





Declaration Owner

TAJ Flooring, Inc.
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Product

TAJ Luxury Vinyl Tile (LVT) flooring TAJ Modular Acoustic LVT Flooring (UNSPSC Class Code 30161707)

Functional Unit

The functional unit is one square meter of flooring over a 75year period

EPD Number and Period of Validity

SCS-EPD-09290 EPD Valid August 9, 2023 through August 8, 2028

Product Category Rule

PCR Guidance for Building-Related Products and Services Part A: Life Cycle Assessment Calculation Rules and Report Requirements, Version 3.2. UL Environment. December 2018.

PCR Guidance for Building-Related Products and Services Part B: Flooring EPD Requirements. Version 2.0 UL Environment. September 2018.

Program Operator

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Address:	740 Church Rd, Elgin, IL 60123
Declaration Number:	SCS-EPD-09290
Declaration Validity Period:	EPD Valid August 9, 2023 through August 8, 2028
Program Operator:	SCS Global Services
Declaration URL Link:	https://www.scsglobalservices.com/certified-green-products-guide
LCA Practitioner:	Gerard Mansell, Ph.D., SCS Global Services
LCA Software and LCI database:	OpenLCA v1.10 software and the Ecoinvent v3.8 database
Product RSL:	15 years
Markets of Applicability:	Global
EPD Type:	Product-Specific
EPD Scope:	Cradle-to-Grave
LCIA Method and Version:	CML-IA and TRACI 2.1
Independent critical review of the LCA and data, according to ISO 14044 and ISO 14071	□ internal 🖾 external
LCA Reviewer:	Thomas Gloria, Ph.D., Industrial Ecology Consultants
Part A Product Category Rule:	PCR Guidance for Building-Related Products and Services Part A: Life Cycle Assessment Calculation Rules and Report Requirements. Version 3.2. UL Environment. December 2018
Part A PCR Review conducted by:	Lindita Bushi, PhD (Chair); Hugues Imbeault-Tétreault, ing., M.Sc.A.; Jack Geibig
Part B	PCR Guidance for Building-Related Products and Services Part B: Flooring EPD
Product Category Rule:	Requirements. Version 2.0/ UL Environment. September 2018.
Part B PCR Review conducted by:	Jack Geibig (chair), Ecoform; Thomas Gloria, Industrial Ecology Consultants; Thaddeus Owen
Independent verification of the declaration and data, according to ISO 14025 and the PCR	□ internal ⊠ external
EPD Verifier:	Thomas Gloria, Ph.D., Industrial Icology Consultants 1. TAJ Flooring, Inc
Declaration Contents:	1. TAJ Flooring, Inc. 2 2. Product 2 3. LCA: Calculation Rules 6 4. LCA: Scenarios and Additional Technical Information 12 5. LCA: Results 14 6. LCA: Interpretation 18 7. References 20

Disclaimers: This EPD conforms to ISO 14025, 14040, 14044, and 21930.

Scope of Results Reported: The PCR requirements limit the scope of the LCA metrics such that the results exclude environmental and social performance benchmarks and thresholds, and exclude impacts from the depletion of natural resources, land use ecological impacts, ocean impacts related to greenhouse gas emissions, risks from hazardous wastes and impacts linked to hazardous chemical emissions.

Accuracy of Results: Due to PCR constraints, this EPD provides estimations of potential impacts that are inherently limited in terms of accuracy.

Comparability: The PCR this EPD was based on was not written to support comparative assertions. EPDs based on different PCRs, or different calculation models, may not be comparable. When attempting to compare EPDs or life cycle impacts of products from different companies, the user should be aware of the uncertainty in the final results, due to and not limited to, the practitioner's assumptions, the source of the data used in the study, and the specifics of the product modeled.

In accordance with ISO 21930:2017, EPDs are comparable only if they comply with the core PCR, use the same sub-category PCR where applicable, include all relevant information modules and are based on equivalent scenarios with respect to the context of construction works.

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1. TAJ Flooring, Inc.

TAJ Flooring is a family owned and operated resilient flooring company that offers floors that are as functional as they are beautiful. TAJ Flooring works to incorporate the latest performance technologies with current environmental standards in premium design options and unparalleled customer service to meet their customer's project requirements.

2. Product

2.1 PRODUCT DESCRIPTION

TAJ Luxury Vinyl Tile (LVT)

TAJ Luxury Vinyl Tile is a range of versatile luxury vinyl tiles and planks that suit a wide range of applications and satisfies diverse client aesthetic preferences for flooring in interior spaces through an extensive offering of designs, colors and sizes.

TAJ Modular Acoustic LVT Flooring

TAJ Modular Acoustic LVT Flooring is a heterogeneous fiberglass reinforced modular flooring product engineered to contribute to quiet interior environments and limit sound transmission. The modular acoustic range suits a wide range of applications and satisfies diverse client aesthetic preferences for flooring in interior spaces through an extensive offering of designs, colors and sizes.

2.2 PRODUCT FLOW DIAGRAM

A flow diagram illustrating the production processes and life cycle phases included in the scope of the EPD is provided below.



2.3 APPLICATION

The products provide the primary function of flooring for interior applications. The flooring products are used in various residential and commercial applications including retail, healthcare, education, and hospitality.

2.4 DECLARATION OF METHODOLOGICAL FRAMEWORK

The scope of the EPD is cradle-to-grave, including raw material extraction and processing, transportation, product manufacture, product delivery, installation and use, and product disposal. The life cycle phases included in the product system boundary are shown below.

Cut-off and allocation procedures are described below and conform to the PCR and ISO standards.

Table 1. *Life cycle phases included in the product system boundary.*

Pı	roduct			truction ocess				Use					End-of	-life		Benefits and loads beyond the system boundary
A1	A2	А3	A4	A5	B1	B2	ВЗ	B4	B5	В6	В7	C1	C2	C3	C4	D
Raw material extraction and processing	Transport to manufacturer	Manufacturing	Transport	Construction - installation	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	Deconstruction demolition	Transport	Waste processing	Disposal	Reuse, recovery and/or recycling potential
Х	х	Х	х	Х	х	х	Х	х	Х	х	Х	х	Х	Х	Х	MND

X = included | MND = Module Not Declared

2.5 TECHNICAL DATA

Technical specifications for the LVT flooring product are summarized in Table 2 through Table 3.

 Table 2. Product specifications for TAJ LVT vinyl flooring.

Char	acteristic		Description					
Sustainable certificati	Sustainable certifications			ISO 14001; CE				
VOC emissions test m	nethod			Flo	orScore®			
Char	acteristic		Nominal Value	Unit	Unit Maximum Value Minim			
Product thickness	Product thickness		3.0 (0.118)	mm (inch)	4.0 (0.157)	2.0 (0.079)		
Wear layer thickness	(where ap	olicable)	0.3 (0.012)	mm (inch)	0.7 (0.028)	0.1 (0.004)		
Product weight	Product weight		5,000 (16)	g/m ² (oz/ft ²)				
Dan durat Faran	D	Width	184 (7.2)	mm (inch)	229 (9.0)	152 (6.0)		
Product Form	Tiles	Length	950 (37)	mm (inch)	1219 (48)	914 (36)		

Table 3. Product specifications for TAJ Modular Acoustic LVT vinyl flooring.

Char	acteristic		Description				
Sustainable certifications				ISO	14001; CE		
VOC emissions test m	nethod			Flo	oorScore®		
Char	acteristic		Nominal Value	Unit	Unit Maximum Value Minimum Va		
Product thickness	Product thickness		5.0 (0.197)	mm (inch)	5.0 (0.197)	4.5 (0.177)	
Wear layer thickness	(where app	olicable)	0.5 (0.020)	0.5 (0.020) mm (inch)		0.3 (0.012)	
Product weight		8,760 (29)	g/m² (oz/ft²)	8,990 (29)	7,890 (26)		
Product Form	T1	Width	178 (7.0)	mm (inch)	229 (9.0)	152 (6.0)	
	Tiles	Length	1219 (48)	mm (inch)	1219 (48)	914 (36)	

2.6 MARKET PLACEMENT/APPLICATION RULES

Technical specifications of the flooring products are summarized below. Detailed product performance results can be found on the manufacturer's website www.tajflooring.com

2.7 PROPERTIES OF DECLARED PRODUCT AS DELIVERED

The LVT flooring products are delivered for installation in the form of planks of various dimensions.



2.8 MATERIAL COMPOSITION

The luxury vinyl flooring products are made primarily from virgin and recycled polyvinyl chloride (PVC), calcium carbonate (mineral reinforcement), plasticizers and additives (i.e., pigments and stabilizers). The products are structured with multiple layers including a PVC wear layer and a polyurethane (PU) protective layer.

Table 4. Material content for the LVT flooring products in kg per square meter and percent of total mass.

Material	TAJ LVT	TAJ Modular Acoustic LVT
D D)/C	2.99	3.90
Recycled PVC	62%	45%
PVC	0.840	0.732
PVC	17%	8.3%
CaCO₃	0.796	3.58
CaCO ₃	16%	41%
Plasticizer	0.174	0.477
PlaSticizei	3.6%	5.4%
Stabilizer	3.50x10 ⁻²	4.70x10 ⁻²
Stabilizer	0.72%	0.54%
Othor	2.50x10 ⁻²	2.90x10 ⁻²
Other	0.51%	0.33%
Total Product	4.86	8.77
rotal Product	100%	100%

No substances required to be reported as hazardous are associated with the production of this product.

2.9 MANUFACTURING

The products are manufactured at the production facility in Korea. The manufacturer provided primary data for their annual production, resource use and electricity consumption and waste generation at the facility. Electricity consumption is modeled using Ecoinvent datasets for the regional electricity grid resource mix.

The production of luxury vinyl tile flooring involves the following general manufacturing processes. The raw materials are first mixed and heated. The mixture is then calendared into a sheet to create the backing or the transparent wear layers. The sheets are cut and laminated with a print film. Finally, the product is cut into tiles and packaged. Quality checks are made at each step of the production process.

2.10 PACKAGING

The products are packaged for shipment using paper, corrugated board and wooden pallets.

Table 5. Material content for the flooring product packaging in kg per square meter of flooring.

Material	TAJ LVT	TAJ Modular Acoustic LVT
Carrigated	0.120	0.184
Corrugated	55%	51%
	9.64x10 ⁻²	0.178
Wood	45%	49%
Total Basks sins	0.216	0.362
Total Packaging	100%	100%

2.11 PRODUCT INSTALLATION

Installation of the product is accomplished using hand tools with negligible impacts. The impacts associated with packaging disposal are included with the installation phase as per PCR requirements.

2.12 USE CONDITIONS

No special conditions of use are noted.

2.13 REFERENCE SERVICE LIFE

The Reference Service Life (RSL) of the flooring products varies based on the manufacturer's warranted lifetime.

2.14 RE-USE PHASE

The flooring products are not reused at end-of-life.

2.15 DISPOSAL

At end-of-life, the products are disposed of in a landfill.

2.16 FURTHER INFORMATION

Further information on the product can be found on the manufacturer's website www.tajflooring.com.

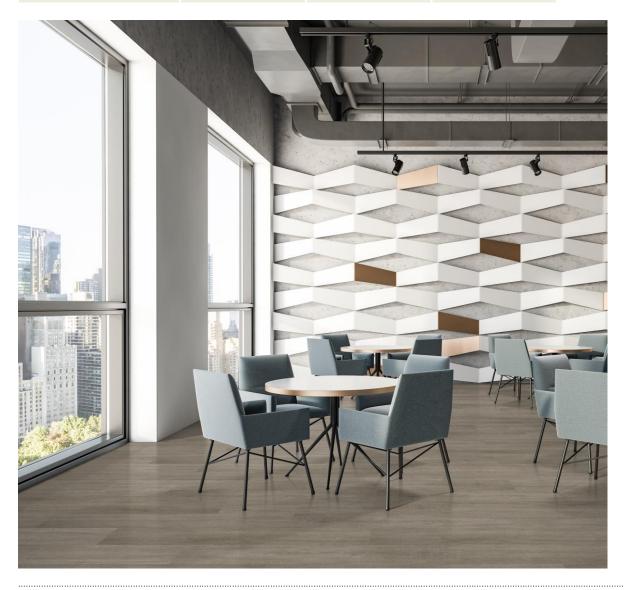
3. LCA: Calculation Rules

3.1 FUNCTIONAL UNIT

The functional unit used in the study is defined as 1 m^2 of floor covering installed for use over a 75-year period. The corresponding reference flow for each product system is presented in Table 5. For the present assessment, a reference service lifetime (RSL) corresponding to the manufacturer's warranted lifetime is assumed. The total number of required product lifecycles during the 75-year period over which the product system is modeled is also summarized for the products in Table 6.

Table 6. Reference flow and RSL for the LVT flooring products.

Product Line	Reference flow (kg/m²)	Reference Service Life – RSL (years)	Total # of Products Modeled
TAJ LVT	4.86	15	5
TAJ Modular Acoustic LVT	8.77	15	5



3.2 SYSTEM BOUNDARY

The scope of the EPD is cradle-to-grave, including raw material extraction and processing, transportation, product manufacture, product delivery, installation and use, and product disposal. The life cycle phases included in the EPD scope are described in Table 7 and illustrated in Figure 1 and Figure 2.

Table 7. The modules and unit processes included in the scope for the flooring product system.

Module	Module description from the PCR	Unit Processes Included in Scope
A1	Extraction and processing of raw materials; any reuse of products or materials from previous product systems; processing of secondary materials; generation of electricity from primary energy resources; energy, or other, recovery processes from secondary fuels	Extraction and processing of raw materials for the flooring components.
A2	Transport (to the manufacturer)	Transport of component materials to the manufacturing facility
A3	Manufacturing, including ancillary material production	Manufacturing of flooring products and packaging (incl. upstream unit processes)
A4	Transport (to the building site)	Transport of product (including packaging) to the building site
A5	Construction-installation process	The product is installed using the manufacturer's recommended, or similar, adhesives with negligible impacts. Only impacts from packaging disposal are included in this phase.
B1	Product use	Use of the flooring in a commercial building setting. There are no associated emissions or impacts from the use of the product
B2	Product maintenance	Maintenance of products over the 75-year ESL, including periodic cleaning.
В3	Product repair	The flooring is not expected to require repair over its lifetime.
B4	Product replacement	The materials and energy required for replacement of the product over the 75-year ESL of the assessment are included in this phase
B5	Product refurbishment	The flooring is not expected to require refurbishment over its lifetime.
В6	Operational energy use by technical building systems	There is no operational energy use associated with the use of the product
В7	Operational water use by technical building systems	There is no operational water use associated with the use of the product
C1	Deconstruction, demolition	Demolition of the product is accomplished using hand tools with no associated emissions and negligible impacts
C2	Transport (to waste processing)	Transport of flooring product to waste treatment at end-of-life
C3	Waste processing for reuse, recovery and/or recycling	The product is disposed of by landfilling which require no waste processing
C4	Disposal	Disposal of flooring product in municipal landfill
D	Reuse-recovery-recycling potential	Module Not Declared

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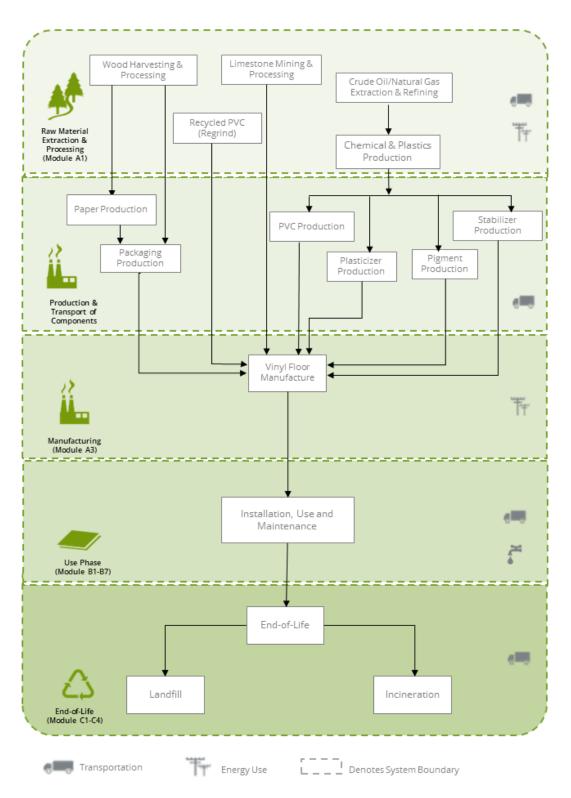


Figure 1. Flow diagram for the life cycle of the TAJ LVT flooring products.

3.3 PRODUCT SPECIFIC CALCULATION FOR USE PHASE

The recommended cleaning regime is highly dependent on the use of the premises where the floor covering is installed. In high traffic areas more frequent cleaning will be needed compared to areas where there is low traffic. For the purposes of this EPD, average maintenance (moderate traffic levels) is presented based on typical installations.

3.4 UNITS

All data and results are presented using SI units.

3.5 ESTIMATES AND ASSUMPTIONS

- Electricity use at the manufacturing facilities was allocated to the products based on the product area as a fraction of the total production.
- The manufacturing facilities under review are located in Korea. Ecoinvent inventory datasets for the appropriate regional energy grid was used to model resource use and emissions from electricity use at the manufacturing facility.
- Life cycle inventory data for the plasticizer, dioctyl terephthalate (DOTP), were not available. Inventory data developed for diisoheptyl phthalate (DIHP) was used as a surrogate to represent DOTP in the LCA model.
- Inventory data for some material components were unavailable and modeled using proxy datasets from the Ecoinvent LCI databases.
- The Reference Service Life (RSL) of the products was modeled based on information provided by the manufacturers assuming their products are installed and maintained as recommended and used for the specific application noted.
- Downstream transport was modeled based on information provided by the manufacturers representing global product distribution.
- The maintenance phase of the product life cycle was modeled based on information provided by the manufacturers including recommended installation and cleaning methods, as well as cleaning frequency.
- For the product end-of-life, disposal of product and product packaging is modeled based on the PCR guidance regarding recycling rates of product and packaging materials.
- For final disposal of the packaging material and flooring products at end-of-life, all materials are assumed to be transported 20 miles by diesel truck to either a landfill or material reclamation facility (for recycling). Datasets representing disposal in a landfill and waste incineration are from Ecoinvent.

The PCR requires the results for several inventory flows related to construction products to be reported including energy and resource use and waste and outflows. These are aggregated inventory flows, and do not characterize any potential impact; results should be interpreted taking into account this limitation.

3.6 CUT-OFF RULES

According to the PCR, processes contributing greater than 1% of the total environmental impact indicator for each impact are included in the inventory. No data gaps were allowed which were expected to significantly affect the outcome of the indicator results. No known flows are deliberately excluded from this EPD.

3.7 DATA SOURCES

Primary data were provided for the manufacturing facility. The sources of secondary LCI data are the Ecoinvent database.

 Table 8. Data sources for the LVT flooring products.

Component	Dataset	Data Source	Publication Date
PRODUCT			
PVC			
Polyvinyl Chloride	polyvinylchloride production, bulk polymerisation polyvinylchloride, bulk polymerised Cutoff, S/RoW	EI v3.8	2021
Filler			
Calcium Carbonate	limestone production, crushed, washed limestone, crushed, washed Cutoff, S/RoW	EI v3.8	2021
Plasticizer			
PVC Plasticizer*	diisoheptyl phthalate (DIHP)* {GLO} market for Alloc Rec U System	EI v3.8	2021
Stabilizer			
	barium carbonate production barium carbonate Cutoff, S/GLO	EI v3.8	2021
Stabilizer	zinc oxide production zinc oxide Cutoff, S/RoW	EI v3.8	2021
Stabilizer	solvent production, organic solvent, organic Cutoff, S/GLO	EI v3.8	2021
	chemical production, organic chemical, organic Cutoff, S/GLO	EI v3.8	2021
Other			
Pigments, Catalysts, Additives	chemical production, organic chemical, organic Cutoff, S/GLO; carbon black production carbon black Cutoff, S/GLO; market for titanium dioxide titanium dioxide Cutoff, S/RoW	EI v3.8	2021
PACKAGING			
Cardboard	containerboard production, linerboard, kraftliner containerboard, linerboard Cutoff, S/RoW	EI v3.8	2021
Wood	market for EUR-flat pallet EUR-flat pallet Cutoff, S/GLO	EI v3.8	2021
TRANSPORT			
Road transport	transport, freight, lorry 16-32 metric ton, EURO4 transport, freight, lorry 16-32 metric ton, EURO4 Cutoff, S/RoW	El v3.8	2021
Ship transport	transport, freight, sea, container ship transport, freight, sea, container ship Cutoff, S/GLO	El v3.8	2021
RESOURCES			
Grid electricity - Korea	market for electricity, medium voltage electricity, medium voltage Cutoff, S/KR	EI v3.8	2021
Heat – natural gas	heat production, natural gas, at boiler modulating >100kW heat, district or industrial, natural gas Cutoff, S/RoW	EI v3.8	2021
Heat – fuel oil	heat production, light fuel oil, at industrial furnace 1MW heat, district or industrial, other than natural gas Cutoff, S/RoW	El v3.8	2021
Heat – gasoline	petrol, unleaded, burned in machinery petrol, unleaded, burned in machinery Cutoff, S/GLO	El v3.8	2021

3.8 DATA QUALITY

The data quality assessment addressed the following parameters: time-related coverage, geographical coverage, technological coverage, precision, completeness, representativeness, consistency, reproducibility, sources of data, and uncertainty.

Table 9. Data quality assessment for the flooring product system.

Data Quality Parameter	Data Quality Discussion
Time-Related Coverage: Age of data and the minimum length of time over which data is collected	The most recent available data are used, based on other considerations such as data quality and similarity to the actual operations. Typically, these data are less than 5 years old (typically 2016). All of the data used represented an average of at least one year's worth of data collection, and up to three years in some cases. Manufacturer-supplied data (primary data) are based on annual production for 2021.
Geographical Coverage: Geographical area from which data for unit processes is collected to satisfy the goal of the study	The data used in the analysis provide the best possible representation available with current data. Electricity use for product manufacture is modeled using representative data for regional power mixes from the Ecoinvent LCI database. Surrogate data used in the assessment are representative of global or North American operations. Data representative of global operations are considered sufficiently similar to actual processes. Data representing product disposal are based on US statistics.
Technology Coverage: Specific technology or technology mix	For the most part, data are representative of the actual technologies used for processing, transportation, and manufacturing operations. Representative datasets, specific to the type of material, are used to represent the actual processes, as appropriate.
Precision: Measure of the variability of the data values for each data expressed	Precision of results are not quantified due to a lack of data. Data collected for operations were typically averaged for one or more years and over multiple operations, which is expected to reduce the variability of results.
Completeness: Percentage of flow that is measured or estimated	The LCA model included all known mass and energy flows for production of the flooring products. Ir some instances, surrogate data used to represent upstream and downstream operations may be missing some data which is propagated in the model. No known processes or activities contributing to more than 1% of the total environmental impact for each indicator are excluded.
Representativeness: Qualitative assessment of the degree to which the data set reflects the true population of interest	Data used in the assessment represent typical or average processes as currently reported from multiple data sources and are therefore generally representative of the range of actual processes and technologies for production of these materials. Considerable deviation may exist among actual processes on a site-specific basis; however, such a determination would require detailed data collection throughout the supply chain back to resource extraction.
Consistency: Qualitative assessment of whether the study methodology is applied uniformly to the various components of the analysis	The consistency of the assessment is considered to be high. Data sources of similar quality and age are used; with a bias towards Ecoinvent v3.8 data where available. Different portions of the product life cycle are equally considered.
Reproducibility: Qualitative assessment of the extent to which information about the methodology and data values would allow an independent practitioner to reproduce the results reported in the study	Based on the description of data and assumptions used, this assessment would be reproducible by other practitioners. All assumptions, models, and data sources are documented.
Sources of the Data: Description of all primary and secondary data sources	Data representing energy use at manufacturing facility represent an annual average and are considered of high quality due to the length of time over which these data are collected, as compared to a snapshot that may not accurately reflect fluctuations in production. For secondary LCI data, Ecoinvent v3.8 LCI data are used.
Uncertainty of the Information: Uncertainty related to data, models, and assumptions	Uncertainty related to materials in the products and packaging is low. Actual supplier data for all upstream operations were not available and the study relied upon the use of existing representative datasets. These datasets contained relatively recent data (<10 years) but lacked geographical representativeness. Uncertainty related to the impact assessment methods used in the study are high. The impact assessment method required by the PCR includes impact potentials, which lack characterization of providing and receiving environments or tipping points.

3.9 PERIOD UNDER REVIEW

The period of review calendar year 2021.

3.10 ALLOCATION

Manufacturing resource use was allocated to the products based on surface area. Impacts from transportation were allocated based on the mass of material and distance transported.

3.11 COMPARABILITY

The PCR this EPD was based on was not written to support comparative assertions. EPDs based on different PCRs, or different calculation models, may not be comparable. When attempting to compare EPDs or life cycle impacts of products from different companies, the user should be aware of the uncertainty in the final results, due to and not limited to, the practitioner's assumptions, the source of the data used in the study, and the specifics of the product modeled.

4. LCA: Scenarios and Additional Technical Information

Delivery and Installation stage (A4 - A5)

Distribution of the flooring products to the point of installation is included in the assessment based on information provided by the manufacturer. Transportation parameters for modeling transport to consumer markets are summarized in Table 10.

Table 10. Product distribution parameters by transport mode and consumer market.

Parameter	Value					
Diesel truck – Fuel utilization (L/100 km)		18.7				
Diesel truck – Capacity utilization (%)		76%				
Ocean freighter – Fuel utilization (g/tkm)	2.5					
Ocean freighter – Capacity utilization (%)	65%					
Product	Transport distance (km)					
Product	Truck	Ship	Mass (kg)			
TAJ LVT	800	11,331	5.08			
TAJ Modular Acoustic	800	11,331	9.13			

Installation of the product is accomplished using hand tools with no associated emissions and negligible impacts. The impacts associated with packaging disposal are included with the installation phase as per PCR requirements.

Table 11. Installation parameters for the LVT flooring products, per 1 m² (A5).

Parameter	Value			
Ancillary materials			-	
Net freshwater consumption (m ³)			-	
Electricity consumption (kWh)			-	
Product loss per functional unit (kg)		negl	igible	
Waste materials generated by product installation (kg)	negligible			
Output materials resulting from on-site waste processing (kg)	na			
Direct emissions (kg)			-	
Product	Mass of packa	ging waste (kg)	Biogenic carbon in packaging	
rroddet	Corrugate	Wood	(kg CO₂)	
TAJ LVT	0.120	9.64x10 ⁻²	0.397	
TAJ Modular Acoustic LVT	0.184	0.178	0.664	

Use stage (B1)

No impacts are associated with the use of the product over the Reference Service Lifetime.

Maintenance stage (B2)

According to the manufacturer, typical maintenance involves regular sweeping and damp mopping of the flooring. The present assessment is based on a recommended weekly cleaning schedule including sweeping and mopping with a neutral cleaner.

Table 12. Maintenance parameters for the flooring products, per 1 m^2 .

Parameter	Unit	Value		
Maintenance process		Damp mopping		
Net freshwater consumption	m³/m²/yr	0.0058		
Cleaning agent	kg/m²/yr	0.119		
Further assumptions	-	Moderate traffic		

Repair/Refurbishment stage (B3; B5)

Product repair and refurbishment are not relevant during the lifetime of the product.

Replacement stage (B4)

The materials and energy required for replacement of the product over the 75-year estimated service lifetime of the assessment are included in this stage.

Building operation stage (B6 - B7)

There is no operational energy or water use associated with the use of the product.

Disposal stage (C1 - C4)

The disposal stage includes demolition of the products (C1); transport of the flooring products to waste treatment facilities (C2); waste processing (C3); and associated emissions as the product degrades in a landfill (C4). For the LVT flooring products, no emissions are generated during demolition (C1) while no waste processing (C3) is required for landfill disposal.

Transportation of waste materials at end-of-life (*C2*) assumes a 20 mile (~32 km) average distance to disposal, consistent with assumptions used in the US EPA WARM model. The recycling rates used for the product packaging are based on national waste disposal statistics regarding recycling rates for North America as specified in the PCR. No recycling of the product materials is assumed at end-of-life. The relevant disposal statistics used for the packaging are summarized in Table 13.

Table 13. Recycling rates for packaging materials at end-of-life.

Material	North America				
Packaging					
Paper & Pulp	78%				
Wood	26%				
Disposal of Non-recyclables					
Landfill	80%				
Incineration	20%				

Table 14. End-of-life disposal scenario parameters for the flooring product.

Parameter	TAJ LVT	TAJ Modular Acoustic LVT
Assumptions for scenario development	100% landfill	100% landfill
Collection process		
Collected with mixed construction waste (kg)	4.86	8.77
Recovery	n/a	n/a
Landfill disposal (kg)	4.86	8.77
Removals of biogenic carbon (kg CO ₂ eq)	n/a	n/a

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5. LCA: Results

Results of the Life Cycle Assessment are presented below. It is noted that LCA results are relative expressions and do not predict impacts on category endpoints, the exceeding of thresholds, safety margins or risks. All LCA results are stated to three significant figures in agreement with the PCR for this flooring product and therefore the sum of the total values may not exactly equal 100%.

The following environmental impact category indicators are reported using characterization factors based on the U.S. EPA's Tool for the Reduction and Assessment of Chemical and Other Environmental Impacts – TRACI 2.1 and CML-IA.

CMLI-A Impact Category	Unit	TRACI 2.1 Impact Category	Unit
Global Warming Potential (GWP)	kg CO ₂ eq	Global Warming Potential (GWP)	kg CO2 eq
Depletion potential of the stratospheric ozone layer (ODP)	kg CFC 11 eq	Ozone Depletion Potential (ODP)	kg CFC 11 eq
Acidification Potential of soil and water (AP)	kg SO ₂ eq	Acidification Potential (AP)	kg SO ₂ eq
Eutrophication Potential (EP)	kg PO ₄ 3- eq	Eutrophication Potential (EP)	kg N eq
Photochemical Oxidant Creation Potential (POCP)	kg C₂H₄ eq	Smog Formation Potential (SFP)	kg O₃ eq
Abiotic depletion potential (ADP-elements) for non-fossil resources	kg Sb eq	Fossil Fuel Depletion Potential (ADP _{fossil})	MJ Surplus, LHV
Abiotic depletion potential (ADP-fossil fuels) for fossil resources	MJ, LHV		

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.

The following inventory parameters, specified by the PCR, are also reported.

Resources	Unit	Waste and Outflows	Unit
RPR _E : Renewable primary resources used as energy carrier (fuel)	MJ, LHV	HWD: Hazardous waste disposed	kg
RPR _M : Renewable primary resources with energy content used as material	MJ, LHV	NHWD: Non-hazardous waste disposed	kg
NRPR _E : Non-renewable primary resources used as an energy carrier (fuel)	MJ, LHV	HLRW: High-level radioactive waste, conditioned, to final repository	kg
NRPR _M : Non-renewable primary resources with energy content used as material	MJ, LHV	ILLRW: Intermediate- and low-level radioactive waste, conditioned, to final repository	kg
SM: Secondary materials	MJ, LHV	CRU: Components for re-use	kg
RSF: Renewable secondary fuels	MJ, LHV	MR: Materials for recycling	kg
NRSF: Non-renewable secondary fuels	MJ, LHV	MER: Materials for energy recovery	kg
RE: Recovered energy	MJ, LHV	EE: Recovered energy exported from the product system	MJ, LHV
FW: Use of net freshwater resources	m³		

Modules B1, B3, B5, B6 and B7 are not associated with any impact and are therefore declared as zero. In addition, module C1 is likewise not associated with any impact as the floor is manually deconstructed. Additionally, as the LVT flooring products do not typically contain significant amounts of bio-based materials, biogenic carbon emissions and removals are not declared. Module D is not declared. In the interest of space and table readability, these modules are not included in the results presented below.

TAJ Flooring, Inc. | TAJ LVT

Table 15. Life Cycle Impact Assessment (LCIA) results for the **TAJ LVT** flooring products over a 75-yr time horizon. Results reported in MJ are calculated using lower heating values. All values are rounded to three significant digits.

Impact Category	A1	A2	A3	A4	A5	B2	B4	C2	C4
CML-IA									
GWP (kg CO ₂ eq)	11.2	0.296	2.62	1.23	4.56x10 ⁻²	8.37	72.9	0.198	2.58
GWI (kg CO2 eq)	11%	0.3%	2.6%	1.2%	0.046%	8.4%	73%	0.2%	2.6%
AP (kg SO ₂ eq)	4.53x10 ⁻²	1.15x10 ⁻³	7.25x10 ⁻³	1.68x10 ⁻²	5.22x10 ⁻⁵	3.91x10 ⁻²	0.288	9.24x10 ⁻⁴	6.24x10 ⁻⁴
AF (kg 302 eq)	11%	0.29%	1.8%	4.2%	0.013%	9.8%	72%	0.23%	0.16%
EP (kg (PO ₄) ³⁻ eq)	1.47x10 ⁻²	2.67x10 ⁻⁴	6.86x10 ⁻³	2.19x10 ⁻³	2.17x10 ⁻⁴	1.49x10 ⁻²	0.148	1.98x10 ⁻⁴	1.27x10 ⁻²
EP (kg (PO4) ² eq)	7.3%	0.13%	3.4%	1.1%	0.11%	7.4%	74%	0.099%	6.3%
POCP (kg C ₂ H ₄	2.55x10 ⁻³	3.93x10 ⁻⁵	3.05x10 ⁻⁴	4.54x10 ⁻⁴	9.36x10 ⁻⁶	2.62x10 ⁻³	1.58x10 ⁻²	3.05x10 ⁻⁵	5.54x10 ⁻⁴
eq)	11%	0.18%	1.4%	2%	0.042%	12%	71%	0.14%	2.5%
ODP (kg CFC-11	4.58x10 ⁻⁶	5.15x10 ⁻⁸	7.18x10 ⁻⁸	2.05x10 ⁻⁷	1.76x10 ⁻⁹	4.13x10 ⁻⁷	1.98x10 ⁻⁵	3.43x10 ⁻⁸	1.33x10 ⁻⁸
eq)	18%	0.2%	0.28%	0.82%	0.007%	1.6%	79%	0.14%	0.053%
ADPE (kg Sb eq)	1.52x10 ⁻⁴	1.03x10 ⁻⁶	4.10x10 ⁻⁶	3.14x10 ⁻⁶	1.24x10 ⁻⁸	1.68x10 ⁻⁴	6.44x10 ⁻⁴	1.74x10 ⁻⁷	3.11x10 ⁻⁷
ADFL (kg 30 eq)	16%	0.11%	0.42%	0.32%	0.0013%	17%	66%	0.018%	0.032%
ADPF (MI eq)	232	4.39	29.3	17.1	0.145	186	1,150	2.71	1.48
ADFF (IVIJ EQ)	14%	0.27%	1.8%	1.1%	0.0089%	11%	71%	0.17%	0.091%
TRACI 2.1									
GWP (kg CO ₂ eq)	11.1	0.296	2.61	1.23	3.83x10 ⁻²	8.29	70.3	0.198	2.09
GV1 (1/g CO2 Cq)	12%	0.31%	2.7%	1.3%	0.04%	8.6%	73%	0.21%	2.2%
AP (kg SO ₂ eq)	4.66x10 ⁻²	1.35x10 ⁻³	8.47x10 ⁻³	1.81x10 ⁻²	6.50x10 ⁻⁵	4.02x10 ⁻²	0.306	1.14x10 ⁻³	9.02x10 ⁻⁴
711 (Kg 302 cq)	11%	0.32%	2%	4.3%	0.015%	9.5%	72%	0.27%	0.21%
EP (kg N eq)	2.83x10 ⁻²	3.23x10 ⁻⁴	1.45x10 ⁻²	1.54x10 ⁻³	5.75x10 ⁻⁴	2.94x10 ⁻²	0.318	1.45x10 ⁻⁴	3.40x10 ⁻²
Lr (kg N eq)	6.6%	0.076%	3.4%	0.36%	0.13%	6.9%	74%	0.034%	8%
SFP (kg O₃ eq)	0.607	3.24x10 ⁻²	0.163	0.351	1.72x10 ⁻³	0.467	4.80	3.23x10 ⁻²	1.24x10 ⁻²
OFF (KB O3 Eq)	9.4%	0.5%	2.5%	5.4%	0.027%	7.2%	74%	0.5%	0.19%
ODP (kg CFC-11	4.74x10 ⁻⁶	6.85x10 ⁻⁸	1.06x10 ⁻⁷	2.73x10 ⁻⁷	2.34x10 ⁻⁹	5.08x10 ⁻⁷	2.10x10 ⁻⁵	4.57x10 ⁻⁸	1.77x10 ⁻⁸
eq)	18%	0.26%	0.4%	1%	0.0087%	1.9%	78%	0.17%	0.066%
FFD (MI oc)	30.5	0.626	2.10	2.48	2.14x10 ⁻²	24.8	145	0.409	0.187
FFD (MJ eq)	15%	0.3%	1%	1.2%	0.01%	12%	70%	0.2%	0.091%

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Table 16. Resource use and waste flows for the **TAJ LVT** flooring products over a 75-yr time horizon. Results reported in MJ are calculated using lower heating values. All values are rounded to three significant digits.

Parameter	A1	A2	А3	A4	A5	B2	B4	C2	C4
Resources									
RPR _E (MJ)	10.2	5.01x10 ⁻²	5.84	0.163	1.22x10 ⁻³	17.8	65.3	1.04x10 ⁻²	6.43x10 ⁻²
THE (IVI)	10%	0.05%	5.9%	0.16%	0.0012%	18%	66%	0.01%	0.065%
RPR _M (MJ)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IXI IXM (IVIJ)	0%	0%	0%	0%	0%	0%	0%	0%	0%
NRPR _E (MJ)	INA								
NRPR _M (MJ)	INA								
SM (kg)	0.962	0.00	0.00	0.00	0.00	0.00	3.85	0.00	0.00
SM (kg)	20%	0%	0%	0%	0%	0%	80%	0%	0%
RSF/NRSF (MJ)	Neg.								
RE (MJ)	Neg.								
FW (m ³)	0.853	3.06x10 ⁻³	0.230	9.66x10 ⁻³	9.56x10 ⁻⁵	1.16	4.40	8.57x10 ⁻⁴	3.39x10 ⁻³
FVV (IIIF)	13%	0.046%	3.5%	0.15%	0.0014%	17%	66%	0.013%	0.051%
Wastes									
HWD (kg)	1.50x10 ⁻⁴	1.17x10 ⁻⁵	1.53x10 ⁻⁵	3.39x10 ⁻⁵	3.67x10 ⁻⁷	1.00x10 ⁻⁴	8.95x10 ⁻⁴	7.39x10 ⁻⁶	4.88x10 ⁻⁶
11112 (1/6)	12%	0.96%	1.3%	2.8%	0.03%	8.2%	73%	0.61%	0.4%
NHWD (kg)	1.46	0.226	0.224	0.544	7.90x10 ⁻²	0.782	29.7	1.38x10 ⁻²	4.87
MINVD (Kg)	3.9%	0.6%	0.59%	1.4%	0.21%	2.1%	78%	0.036%	13%
HLRW (kg)	4.52x10 ⁻⁵	2.25x10 ⁻⁷	6.53x10 ⁻⁵	6.94x10 ⁻⁷	5.73x10 ⁻⁹	2.19x10 ⁻⁵	4.47×10 ⁻⁴	4.29x10 ⁻⁸	3.44x10 ⁻⁷
TILITY (Kg)	7.8%	0.039%	11%	0.12%	0.00099%	3.8%	77%	0.0074%	0.059%
ILLRW (kg)	2.81x10 ⁻⁴	2.88x10 ⁻⁵	1.25x10 ⁻⁴	1.15x10 ⁻⁴	9.80x10 ⁻⁷	1.35x10 ⁻⁴	2.31x10 ⁻³	1.92x10 ⁻⁵	7.92x10 ⁻⁶
ILLRVV (Kg)	9.3%	0.95%	4.1%	3.8%	0.032%	4.5%	76%	0.63%	0.26%
CRU (kg)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MD (lea)	0.00	0.00	0.00	0.00	0.119	0.00	0.476	0.00	0.00
MR (kg)	0%	0%	0%	0%	20%	0%	80%	0%	0%
MER (kg)	Neg.								
EE (MJ)	Neg.								

INA = Indicator not assessed | Neg. = Negligible

 Table 17. Life Cycle Impact Assessment (LCIA) results for the TAJ Modular Acoustic LVT flooring products over a 75-yr time horizon. Results
 reported in MJ are calculated using lower heating values. All values are rounded to three significant digits.

Impact Category	A1	A2	A3	A4	A5	B2	B4	C2	C4
CML-IA									
GWP (kg CO ₂ eq)	15.2	0.628	2.70	2.21	7.25x10 ⁻²	8.37	105	0.357	5.10
GWP (kg CO ₂ eq)	11%	0.45%	1.9%	1.6%	0.052%	6%	75%	0.26%	3.7%
AD (1:- CO)	6.13x10 ⁻²	2.44x10 ⁻³	7.62x10 ⁻³	3.01x10 ⁻²	8.75x10 ⁻⁵	3.91x10 ⁻²	0.418	1.67x10 ⁻³	1.18x10 ⁻³
AP (kg SO ₂ eq)	11%	0.44%	1.4%	5.4%	0.016%	7%	74%	0.3%	0.21%
ED (1 (DO)3)	1.94x10 ⁻²	5.66x10 ⁻⁴	7.07x10 ⁻³	3.93x10 ⁻³	3.80x10 ⁻⁴	1.49x10 ⁻²	0.217	3.57x10 ⁻⁴	2.27x10 ⁻²
EP (kg (PO ₄) ³⁻ eq)	6.8%	0.2%	2.5%	1.4%	0.13%	5.2%	76%	0.12%	7.9%
POCP (kg C ₂ H ₄	3.45x10 ⁻³	8.34x10 ⁻⁵	3.36x10 ⁻⁴	8.16x10 ⁻⁴	1.49x10 ⁻⁵	2.62x10 ⁻³	2.34x10 ⁻²	5.49x10 ⁻⁵	1.09x10 ⁻³
eq)	11%	0.26%	1.1%	2.6%	0.047%	8.2%	73%	0.17%	3.4%
ODP (kg CFC-11	5.81x10 ⁻⁶	1.09x10 ⁻⁷	7.75x10 ⁻⁸	3.69x10 ⁻⁷	2.96x10 ⁻⁹	4.13x10 ⁻⁷	2.58x10 ⁻⁵	6.19x10 ⁻⁸	2.41x10 ⁻⁸
eq)	18%	0.33%	0.24%	1.1%	0.009%	1.3%	79%	0.19%	0.074%
4.D.D.E. (1 Cl)	1.94x10 ⁻⁴	2.18x10 ⁻⁶	4.60x10 ⁻⁶	5.65x10 ⁻⁶	2.09x10 ⁻⁸	1.68x10 ⁻⁴	8.31x10 ⁻⁴	3.14x10 ⁻⁷	5.88x10 ⁻⁷
ADPE (kg Sb eq)	16%	0.18%	0.38%	0.47%	0.0017%	14%	69%	0.026%	0.049%
ADDE (MILL)	322	9.30	30.3	30.8	0.244	186	1,600	4.89	2.73
ADPF (MJ eq)	15%	0.43%	1.4%	1.4%	0.011%	8.5%	73%	0.22%	0.12%
TRACI 2.1									
CWP (kg CO- og)	15.0	0.627	2.69	2.21	6.12x10 ⁻²	8.29	100	0.357	4.12
GWP (kg CO ₂ eq)	11%	0.47%	2%	1.7%	0.046%	6.2%	75%	0.27%	3.1%
AD (kg CO	6.29x10 ⁻²	2.86x10 ⁻³	8.91x10 ⁻³	3.25x10 ⁻²	1.09x10 ⁻⁴	4.02x10 ⁻²	0.444	2.06x10 ⁻³	1.58x10 ⁻³
AP (kg SO₂ eq)	11%	0.48%	1.5%	5.5%	0.018%	6.8%	75%	0.35%	0.27%
ED (I - N)	3.71x10 ⁻²	6.85x10 ⁻⁴	1.49x10 ⁻²	2.78x10 ⁻³	1.01x10 ⁻³	2.94x10 ⁻²	0.469	2.62x10 ⁻⁴	6.04x10 ⁻²
EP (kg N eq)	6%	0.11%	2.4%	0.45%	0.16%	4.8%	76%	0.043%	9.8%
CED (l/g O 0 =)	0.820	6.86x10 ⁻²	0.171	0.631	2.89x10 ⁻³	0.467	7.10	5.83x10 ⁻²	2.29x10 ⁻²
SFP (kg O₃ eq)	8.8%	0.73%	1.8%	6.8%	0.031%	5%	76%	0.62%	0.24%
ODP (kg CFC-11	6.03x10 ⁻⁶	1.45x10 ⁻⁷	1.13x10 ⁻⁷	4.92x10 ⁻⁷	3.93x10 ⁻⁹	5.08x10 ⁻⁷	2.76x10 ⁻⁵	8.24x10 ⁻⁸	3.22x10 ⁻⁸
eq)	17%	0.42%	0.32%	1.4%	0.011%	1.5%	79%	0.24%	0.092%
EED (M.II.)	42.8	1.33	2.20	4.47	3.60x10 ⁻²	24.8	208	0.737	0.342
FFD (MJ eq)	15%	0.47%	0.77%	1.6%	0.013%	8.7%	73%	0.26%	0.12%

Table 18. Resource use and waste flows for the **TAJ Modular Acoustic LVT** flooring products over a 75-yr time horizon. Results reported in MJ are calculated using lower heating values. All values are rounded to three significant digits.

Parameter	A1	A2	A3	A4	A5	B2	B4	C2	C4
Resources									
RPR _E (MJ)	13.5	0.106	9.32	0.293	2.03x10 ⁻³	17.8	93.3	1.87x10 ⁻²	0.124
IXI IXE (IVIJ)	10%	0.079%	6.9%	0.22%	0.0015%	13%	69%	0.014%	0.092%
RPR _M (MJ)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IXI IXM (IVIJ)	0%	0%	0%	0%	0%	0%	0%	0%	0%
NRPR _E (MJ)	INA								
NRPR _M (MJ)	INA								
CM (lag)	1.04	0.00	0.00	0.00	0.00	0.00	4.16	0.00	0.00
SM (kg)	20%	0%	0%	0%	0%	0%	80%	0%	0%
RSF/NRSF (MJ)	Neg.								
RE (MJ)	Neg.								
F\\/ (\m^3)	1.11	6.50x10 ⁻³	0.236	1.74x10 ⁻²	1.60x10 ⁻⁴	1.16	5.52	1.55x10 ⁻³	6.52x10 ⁻³
FW (m ³)	14%	0.081%	2.9%	0.22%	0.002%	14%	68%	0.019%	0.081%
Wastes									
HWD (kg)	1.96x10 ⁻⁴	2.49x10 ⁻⁵	1.67x10 ⁻⁵	6.09x10 ⁻⁵	6.17x10 ⁻⁷	1.00x10 ⁻⁴	1.29x10 ⁻³	1.33x10 ⁻⁵	9.39x10 ⁻⁶
TIWD (kg)	11%	1.5%	0.98%	3.6%	0.036%	5.9%	75%	0.78%	0.55%
NILIM/D (kg)	1.90	0.479	0.239	0.979	0.139	0.782	50.2	2.49x10 ⁻²	8.79
NHWD (kg)	3%	0.75%	0.38%	1.5%	0.22%	1.2%	79%	0.039%	14%
LU DIA/ (L-)	5.89x10 ⁻⁵	4.77x10 ⁻⁷	6.56x10 ⁻⁵	1.25x10 ⁻⁶	9.50x10 ⁻⁹	2.19x10 ⁻⁵	5.08x10 ⁻⁴	7.74×10 ⁻⁸	6.67x10 ⁻⁷
HLRW (kg)	9%	0.073%	10%	0.19%	0.0014%	3.3%	77%	0.012%	0.1%
H I D\A / (l)	3.88x10 ⁻⁴	6.11x10 ⁻⁵	1.28×10 ⁻⁴	2.07x10 ⁻⁴	1.65x10 ⁻⁶	1.35×10 ⁻⁴	3.34x10 ⁻³	3.46x10 ⁻⁵	1.44x10 ⁻⁵
ILLRW (kg)	9%	1.4%	3%	4.8%	0.038%	3.1%	77%	0.8%	0.34%
CRU (kg)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MD (L-)	0.00	0.00	0.00	0.00	0.190	0.00	0.761	0.00	0.00
MR (kg)	0%	0%	0%	0%	20%	0%	80%	0%	0%
MER (kg)	Neg.								
EE (MJ)	Neg.								

INA = Indicator not assessed | Neg. = Negligible

6. LCA: Interpretation

The contributions to total impact indicator results are dominated by the product replacement phase of the assessment. Of the remaining life cycle phases, the raw material extraction and processing and product maintenance phases are generally the highest contributors to most impact indicators with the exception of the Eutrophication Potential which is dominated by contributions from product disposal.

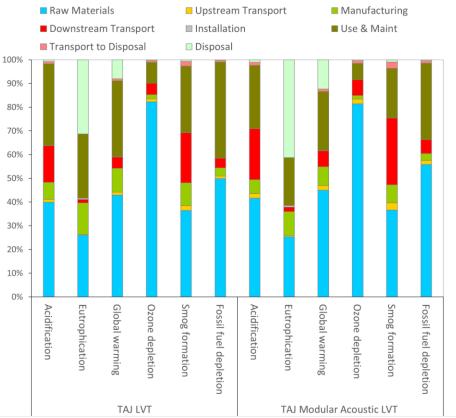
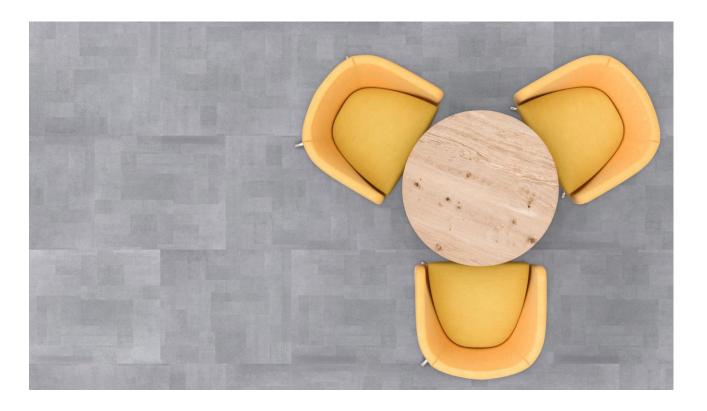


Figure 2. Contribution analysis for the flooring products – TRACI 2.1. (excluding product replacements)



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