

# Environmental Product Declaration



According to  
UL 10010-7

## Tarkett iD Latitude Vinyl Flooring (LVT)

Tarkett's asthma and allergy friendly® CERTIFIED iD Latitude LVT offers lasting performance and practical affordability with a wide range of design options, including wood, stone, and abstract visuals.

---

**Embodied Carbon – 0.120” (3 mm) thickness, cradle to gate (A1-A3)**



16.05 kg CO2 eq. (per 1 m<sup>2</sup> of tile flooring)

---



For years, Tarkett has raised the sustainability standards of the flooring industry. It purposefully designs floors with total transparency to create healthier, safer spaces for both people and planet. When Tarkett floors reach their end of life, the company's ReStart® program makes it possible for them to be recycled, repurposed, or diverted from landfill. Tarkett's near-term science-based carbon emissions reduction targets have been validated by the Science Based Targets initiative (SBTi) and are fully aligned with the Paris Climate Agreement objective to limit global warming by 1.5 degrees Celsius. For more information, visit <https://contract.tarkett.com/proofineverystep>.

# Environmental Product Declaration

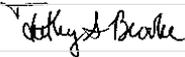
Tarkett iD Latitude  
Luxury Vinyl Tile (LVT)



EPD Program Operator Name, Logo, Address, and Website



ASTM International – WWW.ASTM.ORG  
100 Barr Harbor Dr., West Conshohocken, PA

General Program Instructions and Version Number	ASTM General Program Instructions. V.8.0, April 29, 2020
Manufacturer Name and Address	Tarkett, 430 Co Rd 30, Florence, AL 35634
Declaration Number	EPD 581
Declared Product & Functional Unit or Declared Unit	1 m <sup>2</sup> of installed floor covering with an RSL of 30 years over 75 years of building service life
Reference PCR and Version Number	Part B: Flooring EPD Requirements UL 10010-7 v2.0 – 2018 and UL Part A
Description of product application/use	Floor covering
Market(s) of applicability	Commercial
Product RSL Description (if Appl.)	30 years
Date of Issue	09/27/2023
Period of Validity	5 years
EPD Type	Product specific
EPD Scope	Cradle to grave (A1-C4)
Year(s) of reported primary data	2020
LCA Software & Version Number	SimaPro v9.4.0.1
LCI Database(s) & Version Number	Ecoinvent v3.8 compiled in November 2021 DATASMART LCI, Long Trail Sustainability, version 2021.1
LCIA Methodology & Version Number	TRACI 2.1
Part A PCR review was conducted by:	Lindita Bushi, PhD, Chair, Athena Sustainable Materials Institute Hugues Imbeault-Tétreault - Groupe AGÉCO Jack Geibig, Ecoform
Part B PCR review was conducted by:	Jack Geibig, Chair, Ecoform Thomas Gloria, PhD, Industrial Ecology Consultants Thaddeus Owen
This declaration was independently verified in accordance with ISO 21930:2017, UL Part A, and ISO 14025: 2006. <input type="checkbox"/> INTERNAL <input checked="" type="checkbox"/> EXTERNAL	 Timothy S. Brooke ASTM International
This life cycle assessment was conducted in accordance with ISO 14044 and the reference PCR by:	Cher Xue TrueNorth Collective
This life cycle assessment was independently verified in accordance with ISO 14044 and the reference PCR by:	 Lindita Bushi, PhD Athena Sustainable Materials Institute

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

Comparison of the environmental performance of Flooring Products using EPD information shall be based on the product's use and impacts at the building level, and therefore EPDs may not be used for comparability purposes when not considering the building energy use phase as instructed under this PCR.

Full conformance with the PCR for Flooring 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.

# Environmental Product Declaration

## Tarkett iD Latitude

Luxury Vinyl Tile (LVT)



---

### Product Definition and Information

---

#### 1.1. Description of Company/Organization

With a history of more than 140 years, Tarkett is a worldwide leader in innovative and sustainable flooring and sports surface solutions, generating net sales of € 3.4 billion in 2022. Tarkett has 12,000 employees, 25 R&D centers, 8 recycling centers and 34 production sites. Tarkett designs and manufactures solutions for hospitals, schools, housing, hotels, offices, stores and sports fields, serving customers in over 100 countries. To build “The Way to Better Floors,” Tarkett is committed to circular economy and sustainability, in line with its Tarkett Human-Conscious Design® approach. Tarkett is listed on the Euronext regulated market (compartment B, ISIN: FR0004188670, ticker: TKTT). [www.tarkett-group.com](http://www.tarkett-group.com)

#### 1.2. Product Description

##### Product Identification

iD Latitude LVT brings the full trifecta: great design, lasting performance and practical affordability. Our latest updates to the collection offer forward-looking wood, stone and abstract patterns that support your vision for every space. With quick installation, immediate occupancy and top-of-class Techtonic® protection, these 72 hard-working designs are ready to support every step of your next project.

##### Product Specification

iD Latitude LVT products available as tiles with a thickness of 0.120" (3mm). The products are available in these sizes: 6 in. x 48 in. (15.2 cm x 121.9 cm), 18 in. x 18 in. (45.7 cm x 45.7 cm), 12 in. x 24 in. (30.5 cm x 61 cm), and 6 in. x 36 in. (15.2 cm x 91.4 cm). The thickness is 0.120" (3 mm). The product has a 20 mil wear layer, has a square edge treatment, and is finished with Tarkett's Techtonic® top coat.



##### Product Collections

#### **iD Latitude | Woods:**

Nothing adds visual warmth to a space like the look of natural wood grain. This broad selection of wood visuals gives you complete design flexibility, from cool to warm tones, light to dark looks, and a variety of grain patterns.

#### **iD Latitude | Stones:**

Featuring a variety of linear, concrete and terrazzo looks, iD Latitude Stones blend contemporary design with the timeless aesthetic of natural materials.

#### **iD Latitude | Abstracts:**

This broad palette of artful designs includes a variety of solutions for every segment—from soft, soothing neutrals to bold, saturated hues. You can mix and match iD Latitude Abstracts with wood and stone looks to add visual interest or helpful wayfinding.

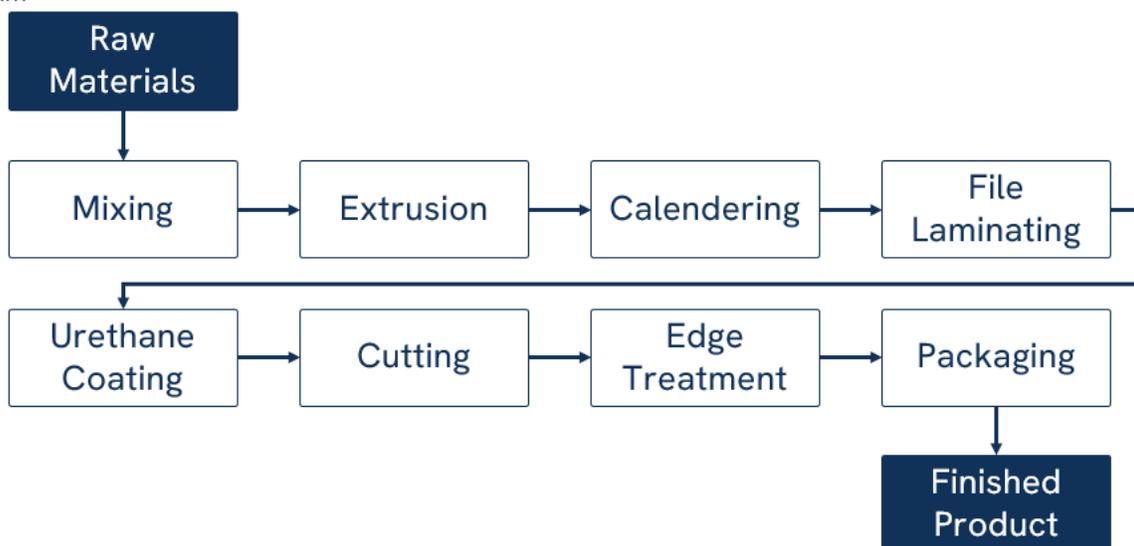
# Environmental Product Declaration

Tarkett iD Latitude

Luxury Vinyl Tile (LVT)



Flow Diagram



Product Average

The product average of 11.14 LBS per square meter of product weight is identical across all standard sizes.

### 1.3. Application

Floor covering.

### 1.4. Properties of Declared Product as Delivered

iD Latitude products are available as tiles with a thickness of 0.120" (3mm). The products are available in four sizes 6 in. x 48 in. (15.2 cm x 121.9 cm), 18 in. x 18 in. (45.7 cm x 45.7 cm), 12 in. x 24 in. (30.5 cm x 61 cm), and 6 in. x 36 inc (15.2 cm x 91.4 cm).

### 1.5. Material Composition

46% closed loop recycled material, 27% PVC, and 27% rest of materials. Tarkett iD Latitude is constructed on a unique composite structure built with homogeneous polymeric calendared layers with a 20 mil PVC wear layer. Techtonic polyurethane coating technology is super tough, resisting scratching, abrasions, scuffing and staining to ensure floor look nicer, longer. No substances required to be reported as hazardous are associated with the production of this product.

### 1.6. Manufacturing

LVT tile is produced in several stages beginning with the mixing of raw materials. After thorough mixing, the resulting compound is extruded, calendared, file laminated, urethane coated, cut, and edge treated. The resulting product is stacked and packaged. Electricity, natural gas, water and propane for manufacturing were collected and allocated to the product. The upstream burdens for energy production take into consideration the geographic location of manufacturing.

### 1.7. Packaging

Carton box with 50% recycled content.

# Environmental Product Declaration

Tarkett iD Latitude  
Luxury Vinyl Tile (LVT)



---

## 1.8. Transportation

Finished products are assumed to be shipped an average of 751 km by truck and 118 km by ship to the customer.

## 1.9. Product Installation

LVT tile installation primarily involves hand tools for measuring and cutting floor materials. Approximately 4.5% of the total material is assumed to be trimmed and discarded as waste. While some of this waste could be reused, this scrap is modeled as being disposed of in a landfill. Hand trowels are used to spread appropriate adhesive (0.25 kg/sqm) which adheres flooring to the subfloor.

## 1.10. Health Safety and Environmental Aspects

iD Latitude is certified through the FloorScore® Indoor Air Quality program and complies with the VOC emissions requirements of the California Department of Public Health (CDPH) Standard Method for the Testing and Evaluation of the Volatile Organic Chemical Emissions for Indoor Sources Using Environmental Chambers, v1.1, Feb 2010 (also known as the California 01350 Specification). Tarkett's recommended installation instructions should be followed and the appropriate adhesive Material Safety Data Sheets (MSDSs) referenced. iD Latitude is also CERTIFIED asthma & allergy friendly® by Allergy Standards Ltd., ensuring they won't contribute to asthma and allergy triggers.

## 1.11. Product Use

The level of maintenance is dependent on the actual use and desired appearance of the floor. For the purpose of this study, average maintenance is presented on typical installations. This study accounts for three cleaning processes within the use phase: daily dust mop, weekly damp mop, and monthly spray buffing.

## 1.12. Reference Service Life and Estimated Building Service Life

The service life of LVT flooring will vary depending on the amount of floor traffic and the type and frequency of maintenance. LVT tile and plank flooring is assumed to have a reference service life of 30 years with installation losses of 4.5%. Product use and replacement over a 75-year building ESL is calculated as a total of 2.5 m<sup>2</sup> of flooring needed over the building's lifetime. To compensate for installation losses, an additional 0.118 m<sup>2</sup> of product is needed.

## 1.13. Disposal

Based on the best available information, a small amount of waste is incinerated. However, for the purpose of this study, 100% of installed product removal waste is disposed of in a landfill. Dump truck transportation to the landfill is estimated with a distance of 32 miles (52 km).

## 1.14. Reuse, Recycling, and Energy Recovery

No landfill gas is produced from product waste.

## Life Cycle Assessment Background Information

---

### 2.1. Functional or Declared Unit

For LVT tile flooring products, the declared unit is 1 m<sup>2</sup> of installed floor covering with a reference service life (RSL) of 30 years over 75 years of building estimated service life (ESL). All flows to and from the environment within the system boundary are normalized to

# Environmental Product Declaration

## Tarkett iD Latitude

Luxury Vinyl Tile (LVT)



one pound of product output, which is then multiplied by the actual product weight per square meter. The reference flow in LBS/m<sup>2</sup> per thickness is identical across all standard sizes mentioned above.

Table 1 Functional Unit

Thickness	Product Weight (LBS/tile) of 18 in. x 18 in.	Calculated Product Weight per functional unit (LBS / m <sup>2</sup> )	Calculated Product Weight per functional unit (kg / m <sup>2</sup> )
0.120 inch (3mm)	2.33	11.14	5.05

## 2.2. System Boundary

The study uses a cradle-to-grave system boundary. No impacts from the product's use (B1, B3, B5-B7) or from demolition (C1) or waste processing (C3) are included. The use stage modules B1, B3, B5, B6, and B7 are declared as having zero impact as there are no direct emissions from resilient flooring once it is installed nor is any repair or refurbishment requirements expected. The other use stage modules account for cleaning the floor (i.e., maintenance, which consists of dust mopping, damp mopping, and spray buffing), and replacing the floor to match building service life. The life cycle phases considered within system boundaries include:

- Extraction and processing of raw materials (A1)
- Inbound transportation (A2)
- Manufacturing (A3)
- Distribution (A4)
- Installation (A5)
- Maintenance (B2)
- Replacement (B4)
- Transport to disposal (C2)
- Disposal of LVT tile (C4)

## 2.3. Limitations

The findings in the study are limited by the inherent uncertainty of creating a representative model through LCA, but efforts were made to reduce uncertainty by examining 100% of the materials that make up the product. With the current availability of data, it is nearly impossible to follow the entire supply chain associated with the product in a company-specific way. Many of the processes within the supply chains are modeled using average industry data with varying amounts of specificity. This makes it difficult to accurately determine how well the unit process data represents the actual factors in the products' life cycle.

## 2.4. Cut-off Criteria

While the PCR allows for any mass flow to be omitted if it is less than 1%, with cumulative flows not exceeding 5%, this study includes 100% of the material flows and thus follows the cut-off criteria. No known flows are deliberately excluded from this EPD.

## 2.5. Data Sources

The quality of the results of an LCA study is directly dependent on the quality of input data used in the inventory for modeling. In this study, data was collected from multiple sources and primary data was used when available. Data on material composition and manufacturing are primary data from Tarkett and are based on year 2020. All upstream and downstream activities are included using

# Environmental Product Declaration

Tarkett iD Latitude  
Luxury Vinyl Tile (LVT)



a combination of primary and secondary data. While the majority of inventory data are sourced from primary resources, representative proxies are used to close gaps in the absence of primary data.

## 2.6. Data Quality

Primary and secondary data are represented using ecoinvent v3.8 and DATASMART LCI Package (Long Trail Sustainability, 2020)). Ecoinvent v3.8 is used as the main database for background data. This version is published in 2021. Ecoinvent is widely used in research and industry to support life cycle assessment practices. Each version of this database goes through thorough review process and documentation of precision and completeness is available by the provider.

## 2.7. Period under Review

Primary data collected from Tarkett are based on averaged 2020 annual data for production details (energy, water, and emissions). Raw material inputs were based on standard product weight and formulation.

## 2.8. Allocation

Given that raw materials are key contributors to environmental performance, mass-based allocation of plant utility consumption, resource use and waste generation was applied for facilities that produced more than one flooring product. Raw material inputs are allocated to 1 pound of product output based on formula.

## Life Cycle Assessment Results

The system boundaries are split into modules that include provision of all relevant materials, products, and energy. The modules included in the study are the extraction and processing of raw materials (A1), inbound transportation (A2), manufacturing (A3), transport from gate to site (A4), assembly/installation (A5), maintenance (B2), replacement (B4), transport to disposal (C2), and disposal of LVT tile (C4). The maintenance (B2) and replacement (B4) modules account for cleaning the floor (i.e., maintenance, which consists of dust mopping, damp mopping, and spray buffing), and replacing the floor to match building service life. The use stage modules B1, B3, B5, B6, and B7 are declared as having zero impact as there are no direct emissions from resilient flooring once it is installed nor is any repair or refurbishment requirements expected. No impacts from the product's demolition (C1) or waste processing (C3) are included. The optional module D, for reporting benefits and loads beyond the system boundary has also been excluded. A summary of the system boundaries by module is provided below in Table 2. Modules with an 'X' are included in the study and those with an 'MND' are Module Not Declared.

**Table 2. Description of the system boundary modules**

	Product Stage			Construct- ion 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	D
	Raw Material Supply	Transport	Manufacturing	Transport From Gate to Site	Assembly/Install	Use	Maintenance	Repair	Replacement	Refurbishment	Building Operational Energy Use During Product Use	Building Operational Water Use During Product Use	Deconstruction	Transport	Waite Processing	Disposal	Reuse, Recovery, Recycling Potential
EPD	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	MND

# Environmental Product Declaration

Tarkett iD Latitude  
Luxury Vinyl Tile (LVT)



## 3.1 Life Cycle Impact Assessment Results

Table 3. North American Impact Assessment Results for iD Latitude LVT Tile (1 m<sup>2</sup>)

TRACI v2.1	A1	A2	A3	A4	A5	B2	B4	C2	C4
Global Warming Potential (GWP 100) kg CO2 eq	5.70E+00	3.98E-01	9.95E+00	6.97E-01	1.18E+00	7.68E+00	2.72E+01	1.40E-01	5.21E-02
Ozone Depletion Potential (ODP) kg CFC-11 eq	2.13E-06	9.40E-08	5.89E-07	1.65E-07	1.98E-07	1.68E-07	4.84E-06	3.32E-08	1.71E-08
Smog Formation Potential (SFP) kg O3 eq	2.59E-01	7.39E-02	3.64E-01	1.18E-01	5.99E-02	3.71E-01	1.36E+00	2.33E-02	9.72E-03
Acidification (AP) kg SO2 eq	2.08E-02	2.93E-03	3.46E-02	4.44E-03	4.53E-03	2.99E-02	1.03E-01	8.63E-04	3.99E-04
Eutrophication Potential (EP) kg N eq	1.26E-02	4.84E-04	1.74E-02	8.39E-04	2.68E-03	1.74E-02	5.16E-02	1.68E-04	1.68E-04
Abiotic Resource Depletion Potential of Non-renewable energy resources (ADP <sub>fossil</sub> ) MJ, LHV	1.27E+01	8.40E-01	1.50E+01	1.48E+00	2.29E+00	2.29E+01	4.91E+01	2.96E-01	1.73E-01

## 3.2 Life Cycle Inventory Results

Table 4. Resource Use for iD Latitude LVT Tile (1 m<sup>2</sup>)

Parameter	A1	A2	A3	A4	A5	B2	B4	C2	C4
Renewable primary energy as energy carrier (RPRE) MJ, LHV	4.82E+00	6.67E-02	1.10E+01	1.20E-01	1.07E+00	6.64E+00	2.57E+01	2.40E-02	2.12E-02
Renewable primary energy as material utilization (RPRM) MJ, LHV	x	x	x	x	x	x	x	x	x
Total use of renewable primary energy resources (RPRT) MJ	4.82E+00	6.67E-02	1.10E+01	1.20E-01	1.07E+00	6.64E+00	2.57E+01	2.40E-02	2.12E-02
Non-renewable primary energy as energy carrier (NRPRE) MJ	4.11E+01	5.94E+00	2.16E+02	1.05E+01	2.03E+01	1.06E+02	4.46E+02	2.10E+00	1.25E+00
Non-renewable primary energy as material utilization (NRPRM) MJ	6.15E+01	x	x	x	2.77E+00	8.06E+01	9.63E+01	x	x
Total use of non-renewable primary energy resources (NRPRM) MJ	1.03E+02	5.94E+00	2.16E+02	1.05E+01	2.30E+01	1.86E+02	5.42E+02	2.10E+00	1.25E+00
Use of secondary materials (SM) kg	2.98E+00	2.98E+00	x	x	2.68E-01	x	9.35E+00	x	x
Renewable secondary fuels (RSF) MJ	x	x	x	x	x	x	x	x	x
Use of non-renewable secondary fuels (NRSF) MJ	x	x	x	x	x	x	x	x	x

# Environmental Product Declaration

Tarkett iD Latitude  
Luxury Vinyl Tile (LVT)



Recovered energy (RE) MJ	x	x	x	x	x	x	x	x	x
Use of net fresh water (FW) m <sup>3</sup>	6.71E-02	6.44E-04	1.72E-01	1.16E-03	1.65E-02	3.06E-01	3.89E-01	2.33E-04	1.32E-03

**Table 5. Output Flows and Waste Categories for iD Latitude LVT Tile (1 m<sup>2</sup>)**

Parameter	A1	A2	A3	A4	A5	B2	B4	C2	C4
Hazardous waste disposed (HWD) kg	x	x	x	x	x	x	x	x	x
Non-hazardous waste disposed (NHWD) kg	x	x	x	x	2.27E-01	x	3.41E-01	x	x
High Level Radioactive waste disposed (HRWD) kg	x	x	x	x	x	x	x	x	x
Low and Intermediate Level Radioactive waste disposed (LRWD) kg	x	x	x	x	x	x	x	x	x
Components for re-use (CRU) kg	x	x	x	x	x	x	x	x	x
Materials for recycling (MR) kg	x	x	x	x	x	x	x	x	x
Materials for energy recovery (MER) kg	x	x	x	x	x	x	x	x	x
Exported electrical energy (EE, electrical) MJ, LHV	x	x	x	x	x	x	x	x	x
Exported thermal energy (EE, thermal) MJ, LHV	x	x	x	x	x	x	x	x	x

**Table 6. Carbon Emissions and Removals for iD Latitude LVT Tile (1 m<sup>2</sup>)**

Parameter	A1	A2	A3	A4	A5	B2	B4	C2	C4
Biogenic Carbon Removal from Product (BCRP) kg CO <sub>2</sub>	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Biogenic Carbon Emission from Product (BCEP) kg CO <sub>2</sub>	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Biogenic Carbon Removal from Packaging (BCRK) kg CO <sub>2</sub>	0.00E+00	0.00E+00	-3.88E-01	0.00E+00	-1.74E-02	0.00E+00	-6.08E-01	0.00E+00	0.00E+00
Biogenic Carbon Emission from Packaging (BCEK) kg CO <sub>2</sub>	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-01	0.00E+00	1.52E-01	0.00E+00	0.00E+00

# Environmental Product Declaration

Tarkett iD Latitude

Luxury Vinyl Tile (LVT)



---

## LCA Interpretation

Based on the results and study assumptions, methods and data, the cradle-to-grave impacts distribution by life cycle stages are dominated by B4, replacement during use stage from 46% to 59%, followed by A1, raw material (11% to 27%) and B2, maintenance (2% to 24%).

---

## Additional Information

### 5.1 Accreditations

- ISO 14001 Environmental Management System
- ISO 9001 Quality Management System
- ISO 45001 Occupational Health and Safety System

### 5.2 Applicable Product Standards

- ASTM F1700, Revision 20, February 4, 2020 - Standard Specification for Solid Vinyl Floor Tile
- CSI MasterFormat Code: 09 65 19 Resilient Tile Flooring

# Environmental Product Declaration

Tarkett iD Latitude

Luxury Vinyl Tile (LVT)



## References

- ACLCA. (2019). ACLCA Guidance to Calculating Non-LCIA Inventory Metrics in Accordance with ISO 21930:2017. ACLCA.
- Bare, J., Gloria, T., & Norris, G. (2006). Development of the Method and U.S. Normalization Database for Life Cycle Impact Assessment and Sustainability Metrics. *Environmental Science & Technology*.
- Bare, J., Norris, G., Pennington, D., & McKone, T. (2003). TRACI: The Tool for the Reduction and Assessment of Chemical and Other Environmental Impacts. *Journal of Industrial Ecology*.
- Frischknecht, R., Jungbluth, N., Althaus, H., Doka, G., Dones, R., Hischier, R., . . . Nemecek, T. (2007). Implementation of Life Cycle Impact Assessment Methods: Data v2.0. Dübendorf, Switzerland: ecoinvent report No. 3, Swiss centre for Life Cycle Inventories.
- IPCC, I. P. (2013). IPCC Fifth Assessment report. The Physical Science Basis. Retrieved from <http://www.ipcc.ch/report/ar5/wg1/>.
- ISO 14025. (2006). ISO 14025:2006: Environmental labels and declarations — Type III environmental declarations — Principles and procedures. International Organization for Standardization.
- ISO 14040. (2006). ISO14040:2006/Amd 1:2020 -- Environmental management -- Life cycle assessment -- Principles and framework. International Organization for Standardization.
- ISO 14044. (2006). ISO 14044:2006/Amd 1:2017/Amd 2:2020 -- Environmental management - Life cycle assessment - Requirements and guidelines. International organization for Standardization (ISO)
- ISO 21930. (2017). Sustainability in buildings and civil engineering works — Core rules for environmental product declarations of construction products and services.
- LTS. (2020). DATASMART LCI Package. Retrieved from Long Trail Sustainability: <https://ltsexperts.com/services/software/datasmart-life-cycle-inventory/>
- UL. (2018). Product Category Rules for Building Related Products and Services, Part A: Life Cycle Assessment Calculation Rules and Report Requirements UL 10010, v3.2. UL.
- UL. (2018). Product Category Rule (PCR) for Building-Related Products and Services Part B: Flooring EPD Requirements, UL Environment, (UL 10010-7, Second Edition), 2018.
- US EPA, U. S. (2018). Facts and Figures about Materials, Waste and Recycling. Retrieved from <https://www.epa.gov/facts-and-figures-about-materials-waste-and-recycling/plastics-material-specific-data>
- Weidema B P, B. C. (2013). Overview and methodology. Data quality guideline for the ecoinvent database version 3. St. Gallen: The ecoinvent Centre.
- Wernet, G. B.-R. (2016). The ecoinvent database version 3 (part I): overview and methodology. *The International Journal of Life Cycle Assessment*, 1218–1230.

### Tarkett

30000 Aurora Rd

Solon, OH

44139 United States

**Phone** : 1-800-899-8916

[www.tarkett.com](http://www.tarkett.com)

### TrueNorth Collective

4537 Winnequah Rd,

Monona, Wisconsin

53716 United States

**Phone** : 1 608-616-5024

[info@truenorthcollective.net](mailto:info@truenorthcollective.net)

[www.truenorthcollective.net](http://www.truenorthcollective.net)

