1.86E+01	4.71E-01	6.62E-01	0.00E+00	4.21E+01	0.00E+00	8.01E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.12E-02	0.00E+00	1.70E-01
POCP [kg O ₃ eq]	2.06E-01	2.90E-02	9.62E-03	0.00E+00	7.16E-01	0.00E+00	1.02E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-03	0.00E+00	8.18E-03

Table 35: Resource Use per 1 m2 of installed flooring

PARAMETER	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4
RPRE [MJ, LHV]	2.24E+01	1.42E-01	9.15E-01	0.00E+00	1.46E+02	0.00E+00	9.47E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-02	0.00E+00	1.58E-01
RPRM [MJ, LHV]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RPRT [MJ, LHV]	2.24E+01	1.42E-01	9.15E-01	0.00E+00	1.46E+02	0.00E+00	9.47E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-02	0.00E+00	1.58E-01
NRPRE [MJ, LHV]	1.00E+02	3.56E+00	4.15E+00	0.00E+00	6.39E+02	0.00E+00	4.41E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.90E-01	0.00E+00	1.35E+00
NRPRM [MJ, LHV]	6.83E+01	0.00E+00	1.37E+00	0.00E+00	0.00E+00	0.00E+00	2.79E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NRPRT [MJ, LHV]	1.69E+02	3.56E+00	5.51E+00	0.00E+00	6.39E+02	0.00E+00	7.19E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.90E-01	0.00E+00	1.35E+00
SM [kg]	1.70E+00	0.00E+00	3.40E-02	0.00E+00	0.00E+00	0.00E+00	6.93E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RSF [MJ, LHV]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NRSF [MJ, LHV]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RE [MJ, LHV]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW [m3]	5.76E-02	4.86E-04	1.57E-03	0.00E+00	2.59E-01	0.00E+00	2.40E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.42E-05	0.00E+00	1.68E-04



Table 36: Output Flows and Waste Categories per 1 m² of installed flooring

PARAMETER	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4
HWD [kg]	3.16E-06	1.02E-11	6.38E-07	0.00E+00	-6.61E-09	0.00E+00	1.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-12	0.00E+00	3.37E-11
NHWD [kg]	4.24E-01	3.10E-04	1.99E-01	0.00E+00	2.63E-01	0.00E+00	1.86E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.00E-05	0.00E+00	4.04E+00
HLRW [kg] or [m3]	9.02E-06	1.21E-08	2.04E-07	0.00E+00	7.17E-05	0.00E+00	3.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-09	0.00E+00	1.67E-08
ILLRW [kg] or [m3]	7.98E-03	1.02E-05	1.84E-04	0.00E+00	5.99E-02	0.00E+00	3.28E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-06	0.00E+00	1.50E-05
CRU [kg]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MR [kg]	1.67E-01	0.00E+00	2.11E-01	0.00E+00	0.00E+00	0.00E+00	1.51E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MER [kg]	1.93E-01	0.00E+00	3.86E-03	0.00E+00	0.00E+00	0.00E+00	7.88E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EE [MJ, LHV]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 37: Carbon missions and removals per 1 m² of installed flooring

PARAMETER	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4
BCRP [kg CO ₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BCEP [kg CO ₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BCRK [kg CO ₂]	4.07E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BCEK [kg CO ₂]	0.00E+00	0.00E+00	4.07E-01	0.00E+00	0.00E+00	0.00E+00	1.63E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BCEW [kg CO ₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CCE [kg CO ₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CCR [kg CO ₂]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CWNR [kg CO ₂]	4.37E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

9. References

Life Cycle Assessment, LCA Report for Milliken & Company. WAP Sustainability Consulting. March 2024.

Product Category Rule (PCR) for Building-Related Products and Services, Part A: Life Cycle Assessment Calculation Rules and Report Requirements UL 10010. Version 4.0, March, 2022.

Part B: Flooring EPD Requirements. UL Environment V2.0, 2018.

ISO 14044: 2006 Environmental Management - Life cycle assessment - Requirements and Guidelines.

ISO 14025:2006 Environmental labels and declarations - Type III environmental declarations - Principles and Procedures.

ISO 21930:2017 Sustainability in buildings and civil engineering works - Core rules for environmental product declarations of construction products and services.