

IN ACCORDANCE WITH ISO 14025 AND ISO 21930:2017



SmartEPD-2025-001-0536-01

# **Distinct Designs Rubber Flooring**

Date of Issue

Expiration date

Last updated

Jun 23, 2025

Jun 23, 2030

Jun 23, 2025

**FLEXCO Floors** 





# **General Information**

### **FLEXCO Floors**

1401 East 6th Street, Tuscumbia, AL 35674

**\$00-633-3360** 



Product Name: Distinct Designs Rubber Flooring

Functional Unit: 1 m2 installed flooring

Declaration Number: SmartEPD-2025-001-0536-01

Date of Issue:June 23, 2025Expiration:June 23, 2030Last updated:June 23, 2025EPD Scope:Cradle to grave

A1 - A3, A4, A5, B1 - B7, C1 - C4

Market(s) of Applicability: North America

# **General Organization Information**

Flexco Corporation, the EPD Owner, is a family-owned business operating a manufacturing facility in Tuscumbia, Alabama, where the declared product is produced. Originally founded as a tire manufacturer during World War II, Flexco has since evolved into an industry-leading provider of high-performance commercial flooring. The company has a longstanding commitment to delivering high-quality flooring products to a diverse range of customers.

The Tuscumbia facility is certified under ISO 14001 for its environmental management system, reflecting Flexco's dedication to minimizing environmental impacts and continually improving environmental performance.

As a family-owned organization, Flexco emphasizes responsible manufacturing practices, efficient resource use, and environmentally conscious product design. The company actively works to reduce waste, optimize material use, and lower emissions across its operations in support of sustainable building practices.

Further information can be found at: https://flexcofloors.com/

# Limitations, Liability, and Ownership

Environmental Product Declarations from different programs (following ISO 14025) may not be comparable. Comparison of the environmental performance of products using EPD information shall be based on the product's use and impacts at the building level. EPDs that do not cover all life cycle stages (e.g., cradle-to-grave) shall not be used to make comparisons without additional context and assumptions.

EPD comparability is only possible when all relevant life cycle stages are included and equivalent data quality, system boundaries, and assessment methods are used. Variations in results may occur due to differences in background LCI datasets, regional factors, and LCA modeling approaches or software tools.

The EPD Owner has sole ownership, liability, and responsibility for the content of this EPD.

# **Reference Standards**

Standard(s): ISO 14025 and ISO 21930:2017

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Core PCR:	UL Part A PCR for Building-Related Products and Services v.4 Date of issue: March 01, 2022
Sub-category PCR:	UL Part B: Flooring v.2 Date of issue: September 28, 2018 Valid until: July 31, 2025
Sub-category PCR review panel:	Contact Smart EPD for more information.
General Program Instructions:	Smart EPD General Program Instructions v.1.0, November 2022
Verification Information	
LCA Author/Creator:	⊕ Gia Valappil III John Beath Environmental ⊠ gia.valappil@beath.us
EPD Program Operator:	Smart EPD Minfo@smartepd.com Www.smartepd.com  585 Grove St., Ste. 145 PMB 966, Herndon, VA 20170, USA
Verification:	Independent critical review of the LCA and data, according to ISO 14044 and ISO 14071:    Mari Kirss   Mari K
	Independent external verification of EPD, according to ISO 14025 and reference PCR(s):  (mathematical mathematical mathema
Product Information	
Functional Unit:	1 m2 installed flooring
Mass:	5.21 kg
Reference Service Life:	40 Years
Product Specificity:	× Product Average
	✓ Product Specific

# **Product Description**

Flexco Distinct Designs Rubber Flooring includes a range of durable, homogeneous vulcanized rubber flooring products manufactured at Flexco Corporation's facility in Tuscumbia, Alabama, USA. These products are designed for permanent indoor installations in commercial and institutional environments that demand resilience, dimensional stability, and aesthetic flexibility.

Distinct Designs is offered in two primary formats:

- Rubber Tile: Available in multiple surface textures including Raised Disc, Raised Square, Hammered, Smooth, and Diamond, with no factory-applied finish. Tiles are offered in various nominal dimensions, including:
  - 12 in 12 in, 18 in 18 in, 24 in 24 in, 27 in 27 in, and 36 in 36 in (gauges: 0.080 in to 3/16 in)
  - $\bullet$  Plank-style dimensions such as 6 in 36 in, 12 in 36 in, and 18 in 36 in
- $\bullet \ {\sf Rubber \, Sheet: \, Offered \, in \, smooth \, texture \, with \, no \, factory \, finish, \, available \, in \, the \, following \, roll \, sizes: } \\$ 
  - 36 in or 48 in width 20 ft or 40 ft length (gauges: 0.100 in or 1/8 in)

Distinct Designs rubber flooring is available in a variety of color options, including solid colors, marbleized patterns, and solid colors with tonal flecks, enabling flexible design for high-traffic interior spaces.

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All products are manufactured without recycled content and are Red List Free, containing no substances listed on the Living Future Institute's Red List, the REACH Candidate List of Substances of Very High Concern (SVHCs), or REACH Annex XVII restricted substances. Products are recyclable through Flexco's programs and comply with applicable chemical transparency and emissions standards.

The tile products conform to ASTM F1344, and the sheet products conform to ASTM F1859, meeting requirements for rubber flooring performance, including dimensional stability, abrasion resistance, chemical resistance, and static load tolerance. Additional performance certifications include:

- NSF/ANSI 332 Level 1, FloorScore, CA Section 01350, and CHPS compliance
- Critical radiant flux (ASTM E648, Class I), low smoke density (ASTM E662), static coefficient of friction (ASTM D2047 0.50), and more

Product mass and density are determined based on the total material required to produce one square meter of installed flooring, in accordance with applicable product category rules.

Further information can be found at: https://flexcofloors.com/distinct-designs-rubber-flooring/

# **Product Specifications**

Product Classification Codes: Masterformat - 09 65 16

Masterformat - 09 65 19

EC3 - Finishes -> Flooring -> ResilientFlooring

Flooring type: Resilient

Product thickness: 3.175 mm

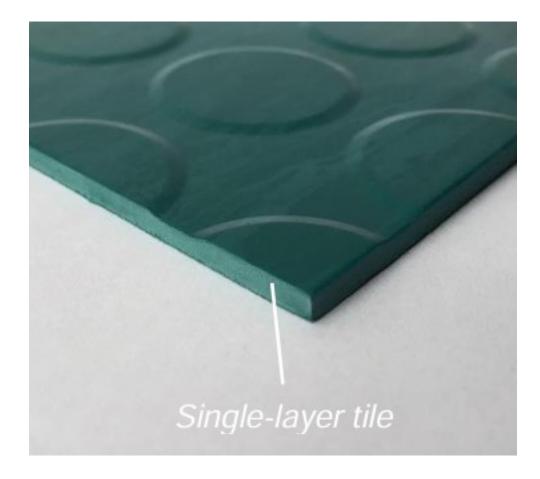
Product weight: 5210 g/m2

Product form: Rolls

# **Product Composition Diagram**











# **Material Composition**

Material/Component Category	Origin	% Mass
Filler	United States	56-66
Binder	United States	21-27
Additives	Various	10-14
Pigments	Various	1-5

Packaging Material	Origin	kg Mass
Corrugated cardboard	United States	0.202
Polyethylene wrap	United States	0.010
Pallet (wood)	United States	0.202

Biogenic Carbon Content	kg C per m2 installed flooring
Biogenic carbon content in product	None
Biogenic carbon content in accompanying packaging	0.37

Hazardous Materials

No regulated hazardous or dangerous substances are included in this product.

# **EPD Data Specificity**

Primary Data Year: 2023

× Manufacturer Average

Facility Specific

### Averaging:

EPD averaging was not conducted. This EPD represents a specific product manufactured at a single production facility.

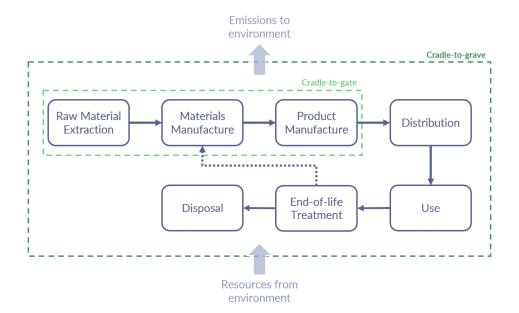
# **System Boundary**

	A1	Raw material supply	<b>~</b>
Production	A2	Transport	<b>~</b>
	А3	Manufacturing	<b>~</b>





Construction	A4	Transport to site	<b>~</b>
Construction	A5	Assembly / Install	<b>~</b>
	В1	Use	<b>~</b>
	B2	Maintenance	~
	ВЗ	Repair	~
Use	B4	Replacement	~
	B5	Refurbishment	~
	В6	Operational Energy Use	~
	B7	Operational Water Use	<b>~</b>
	C1	Deconstruction	<b>~</b>
End of Life	C2	Transport	~
End of Life	С3	Waste Processing	~
	C4	Disposal	<b>~</b>
Benefits & Loads Beyond System Boundary	D	Recycling, Reuse Recovery Potential	ND





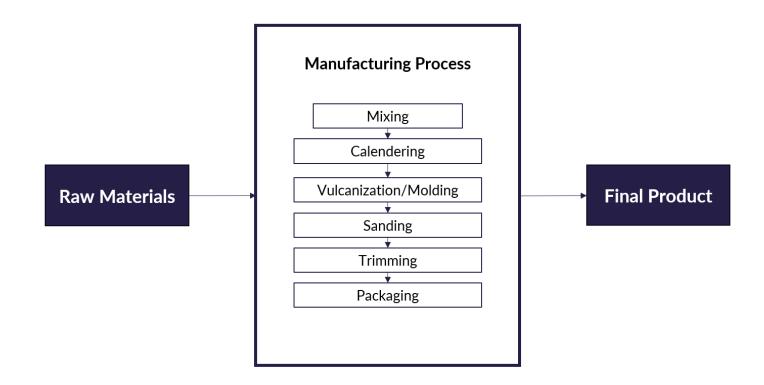


# **Plants**



Flexco Corporation 1401 East 6th Street, Tuscumbia, AL, USA

# **Product Flow Diagram**



# **Software and Database**

LCA Software:

| OpenLCA v. 2.4
| Col Foreground Database(s):
| Ecoinvent v. 3.10 | OpenLCA v. 2.4
| Cut-off approach; no allocation for in-house recycling
| Ecoinvent v. 3.10 | OpenLCA v. 2.4
| Cut-off approach; no allocation for in-house recycling | Cut-off approach; no alloca

# **Data Quality**

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Primary data were collected from RHC's manufacturing facility for the 2023 calendar year and represent actual production processes for the declared product. Background data were sourced from the ecoinvent v3.10 database using the cut-off system model. All data meet the data quality requirements of the UL PCR for Flooring and Smart EPD General Program Instructions v2.0. No significant data gaps or representativeness issues were identified; therefore, no data quality disclaimer is required for this EPD.

# **Life Cycle Module Descriptions**

#### Modules A1A3 (Raw Material Supply, Transport, and Manufacturing):

These modules include the extraction and processing of raw materials used in the product, including synthetic rubber, plasticizers, fillers, and other additives. Transport of raw materials to the manufacturing facility is included, along with manufacturing processes such as mixing, molding, and curing. Energy and water use, as well as packaging materials, are included. Manufacturing occurs in Tuscumbia, Alabama, and data are based on annual facility-level consumption values.

Modules A4 (Transport to Site and Installation): This module includes shipping of the product from manufacturing site to project site.

Module A5 (Installation): This module includes product installation. Impacts from the production, transport and disposal of waste material associated with installation are included in this phase in addition to impacts from packaging disposal.

#### Modules B1B7 (Use Stage):

- B1 (Use): No emissions or environmental impacts are associated with passive use of the product.
- B2 (Maintenance): Cleaning with detergent and water is assumed weekly over a 75-year building life.
- B3 (Repair): No repairs are anticipated.
- **B4 (Replacement):** Product is replaced at the end of its 40-year reference service life. Impacts from replacement are included based on material and energy for a second product.
- B5 (Refurbishment): No refurbishment is anticipated.
- B6B7 (Operational Energy and Water Use): No operational energy or water use is required.

### Modules C1C4 (End-of-Life):

- C1 (Deconstruction): Deconstruction is assumed to be manual with negligible environmental impact.
- C2 (Transport): Product is transported 161 km by truck to end-of-life treatment.
- C3 (Waste Processing): No additional waste processing is required prior to final disposal.
- C4 (Disposal): It was assumed that all products are landfilled at the end of their life. Impacts from disposal are modeled accordingly.

### LCA Discussion

# **Allocation Procedure**

#### **Co-product Allocation**

No co-product allocation was necessary in the system. During the final stages of manufacturing, sanding operations generate sanding dust. In some cases, this material is reused internally in the production of other product types. However, because the sanding dust has no economic value, no allocation is applied.

### **Allocation of Background Data**

Background data sourced from the ecoinvent v3.10 database are modeled using the cut-off, at classification system model. Under this method, recycled content carries no upstream environmental burdens, and the burdens of waste treatment are assigned to the original product system.

#### **End-of-Life Allocation**

At end of life, the product is treated using the same cut-off approach. Any material recovered for recycling is considered to exit the system boundary without further allocation of burdens or credits.

# **Cut-off Procedure**

No cut-off criteria were defined within the system boundary. All available energy and material flow data were included in the model. Proxy data were used when necessary to ensure comprehensive representation of life cycle impacts.

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# Renewable Electricity

Energy Attribute Certificates (EACs) such as Renewable Energy Certificates (RECs) or Power Purchase Agreements (PPAs) are included in the baseline reported results:



# **Scenarios**

# Transport to the building/construction site (A4)

A4 Module

Fuel Type: Diesel

Vehicle Type: Diesel Truck

Transport Distance: 800 km

Packaging Mass: 0.414 kg

Gross density of products transported: 1640 kg/m3

Weight of products transported: 5.21 kg

Capacity utilization volume factor: <1

Assumptions for scenario development: Transport to the construction site is modeled as 800 km via heavy-duty truck, using diesel fuel.

# Installation in to the building/construction site (A5)

A5 Module

Installation Scrap Rate Assumed: 6 %

Ancillary Materials: 0.3 kg

Product Lost per Declared/Functional Unit: 0.333 kg

Waste Materials at the Construction Site Before Waste Processina: 0.747 kg

Output Materials Resulting from On-site Waste

Processing:

n/a kg

Mass of Packaging Waste Specified by Type: 0.414 kg
Biogenic Carbon Contained in Packaging: 0.370 kg

Assumptions for scenario development: Installation is performed manually without operational energy or water use. Adhesive is applied at a rate of

 $0.20 \ kg \ per \ m^2. \ Installation \ loss \ is \ assumed \ to \ be \ 6\%. \ No \ VOC \ emissions \ or \ direct \ environmental \ emissions$ 

are reported during installation.

### Reference Service Life (B1)

B1 Module

RSL: 40 Years

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#### **Declared Product Properties:**

The declared product consists of resilient rubber flooring available in homogeneous sheet and tile forms. The average product thickness is approximately 2.54 mm, with a product mass of 5.21 kg/m². The product is ready to install and does not require additional on-site finishing. It complies with applicable ASTM standards for commercial interior flooring.

#### **Design Application Parameters:**

Product is designed for interior use in commercial and institutional applications, including education, healthcare, and public buildings. Installation should follow the manufacturer's guidelines, using appropriate adhesives and surface preparation per ASTM F1344 and ASTM F1861 standards.

#### An Assumed Quality of Work, When Installed in Accordance with The Manufacturer's Instructions:

Installation is assumed to be carried out by professionals in accordance with RHC's official installation instructions and industry best practices, ensuring proper surface preparation, adhesive use, and acclimation conditions.

#### **Outdoor Environment:**

Not applicable. Product is intended for indoor use only.

#### Indoor Environment:

Indoor use in temperature-controlled environments (60–85°F). The product is expected to be installed in commercial spaces with controlled humidity and minimal chemical exposure beyond routine maintenance cleaning.

#### Use Conditions:

Designed for moderate to high foot traffic in commercial settings. The surface is textured for slip resistance and can withstand mechanical stress such as rolling loads and static loads without permanent deformation.

#### Maintenance:

Routine maintenance includes dust mopping or vacuuming and damp mopping with a pH-neutral cleaner. No waxes or finishes are needed. Cleaning frequency depends on traffic volume but typically ranges from daily to weekly. Product does not require material replacement under normal use within its RSL.

#### Maintenance (B2)

B2 Module

Maintenance Cycle: 2080 Cycles/RSL

3900 Cycles/ESL

Net Fresh Water Consumption Specified by Water

Source and Fate:

0.0058 m3 tap water evaporated m3

Ancillary Materials Specified by Type: 0.119 kg of detergent kg

Energy Input: 0.022 kWh

Maintenance Process Information: Maintenance modeled as daily dust mopping, weekly wet mopping using detergent, and monthly spray buffing

and finishing. Cleaning frequency and material quantities based on RFCI industry average data. Maintenance

modeled over ESL of 75 years.

## Repair (B3)

B3 Module

Repair Process Information: No repair of the product is anticipated under normal conditions of use. Flooring is assumed to remain fully

functional for the duration of its reference service life without requiring repair.

Inspection Process Information: Inspections are assumed to be visual and part of regular maintenance; no separate inspection-related energy

or material inputs are modeled.

Further assumptions for scenario development:

Due to the durability and resistance to wear of the rubber tile flooring product, and based on industry standard

performance data, no repair is needed over the RSL or ESL.

# Replacement (B4)

B4 Module

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Reference Service Life: 40 Years

Replacement Cycle: 0.9 (ESL/RSL)-1

0 kWh **Energy Input:** 0 m3

Net Fresh Water Consumption Specified by Water

Source and Fate:

Direct Emissions to Ambient Air, Soil and Water: 0 kg

Further assumptions for scenario development: The product is assumed to be replaced once during the 75-year ESL based on its 40-year RSL. Environmental

impacts for B4 include the same processes as modules A1-A5 to represent the manufacture, transport, and

installation of a new product.

# Refurbishment (B5)

**B5** Module

**Refurbishment Process Description:** No refurbishment is anticipated for the product during its reference service life. Further assumptions for scenario development: The product is not refurbished during the reference or estimated service life.

# Operational Energy Use (B6) & Operational Water Use (B7)

B6 & B7 Modules

**Characteristic Performance:** 

Not applicable. The product does not consume energy or water during use.

Further assumptions for scenario development:

No operational energy or water is required for this product. These modules are declared not relevant, consistent with the LCA.

# End of Life (C1 - C4)

C1 - C4 Modules

Collection Process

**Collected Separately:** 5.21 kg

Recovery

Landfill: 5.21 kg

Disposal

Product or Material for Final Disposal: 5.21 kg

#### Assumptions for scenario development:

At end of life, 100% of the product mass (5.21 kg/m²) is assumed to be removed manually and sent to a municipal landfill. No reuse, recycling, or energy recovery is modeled. No direct emissions to air, soil, or water are associated with the disposal process. This scenario reflects a conservative baseline consistent with the UL Part B PCR and industry practice.

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# Results

# **Environmental Impact Assessment Results**

IPCC AR5 GWP 100, TRACI 2.1, CML 2016 v4.8

per 1 m2 installed flooring of product.

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

Impact Category	Method	Unit	A1A2A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4
GWP-total	IPCC AR5 GWP 100	kg CO2 eq	2.30e+1	6.95e-1	2.49e+0	0	2.49e+0	0	2.67e+1	0	0	0	0	1.17e+0	0	3.31e+0
ODP	TRACI 2.1	kg CFC 11 eq	2.06e-7	1.06e-8	6.49e-8	0	4.13e-8	0	2.71e-7	0	0	0	0	1.89e-8	0	1.87e-9
AP	TRACI 2.1	kg SO2 eq	7.33e-2	2.83e-3	8.34e-3	0	1.32e-2	0	8.08e-2	0	0	0	0	5.61e-3	0	8.69e-4
EP	TRACI 2.1	kg N eq	1.05e-1	7.84e-4	2.30e-2	0	1.12e-2	0	2.20e-1	0	0	0	0	5.93e-4	0	1.13e-1
POCP	TRACI 2.1	kg O3 eq	1.27e+0	7.87e-2	1.33e-1	0	1.13e-1	0	1.50e+0	0	0	0	0	1.86e-1	0	1.47e-2
ADP-fossil	CML 2016 v4.8	MJ	3.63e+2	9.62e+0	2.90e+1	0	2.64e+1	0	3.70e+2	0	0	0	0	1.49e+1	0	1.59e+0

#### Note:

Not all abbreviated indicators listed below may be present in the results above. The inclusion of indicators varies based on PCR requirements.

#### Abbreviations

GWP = Global Warming Potential, 100 years (may also be denoted as GWP-total, GWP-fossil (fossil fuels), GWP-biogenic (biogenic sources), GWP-luluc (land use and land use change)), ODP = Ozone Depletion Potential, AP = Acidification Potential, EP = Eutrophication Potential, FP = Smog Formation Potential, POCP = Photochemical oxidant creation potential, APP-Fossil = Abiotic depletion potential for non-fossil resources, WDP = Water deprivation potential, PM = Particular Matter Emissions, IRP = Ionizing radiation, human health, ETP-fw = Eco-toxicity (freshwater), HTP-c = Human toxicity (concarer), HTP-nc = Human toxicity (concarer), HTP-n

Comparisons cannot be made between product-specific or industry average EPDs at the design stage of a project, before a building has been specified. Comparisons may be made between product-specific or industry average EPDs at the time of product purchase when product performance and specifications have been established and serve as a functional unit for comparison. Environmental impact results shall be converted to a functional unit basis before any comparison is attempted. Any comparison of EPDs shall be subject to the requirements of ISO 21930 or EN 15804. EPDs are not comparative assertions and are either not comparable or have limited comparability when they have different system boundaries. EPDs are not comparative assertions and are either not comparable or have limited comparability when they have different system boundaries, are based on different product category rules or are missing relevant environmental impacts. Such comparison can be inaccurate, and could lead to erroneous selection of materials or products which are higher-impact, at least in some impact categories.

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# **Resource Use Indicators**

per 1 m2 installed flooring of product.

Indicator	Unit	A1A2A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	С3	C4
PERE	MJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PERM	МЈ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PERT	MJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PENRE	MJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PENRM	MJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PENRT	MJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
RPRE	MJ	2.44e+1	1.33e-1	1.51e+0	0	3.16e+0	0	2.31e+1	0	0	0	0	6.53e-2	0	5.19e-2
RPRM	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RPRT	MJ	2.44e+1	1.33e-1	1.51e+0	0	3.16e+0	0	2.31e+1	0	0	0	0	6.53e-2	0	5.19e-2
NRPRE	MJ	3.95e+2	9.76e+0	3.07e+1	0	3.20e+1	0	4.00e+2	0	0	0	0	1.50e+1	0	1.66e+0
NRPRM	МЈ	8.25e+1	0	4.95e+0	0	0	0	7.65e+1	0	0	0	0	0	0	0
NRPRT	МЈ	4.77e+2	9.76e+0	3.56e+1	0	3.20e+1	0	4.77e+2	0	0	0	0	1.50e+1	0	1.66e+0
ADP-fossil	МЈ	3.63e+2	9.62e+0	2.90e+1	0	2.64e+1	0	3.70e+2	0	0	0	0	1.49e+1	0	1.59e+0
SM	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RSF	MJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
NRSF	MJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FW	m3	8.04e-2	6.64e-4	6.56e-3	0	1.49e-2	0	7.81e-2	0	0	0	0	3.11e-4	0	3.12e-4
RE	MJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

#### Note

Not all abbreviated indicators listed below may be present in the results above. The inclusion of indicators varies based on PCR requirements.

#### Abbreviations:

RPRE or PERE = Renewable primary resources used as energy carrier (fuel), RPRM or PERM = Renewable primary resources with energy content, NRPRE or PENRE = Non-renewable primary resources used as an energy carrier (fuel), NRPRM or PENRM = Non-renewable primary resources with energy content used as material, NRPRT or PENRT = Total non-renewable primary resources with energy content, SM = Secondary materials, RSF = Renewable secondary fuels, NRSF = Non-renewable secondary fuels, RE = Recovered energy, ADPF = Abiotic depletion potential, FW = Use of net freshwater resources, VOCs = Volatile Organic Compounds.

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# **Waste and Output Flow Indicators**

per 1 m2 installed flooring of product.

Indicator	Unit	A1A2A3	A4	A5	B1	B2	В3	B4	B5	B6	B7	C1	C2	C3	C4
HWD	kg	1.10e-3	6.69e-5	5.73e-4	0	2.73e-4	0	1.67e-3	0	0	0	0	1.05e-4	0	1.04e-5
NHWD	kg	1.76e+0	5.99e-1	5.68e-1	0	2.50e-1	0	7.39e+0	0	0	0	0	7.12e-2	0	5.23e+0
RWD	kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HLRW	kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ILLRW	kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CRU	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MFR	kg	2.53e+0	0	2.76e-1	0	0	0	2.56e-1	0	0	0	0	0	0	0
MER	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MNER	kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
EEE	MJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
EET	MJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Note:

Not all abbreviated indicators listed below may be present in the results above. The inclusion of indicators varies based on PCR requirements.

#### Abbreviations

HWD = Hazardous waste disposed, NHWD = Non-hazardous waste disposed, RWD = Radioactive waste disposed, HLRW = High-level radioactive waste, ILLRW = Intermediate- and Iow-level radioactive waste, CRU = Components for re-use, MFR or MR = Materials for recycling, MER = Materials for energy recovery, MNER = Materials for incineration, no energy recovery, EE = Recovered energy exported from the product system, EET = Exported thermal energy.

### Carbon Emissions and Removals

per 1 m2 installed flooring of product.

Indicator	Unit	A1A2A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4
BCRP	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BCEP	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BCRK	kg CO2	-3.70e-1	0	0	0	0	0	-3.24e-1	0	0	0	0	0	0	0
BCEK	kg CO2	0	0	3.70e-1	0	0	0	3.24e-1	0	0	0	0	0	0	0
BCEW	kg CO2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CCE	kg CO2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CCR	kg CO2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CWNR	kg CO2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Note

Not all abbreviated indicators listed below may be present in the results above. The inclusion of indicators varies based on PCR requirements.

Abbreviations

BCRP = Biogenic Carbon Removal from Product, BCEP = Biogenic Carbon Emission from Product, BCRF = Biogenic Carbon Emission from Packaging, BCEK = Biogenic Carbon Emission from Packaging, BCEW = Biogenic Carbon Emission from Combustion of Waste from Renewable Sources Used in Production Processes, CCE = Calcination Carbon Emissions, CCR = Carbon Emissions from Land-use Change.

# **Distinct Designs Rubber Flooring** FLEXCO Floors





**FLEXCO Floors** 





# Interpretation

The results of the LCA indicate that Replacement (B4) is the largest contributor to impacts of each product assessed in this study, across all impact categories. This is due to the fact that 1.88 installations are required within the service lifetime of the building of 75 years. Raw Materials (A1) contribute to the second largest portion of impacts across most indicators. The materials of fossil origin, such as styrene butadiene rubber is the primary driver of impacts within Module A1.



# **Additional Environmental Information**

**Environmental Programs:** 

This product is eligible for recycling through the Flexco Impact program, which enables recovery of used flooring materials for responsible end-of-life management. Waste Management:

While the LCA models landfill as the end-of-life treatment per PCR defaults, Flexco encourages participation in the Flexco IMPACT program where available. This take-back program diverts flooring waste from landfill and offers a more sustainable end-of-life option, though it was not included in the LCA modeling for this EPD. Materials of Concern:

This product contains synthetic polymers, mineral fillers, additives, and pigments. It does not contain recycled content and is free of substances listed on the Living Building Challenge (LBC) Red List and California Proposition 65 at the time of publication.

Use Instructions:

The product is intended for indoor use only and is not suitable for installation in exterior applications. It is not recommended for use in facilities with heavy blade traffic (e.g., ice rinks) due to potential for visible wear. VOC emissions are compliant with CA Section 01350, and certification has been achieved. Environmental Performance Data:

The product is certified under NSF/ANSI 332. It meets the requirements of the Collaborative for High Performance Schools (CHPS) and contributes to LEED v4/v4.1 credits. A Health Product Declaration (HPD) is publicly available.

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

Certification
FloorScore, demonstrating CA Section 01350 VOC compliance
Health Product Declaration
Flexco IMPACT Program
NSF/ANSI 332 Level 1 Certification
ISO 14001

### **Further Information**

### **Additional Multipliers**

**FLEXCO Floors** 





Product Identifier	Profile Design	Weight (kg/m2)	Multiplier
Radial Designs	Low Profile (RLT)	4.99	0.958
Radial Designs	High Profile Radial (RBT)	4.99	0.958
Radial Designs	Radial II Low Profile (RGT)	4.99	0.958
Radial Designs	Radial III Low Profile (RCT)	4.99	0.958
Radial Designs	Weave (WV)	4.99	0.958
Radial Designs	Square Low Profile (SQ)	4.99	0.958
Radial Designs	Hammered 0.080" (SE)	3.66	0.703
Radial Designs	Hammered 1/8" (SE)	4.99	0.958
Smooth Rubber Tile	Smooth 1/8"	5.64	1.083
Smooth Sheet Rubber Rolls	Smooth 0.100"	4.61	0.886
Smooth Sheet Rubber Rolls	Smooth 1/8"	5.86	1.126

Since this product is available in a variety of configurations and weights, the table below provides multiplication factors to facilitate calculation of environmental impacts for other variants. These multipliers were derived based on deviations from the average product weight for this product, as presented in Section 4 of this EPD. To estimate impacts for alternate configurations, users may multiply the values in the results tables by the appropriate factor from the table above.

For Module B2, the results are provided per m2 as they do not vary depending on the weight or thickness of the product and depend only on the area of product applied, therefore B2 results can be used as is.

# References

- ISO 14025:2006. Environmental labels and declarations Type III environmental declarations Principles and procedures. International Organization for Standardization (ISO), Geneva, Switzerland.
- ISO 21930:2017. Sustainability in buildings and civil engineering works Core rules for environmental product declarations of construction products and services. International Organization for Standardization (ISO), Geneva, Switzerland.
- ISO 14044:2006. Environmental management Life cycle assessment Requirements and guidelines. International Organization for Standardization (ISO), Geneva, Switzerland.
- UL Environment. (2022). Part A: Building-Related Products and Services. Version 4.0.
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- SmartEPD. (2025). General Program Instructions for Environmental Product Declarations. Version 2.0, March 11, 2025.
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