

ENVIRONMENTAL PRODUCT DECLARATION

SOUND CHOICE+

INTERFACE, INC
4.5 MM LVT



Modular Resilient Flooring
4.5 mm Luxury Vinyl Tile

Interface®

For more than four decades, Interface has consistently led the industry through design and innovation and is a world leader in environmental sustainability. We are committed to transparency and will continue to share our progress as we work to become a carbon negative company by 2040.

At Interface we believe Life Cycle Assessment is critical for evaluating the environmental impact of our products. The LCA-based Environmental Product Declaration is the best way to provide full disclosure of those impacts to our customers.

Interface was one of the first companies to develop EPDs for all of our products manufactured globally, and we are committed to providing this level of transparency to our customers, partners and the industry.

For more information visit www.interface.com



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According to ISO 14025,
 EN 15804+A2, and ISO21930:2017

EPD PROGRAM AND PROGRAM OPERATOR NAME, ADDRESS, LOGO, AND WEBSITE	UL Solutions 333 Pfingsten Rd, Northbrook IL, 60062 www.ul.com www.spot.ul.com
GENERAL PROGRAM INSTRUCTIONS AND VERSION NUMBER	UI Solutions Program Operator Rules v.2.7 2022
MANUFACTURER NAME AND ADDRESS	Interface, Inc.; Seoul, South Korea
DECLARATION NUMBER	4791540199.101.1
DECLARED PRODUCT & FUNCTIONAL UNIT OR DECLARED UNIT	Interface modular resilient flooring, one square meter 4.5 mm Sound Choice+ LVT
REFERENCE PCR AND VERSION NUMBER	Part A: Life Cycle Assessment Calculation Rules and Report Requirements, (UL Environment, V4.0, 2022) and Part B: Flooring EPD Requirements (UL Environment V2.0, 2018)
DESCRIPTION OF PRODUCT APPLICATION/USE	Modular resilient flooring
PRODUCT RSL DESCRIPTION (IF APPL.)	15 years
MARKETS OF APPLICABILITY	Global
DATE OF ISSUE	April 9th , 2025
PERIOD OF VALIDITY	5 Years
EPD TYPE	Product specific
RANGE OF DATASET VARIABILITY	Primary-, generic- and proxy data
EPD SCOPE	Cradle to gate with options
YEAR(S) OF REPORTED PRIMARY DATA	2024
LCA SOFTWARE & VERSION NUMBER	LCA For Experts 10.9.0.31
LCI DATABASE(S) & VERSION NUMBER	LCA For Experts 10.9.0.31
LCIA METHODOLOGY & VERSION NUMBER	TRACI 2.1/CML 4.2/EF 3.1

The PCR review was conducted by:	UL Solutions
	PCR Review Panel
	epd@ul.com
This declaration was independently verified in accordance with ISO 14025: 2006. <input type="checkbox"/> INTERNAL <input checked="" type="checkbox"/> EXTERNAL	Cooper McCollum, UL Solutions
	Interface Inc.
This life cycle assessment was conducted in accordance with ISO 14044 and the reference PCR by:	
This life cycle assessment was independently verified in accordance with ISO 14044 and the reference PCR by:	 Salil Arora, Populus Group

LIMITATIONS

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

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

Comparability: EPDs from different programs may not be comparable. Full conformance with a PCR 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.



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1. Product Definition and Information

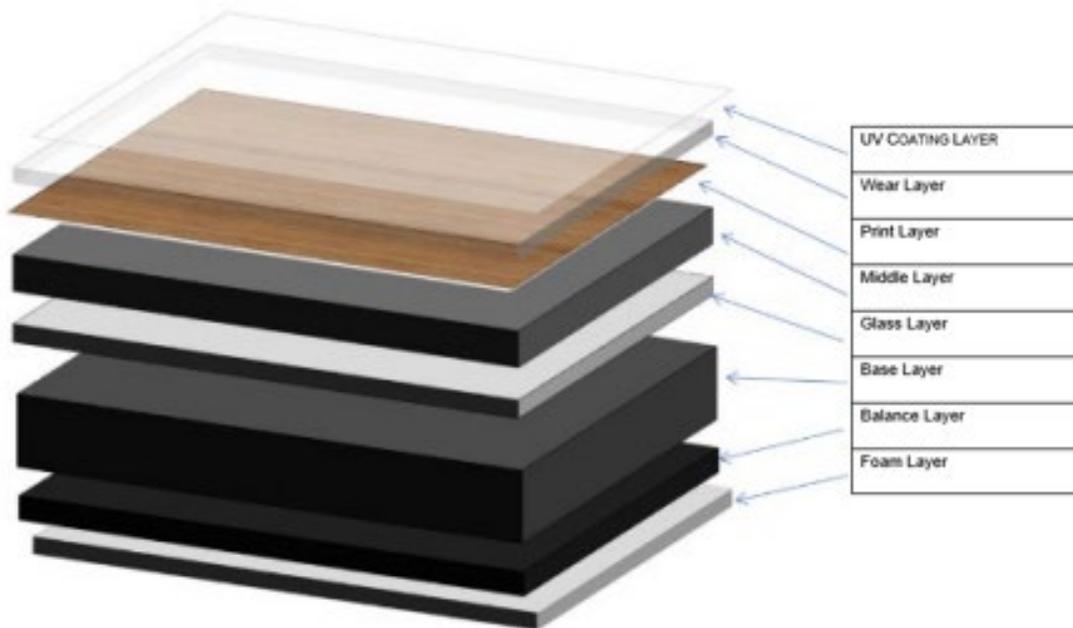
1.1. Description of Company/Organization

Interface, Inc. is a global flooring solutions company and sustainability leader, offering an integrated portfolio of carpet tile and resilient flooring products that includes Interface® carpet tile and LVT, nora® rubber flooring, and FLOR® premium area rugs for commercial and residential spaces. Made with purpose and without compromise, Interface flooring brings more sophisticated design, more performance, more innovation, and more climate progress to interior spaces. A decades-long pioneer in sustainability, Interface remains “all in” on becoming a restorative business. Today, the company is focusing on carbon reductions, not offsets, as it works toward achieving its verified science-based targets by 2030 and its goal to become a carbon negative enterprise by 2040.

1.2. Product Description

Product Identification

This Environmental Product Declaration covers all styles and patterns of Sound Choice+ modular resilient flooring LVT (luxury vinyl tile). The products are manufactured in Seoul, South Korea.



Product Specification

CSC code: 096500

Flow Diagram



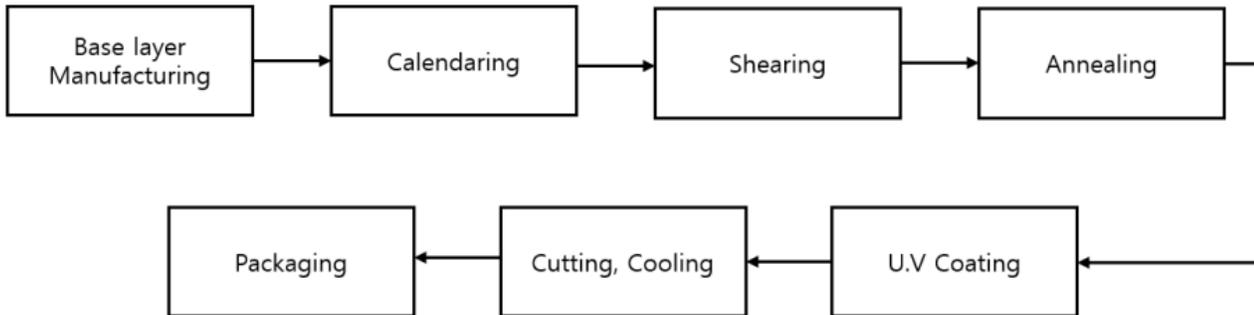
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A1-A3 measured flows including manufacturing processes, transport, and raw material inputs for each product layer and sub-layers.

1.3. Application

The application of this product is intended for modular installation of resilient floor covering in commercial buildings.

1.4. Declaration of Methodological Framework

The data is retrieved from a cradle to grave LCA study. This EPD covers the entire life cycle of the product from cradle to grave (modules A to C) and potential benefits and loads beyond the life cycle as Module D, excluding modules for which there are no inputs/outputs. No known flows are deliberately excluded from this EPD. The description of the study boundaries is declared in Section 2.2.

For this product, the stated RSL is 15 years. It should be noted, however, that the service life of floor coverings may vary depending on the amount and nature of floor traffic and the type and frequency of maintenance. The manufacturer has provided this service life on the basis of its product warranty.

1.5. Technical Requirements

NAME	VALUE	UNIT
Product form	Tiles (squares and planks)	-
Product Thickness	4.5*	mm
Total Weight	6320*	g/m ²

*nominal values

ISO 19874 Classes 33/42



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1.6. Properties of Declared Product as Delivered

Specific characteristics of Sound Choice+ floor coverings:

- Continuously produced floor coverings in planks and squares
- Thermoplastics, plasticizers, mineral fillers, and glass fibers

1.7. Material Composition

COMPONENT	VALUE	UNIT
PVC	27	%
Plasticizer	9	%
Filler	59	%
Glass fiber	1	%
Pigment	<1	%
Misc.	2	%
Additive & Stabilizer	2	%

1.8. Manufacturing

LVT is manufactured in South Korea. The product is produced through hot mixing and a continuous lamination process with a printed design layer. The product is then cut into tiles and packaged.

1.9. Packaging

Planks and tiles are packaged in cardboard boxes. Packaging waste should be reused or sent to local cardboard recycling facilities.

1.10. Transportation

Delivery is represented as transport by truck over a distance of 500 miles (805 km), and additionally transport by ship over a distance of 4400 miles (7125km).

1.11. Product Installation



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Product may be installed with adhesive. For full installation instructions, see the appropriate Interface Installation Guide via the website [LVT Installation Instructions](#)

1.12. Use

During the life of the product, it should be cleaned in accordance with the product maintenance instructions including dust and damp mop cleaning and buffing. The frequency is dependent upon the expected foot traffic and local conditions. [LVT Maintenance Guidelines](#)

1.13. Reference Service Life and Estimated Building Service Life

Reference service life (RSL) is 15 years based on product warranty.

1.14. Reuse, Recycling, and Energy Recovery

The modular aspect of the product allows for easy reuse of the product. The product is intended to be recycled through Interface's ReEntry process.

1.15. Disposal

At the end of life, the product should be returned to Interface through Interface's ReEntry process by contacting Interface at +1 888-733-6873 for US. Contact +31 33 277 5812 for the Netherlands. Contact +44 (0) 800 313 4465 for UK. Or contact local customer service through interface.com. Disposal in municipal landfill or commercial incineration facilities is permissible in accordance with local regulations.

2. Life Cycle Assessment Background Information

2.1. Functional or Declared Unit

The functional unit is one square meter of floorcovering

MODULAR RESILIENT FLOORING	VALUE	UNIT
Declared unit	1	m ²
Mass*	6.32	kg/m ²

*nominal value

2.2. System Boundary

The LCA is "cradle-to-gate with options" for one square meter flooring. While the warranted service life is 15 years, the maintenance (B2) is represented for one year. The system boundaries include:

- **A1** Raw material extraction and processing, and processing of recycled materials
- **A2** Transport to the factory
- **A3** Manufacturing including materials, packaging, energy, and waste disposal or recycling





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- **A4** Transport to installation sites
- **A5** Installation including ancillary materials required for installation and trim-waste disposal
- **B2** Maintenance: Includes the energy for vacuuming, damp mop cleaning, and the production of cleaning agents. The treatment of the waste-water from damp mop cleaning is included.
- **C2** Transport of waste to local disposal
- **C4** Disposal
- **D** Reuse, recovery and recycling potential

2.3. Estimates and Assumptions

The datasets for materials upstream from manufacturing are a combination of information from the Sphera database and supplier provided datasets. Inventories for all materials are not available and when unavailable, conservative proxy datasets were chosen based on similarity of material.

2.4. Cut-off Criteria

The cut-off criteria is less than 1% for energy use and less than 1% of total mass per unit process, the sum of which shall not exceed 5% of either energy or mass. If a flow met the cut-off criteria for exclusion, yet was thought to have significant environmental impact, then it was included. No known flows are deliberately excluded from this EPD.

2.5. Data Sources

The datasets for materials upstream from manufacturing are a combination of information from the Sphera database version 10.9.0.31 and supplier provided datasets.

2.6. Data Quality

The data quality ranges from fair to very good.

2.7. Period under Review

The data collection and the product described are an average product manufactured in 2024.

2.8. Allocation

Where relevant, the background data incorporates some allocation such as in the power mix. There are no co-products produced in the process, so the LCA model does not include allocation. No credits were taken for recycling of production waste.





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3. Life Cycle Assessment Scenarios

Table 1. Transport to the building site (A4)

NAME	VALUE	UNIT
Fuel type	Diesel	-
Liters of fuel	0.0021	l/100km
Vehicle type	Truck 34-40	tons
Transport distance (truck)	805	km
Transport distance (ship)	7125	km
Capacity utilization (truck)	85	%
Capacity utilization (ship)	48	%
Weight of products transported (if gross density not reported)	6.32*	kg
Volume of products transported (if gross density not reported)	0.0045	m ³
Capacity utilization volume factor (factor: =1 or <1 or ≥ 1 for compressed or nested packaging products)	1	-

*nominal value

Table 2. Installation into the building (A5)

NAME	VALUE	UNIT
Ancillary materials	0.107	kg
Net freshwater consumption specified by water source and fate (amount evaporated, amount disposed to sewer)	-	m ³
Other resources	-	kg
Electricity consumption	-	kWh
Other energy carriers	-	MJ
Product loss per functional unit	0.325	kg
Waste materials at the construction site before waste processing, generated by product installation	0.502	kg
Output materials resulting from on-site waste processing (specified by route; e.g. for recycling, energy recovery and/or disposal)	-	kg
Direct emissions to ambient air, soil and water	-	kg
VOC content	-	µg/m ³



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Table 3. Reference Service Life

NAME	VALUE	UNIT
RSL	15	years
Declared product properties (at the gate) and finishes, etc.		Units as appropriate
Design application parameters (if instructed by the manufacturer), including references to the appropriate practices and application codes)		Units as appropriate
An assumed quality of work, when installed in accordance with the manufacturer's instructions		Units as appropriate
Outdoor environment, (if relevant for outdoor applications), e.g. weathering, pollutants, UV and wind exposure, building orientation, shading, temperature		Units as appropriate
Indoor environment, (if relevant for indoor applications), e.g. temperature, moisture, chemical exposure)		Units as appropriate
Use conditions, e.g. frequency of use, mechanical exposure.		Units as appropriate
Maintenance, e.g. required frequency, type and quality of replacement components		Units as appropriate

Table 4. Maintenance (B2)

NAME	VALUE	UNIT
Maintenance process information (cite source in report)		-
Maintenance cycle	15	Number/ RSL
Maintenance cycle	75	Number/ ESL
Net freshwater consumption specified by water source and fate (amount evaporated, amount disposed to sewer)	0.00196	m ³
Ancillary materials specified by type (e.g. cleaning agent)	0.0119	kg
Other resources	-	kg
Energy input, specified by activity, type and amount	0.022	kWh
Other energy carriers specified by type	-	kWh
Power output of equipment	-	kW
Waste materials from maintenance (specify materials)	-	kg
Direct emissions to ambient air, soil and water	-	kg
Further assumptions for scenario development (e.g. frequency and time period of use, number of occupants);		





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Table 5. End of life (C1-C4)

NAME		VALUE	UNIT
Assumptions for scenario development (description of deconstruction, collection, recovery, disposal method and transportation)			
Collection process (specified by type)	Collected separately	6.43	kg
	Collected with mixed construction waste	-	kg
Recovery (specified by type)	Reuse	-	kg
	Recycling	-	kg
	Landfill	6.43	kg
	Incineration	-	kg
	Incineration with energy recovery	-	kg
	Energy conversion efficiency rate		
Disposal (specified by type)	Product or material for final deposition	6.43	kg
Removals of biogenic carbon (excluding packaging)		0.001	kg CO ₂

Table 6. Reuse, recovery and/or recycling potentials (D), relevant scenario information

NAME	VALUE	UNIT
Net energy benefit from energy recovery from waste treatment declared as exported energy in C3 (R>0.6)		MJ
Net energy benefit from thermal energy due to treatment of waste declared as exported energy in C4 (R<0.6)	1.55	MJ
Net energy benefit from material flow declared in C3 for energy recovery		MJ
Process and conversion efficiencies		
Further assumptions for scenario development (e.g. further processing technologies, assumptions on correction factors);		





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4. Life Cycle Assessment Results

Table 7. Description of the system boundary modules

EPD Type	PRODUCT STAGE			CONSTRUCTION PROCESS STAGE		USE STAGE							END OF LIFE STAGE				BENEFITS AND LOADS BEYOND THE SYSTEM BOUNDARY
	A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	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	Waste processing	Disposal	Reuse, Recovery, Recycling Potential
	X			X	X	MND	X	MND	MND	MND	MND	MND	MND	X	MND	X	X

4.1. Life Cycle Impact Assessment Results

Table 8. North American Impact Assessment Results

TRACI 2.1	A1-A3	A4	A5	B2	C2	C4	D
GWP-total [kg CO2 eq.]	6,69E+00	1,20E+00	5,59E-01	4,80E-01	1,31E-02	1,86E-01	-9,12E-02
GWP-fossil [kg CO2 eq.]	7,07E+00	1,20E+00	5,70E-01	4,81E-01	1,30E-02	1,86E-01	-9,31E-02
GWP-biogenic [kg CO2 eq.]	-3,90E-01	-1,00E-02	-1,10E-02	-1,00E-03	1,00E-04	-1,00E-03	2,10E-03
GWP-LUC [kg CO2 eq.]	5,76E-03	5,57E-03	3,32E-04	2,97E-06	7,55E-06	6,96E-04	-2,42E-04
AP [kg SO2 eq.]	2,58E-02	2,68E-02	1,77E-03	1,57E-03	6,79E-05	9,76E-04	-1,94E-03
EP [kg N eq.]	8,96E-03	9,43E-04	5,23E-04	1,41E-04	5,91E-06	7,19E-04	-5,50E-04
ODP [kg CFC 11 eq.]	5,15E-06	2,32E-15	2,57E-07	1,58E-08	3,98E-17	1,24E-14	-4,19E-15
ADP [MJ, LHV]	2,11E+01	2,11E+00	1,77E+00	1,39E+00	2,54E-02	4,12E-01	-5,27E-02
SFP [kg O3 eq.]	3,06E-01	4,86E-01	2,08E-02	1,96E-02	1,56E-03	1,53E-02	-1,73E-02





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Table 9. EU Impact Assessment Results

CML 2001 - Aug. 2016	A1-A3	A4	A5	B2	C2	C4	D
GWP-total [kg CO2 eq.]	6,76E+00	1,21E+00	5,67E-01	4,83E-01	1,31E-02	1,88E-01	-9,33E-02
GWP-fossil [kg CO2 eq.]	7,14E+00	1,21E+00	5,78E-01	4,84E-01	1,30E-02	1,88E-01	-9,52E-02
GWP-biogenic [kg CO2 eq.]	-3,90E-01	-1,00E-02	-1,10E-02	-1,00E-03	1,00E-04	-1,00E-03	2,10E-03
GWP-LUC [kg CO2 eq.]	5,76E-03	5,57E-03	3,32E-04	2,97E-06	7,55E-06	6,96E-04	-2,42E-04
ADP-elements [kg Sb eq.]	6,42E-05	5,36E-08	3,39E-06	4,44E-07	1,88E-09	5,84E-08	-3,16E-07
ADP-fossil [MJ, LHV]	1,63E+02	1,47E+01	1,32E+01	1,14E+01	1,77E-01	3,06E+00	-4,04E-01
AP [kg SO2 eq.]	2,59E-02	2,52E-02	1,77E-03	1,59E-03	4,93E-05	9,47E-04	-1,71E-03
EP [kg PO4-3 eq.]	5,74E-03	2,68E-03	4,26E-04	1,51E-04	1,31E-05	1,28E-03	-3,66E-04
ODP [kg R11 eq.]	4,37E-06	1,37E-13	2,19E-07	1,45E-08	2,34E-15	7,34E-13	-2,46E-13
POCP [kg ethene eq.]	2,45E-03	8,02E-04	1,90E-04	1,51E-04	-2,17E-05	8,03E-05	-6,94E-05

4.2. Life Cycle Inventory Results

Table 10. EN15804+A2 (EF 3.1) Impact Assessment Results

EN15804+A2 (EF 3.1)	A1-A3	A4	A5	B2	C2	C4	D
GWP-total [kg CO2 eq.]	6,81E+00	1,22E+00	5,71E-01	4,85E-01	1,32E-02	1,89E-01	-9,69E-02
GWP-fossil [kg CO2 eq.]	7,14E+00	1,22E+00	5,60E-01	4,85E-01	1,31E-02	1,89E-01	-5,58E-02
GWP-biogenic [kg CO2 eq.]	-3,36E-01	-7,68E-03	1,12E-02	-4,54E-04	1,02E-04	-5,20E-04	-4,08E-02
GWP-lutuc [kg CO2 eq.]	5,76E-03	5,57E-03	3,32E-04	2,97E-06	7,55E-06	6,96E-04	-2,42E-04
ODP [kg CFC 11 eq.]	5,58E-06	1,16E-13	2,79E-07	1,11E-08	1,99E-15	6,23E-13	-2,09E-13
AP [mole of H+ eq.]	3,02E-02	3,15E-02	2,06E-03	1,87E-03	7,26E-05	1,13E-03	-1,33E-03
EP-freshwater [kg P eq.]	8,61E-04	1,64E-06	5,04E-05	3,79E-06	6,86E-08	1,08E-04	-1,76E-05
EP-marine [kg N eq.]	5,55E-03	7,89E-03	3,75E-04	3,17E-04	3,66E-05	2,43E-04	-4,67E-04
EP-terrestrial [mole of N eq.]	5,73E-02	8,66E-02	3,79E-03	3,23E-03	4,01E-04	2,67E-03	-4,47E-03
POCP [kg NMVOC eq.]	1,90E-02	2,17E-02	1,31E-03	1,18E-03	6,84E-05	7,79E-04	-8,11E-04
ADPE [kg Sb eq.]	3,36E-05	4,80E-08	1,81E-06	9,87E-08	1,78E-09	1,26E-08	-2,58E-07
ADPF [MJ]	1,80E+02	1,47E+01	1,42E+01	1,19E+01	1,79E-01	3,19E+00	-4,36E-01
WDP [m3 world eq.]	8,99E+00	6,71E-03	4,92E-01	1,19E-02	8,07E-04	2,44E-02	-2,23E-02





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Table 11. Resource Use

EN15804+A2 (EF 3.1)	A1-A3	A4	A5	B2	C2	C4	D
PERE [MJ, LHV]	1,33E+01	4,26E-01	1,21E+00	1,70E-01	7,90E-03	4,83E-01	-1,00E+01
PERM [MJ, LHV]	1,03E+01	0,00E+00	9,00E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PERT [MJ, LHV]	2,36E+01	4,26E-01	1,30E+00	1,70E-01	7,90E-03	4,83E-01	-1,00E+01
PENRE [MJ, LHV]	3,23E+01	1,47E+01	8,74E+00	1,19E+01	1,79E-01	3,19E+00	-4,36E-01
PENRM [MJ, LHV]	1,76E+02	0,00E+00	5,46E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PENRT [MJ, LHV]	1,80E+02	1,47E+01	1,42E+01	1,19E+01	1,79E-01	3,19E+00	-4,36E-01
SM [kg]	2,53E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
RSF [MJ, LHV]	8,22E-25	0,00E+00	4,11E-26	0,00E+00	0,00E+00	0,00E+00	-2,55E-03
NRSF [MJ, LHV]	9,65E-24	0,00E+00	4,83E-25	0,00E+00	0,00E+00	0,00E+00	0,00E+00
FW [m3]	2,22E-01	4,81E-04	1,21E-02	2,99E-04	2,62E-05	7,30E-04	0,00E+00

Table 12. Output Flows and Waste Categories

EN15804+A2 (EF 3.1)	A1-A3	A4	A5	B2	C2	C4	D
HWD [kg]	2,12E-07	4,90E-10	1,00E-04	1,26E-10	2,41E-11	7,89E-10	-1,17E-05
NHWD [kg]	2,02E-01	1,71E-03	3,59E-01	5,91E-03	1,78E-05	6,40E+00	0,00E+00
RWD [kg]	3,54E-03	1,99E-05	2,41E-04	1,95E-04	5,38E-07	4,50E-05	0,00E+00
PM [disease incidences]	2,39E-07	5,28E-07	1,66E-08	1,28E-08	4,42E-10	1,17E-08	-7,24E+00
IR [kBq U235 eq.]	9,46E-01	2,80E-03	8,85E-02	1,90E-02	4,55E-05	6,17E-03	-1,08E-10
ETP-freshwater [CTUe]	8,96E+01	1,09E+01	6,88E+00	1,50E+00	1,39E-01	6,91E+00	3,43E-09
HTP-cancer [CTUh]	1,01E-08	2,04E-10	5,46E-10	4,67E-11	2,38E-12	1,03E-10	-2,05E+01
HTP-non cancer [CTUh]	1,46E-07	7,34E-09	8,06E-09	2,24E-09	5,44E-11	2,15E-09	0,00E+00
LU [Pt]	4,17E+01	2,17E+00	2,15E+00	2,74E-02	3,47E-02	5,42E-01	0,00E+00

5. LCA Interpretation

The life cycle impacts of luxury vinyl tiles are driven by the Product Stage and the Impacts from this stage are driven by raw materials.





Interface®

Interface, Inc.
 Sound Choice+
 Modular Resilient Flooring
 4.5 mm LVT

According to ISO 14025,
 EN 15804+A2 and ISO 21930:2017

6. Additional Environmental Information

6.1 Extraordinary Effects

Fire

Table 13. Fire performance characteristics for Sound Choice+

STANDARD	SOUND CHOICE+
EN 13501-1:2018	B _{fl} – s1
EN ISO 9239-1:2010 (smoke development)	158.90%.min
EN ISO 11925-2:2020	No ignition

Water

This product is impervious to water, protecting the subfloor from leaks and spills. Exposure to flooding for long periods may result in damage to the product.

Mechanical Destruction

The product is intended for commercial applications with heavy wear. Performance requires proper installation according to Interface installation guidelines.

Table 14. Performance characteristics for Sound Choice+

EN ISO 10874	SOUND CHOICE+
commercial applications	33 Heavy Commercial
industrial applications	42 General Light Industrial





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