

ENVIRONMENTAL PRODUCT DECLARATION

EPD of multiple products, based on the average results of the product group.

—
AREA
FLOORS

In accordance with ISO 14025:2006 and
EN 15804:2012+A2:2019/AC:2021 for:

SPC Flooring

(with 0.5 wear layer and 0.3 wear layer)

from
Area Floors



PROGRAMME

The International EPD® System
www.environdec.com

PROGRAMME OPERATOR

EPD International AB

GEOGRAPHICAL SCOPE

Global

LICENSEE

EPD Türkiye

EPD REGISTRATION NUMBER

EPD-IES-0025563

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An EPD should provide current information and may be updated if conditions change. The stated validity is therefore subject to the continued registration and publication at: www.environdec.com



Programme Information

Programme Information

Programme: The International EPD® System

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Information about verification and reference PCR:

CEN standard EN 15804 serves as the Core Product Category Rules (PCR)

Product category rules (PCR)

PCR: PCR 2019:14 Construction products (EN 15804:A2) Version 2.0.1

c-PCR-004 Resilient, textile and laminate floor covering (EN 16810:2017)

PCR review was conducted by

The Technical Committee of the International EPD® System. See www.environdec.com/TC for a list of members.

Review chair: Claudia A. Peña, University of Concepción, Chile.

The review panel may be contacted via the Secretariat www.environdec.com/contact.

Independent third-party verification of the declaration and data, according to ISO 14025:2010:

☐

EPD process verification



EPD verification

Third party verifier

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Approved by

International EPD System Technical Commiee,
supported by the Secretariat

Procedure for follow-up of data during EPD validity involves third party verifier:

☐

Yes



No

LCA Study & EPD Design Conducted by

Semtrio Sustainability Consulting

BUDOTEK Teknopark, No 8/27

Ümraniye / İstanbul Türkiye

www.semtrio.com



Area Floors has the sole ownership, liability, and responsibility for the EPD.

EPDs within the same product category but published in different EPD programmes, may not be comparable. For two EPDs to be comparable, they shall be based on the same PCR (including the same first-digit version number) or be based on fully aligned PCRs or versions of PCRs; cover products with identical functions, technical performances and use (e.g. identical declared/functional units); have identical scope in terms of included life-cycle stages (unless the excluded life-cycle stage is demonstrated to be insignificant); apply identical impact assessment methods (including the same version of characterisation factors); and be valid at the time of comparison.

For further information about comparability, see EN 15804 and ISO 14025.

Company Information

Owner of the EPD

Area Floors

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With 30 years of experience in flooring solutions, we embarked on this journey in 2022, driven by an unwavering commitment to excellence. Today, we proudly export our products to numerous countries worldwide.

At our state-of-the-art, 20,000-square-meter production facility, we harness 100% green energy to ensure environmentally responsible manufacturing. Operating at world-class standards, we boast an annual production capacity of 3,000 containers. Every stage of our production process is guided by sustainability principles, reflecting our eco-conscious approach.

Powered by cutting-edge technology, we stand out in the industry with fully automated manufacturing, featuring 7 extrusion lines, 3 profile lines, 3 packaging lines, and 5 IXPE lines. Backed by our expert team and steadfast dedication to quality, we take pride in being one of Türkiye's leading brands in SPC and flooring solutions. With innovative, durable, and aesthetically refined products, we are committed to shaping the future of the industry.

Product-related or management system-related certifications:

- ISO 9001 Quality Management System
- ISO 14001 Environmental Management System
- ISO 45001 Occupational Health and Safety Management System
- CE Compliance (EN 14041)
- FloorScore® Indoor Air Quality Certification

Area Floors: Sustainable Flooring Solutions That Add Value to Life!

PRODUCTION SITE

Ömerli Mahallesi, Ilgaz Sokak, No: 7/1,
Arnavutköy, İstanbul / Türkiye



Product Information

Product Name: SPC Flooring

SPC flooring is a next-generation type of luxury vinyl flooring known for its exceptional durability and waterproof properties. It features a rigid core composed of natural stone powder and PVC, which provides outstanding dimensional stability and impact resistance, while also realistically mimicking the appearance of wood or stone—offering versatile aesthetic options to suit various interior styles.

Thanks to its innovative click-lock installation system and sturdy construction, SPC flooring offers a practical and long-lasting solution for both residential and commercial interiors.

Being 100% waterproof and highly structurally robust, SPC flooring can withstand heavy foot traffic and moisture without sustaining damage.

Production

Area Floors production is carried out on fully automated lines, following a highly precise and sustainable process. The process begins with the homogeneous preparation of PVC, calcium carbonate (limestone), and various additives through automatic dosing and mixing systems. The prepared compound is then transferred to the extrusion line to form the SPC core board.

The decorative film and wear layer are directly applied to the core board through lamination on the extrusion line. This integrated process ensures strong interlayer bonding and a uniform multi-layer structure. Depending on the product type, a surface embossing process may be applied to create texture. The board is then cooled and automatically cut to the target length on the same line.

Next, a UV protective coating is applied to the top surface of the board, enhancing the product's resistance to sunlight and impacts.

Afterward, the boards undergo automatic sizing and click-profile milling processes. To improve sound insulation and flooring comfort, an IXPE acoustic layer is laminated onto the back of the board. This step enhances both product performance and user experience.

In the final stage, panels are packaged using robotic systems and prepared for shipment.

All batches are subjected to physical tests at quality control stations during and after production.

Throughout the process, we prioritize energy and material efficiency, supporting our commitment to environmentally friendly manufacturing.

Intended Use of Product

Where is the product used?

SPC flooring is widely used in both residential and commercial spaces. In homes, it can be safely installed in living rooms, bedrooms, and hallways, as well as wet areas such as kitchens and bathrooms thanks to its water resistance. In commercial settings—such as offices, retail stores, cafes/restaurants, hotels, and schools—where heavy foot traffic and demanding conditions are common, SPC flooring serves as an ideal solution. Its high durability and easy-to-clean surface offer long-lasting performance with minimal maintenance. Additionally, the click-lock installation system allows for quick application in renovation projects, providing significant time and labor savings.



SPC (Stone Plastic Composite) flooring is a multi-layer rigid vinyl flooring product manufactured primarily from polyvinyl chloride (PVC) and calcium carbonate (limestone powder). It may also contain plasticizers, stabilizers, lubricants, and other functional additives.

The product structure typically consists of the following layers:

- SPC Core Layer: Composed of a rigid blend of limestone powder and virgin PVC, providing dimensional stability, strength, and full waterproof performance.
- Printed Film Layer: Delivers aesthetic appearance with high-resolution decorative patterns.
- Transparent Wear Layer (e.g., 0.3 mm – 0.5 mm): Embossed for texture and enhanced durability.
- UV Coating Layer: Provides surface protection against stains, discoloration, and light wear.
- IXPE Foam Backing (optional): An integrated acoustic underlay that improves walking comfort and reduces sound transmission.

Key properties:

- 100% waterproof
- High dimensional stability
- Suitable for underfloor heating
- Low VOC emissions (indoor air quality compliant)
- Click-lock installation system for easy and fast installation
- Fire-resistant and formaldehyde-free



Technical Specification

Property	Standard	Specification
Total Thickness	EN 17539	4+1 and 5+1 and 5+1.5 mm
Wear layer thickness	-	0.30 mm or 0.50 mm
Length	EN 17539	610-750-1220-1520-1524-1820 mm
Width	EN 17539	120-150-182-228-305 mm
Length and width of squared elements	EN 17539	pass
Squareness	EN 17539	≤0.20 mm
Straightness	EN 17539	≤0.30 mm
Flatness crosswise	EN 17539	concave ≤0.15% convex ≤0.20%
Flatness lengthwise	EN 17539	concave ≤0.50% convex ≤1%
Openings	EN 17539	average ≤0.15 mm max ≤0.20 mm
Height difference	EN 17539	average ≤0.10 mm max ≤0.15 mm
Dimensional stability and curl	EN 23999	≤0.15 mm, %1, ≤2 mm

Property	Standard	Specification
Slide resistance	TS EN 13893	DS
Fire behaviour	TS EN 13501-1	Bfl S1
Thermal resistance	EN 12667	0.0311 M2k/W
Thermal Conductivity	EN 12667	0.296 W/(m.K)
Floor heating system	suitable	max 27
Electrostatics behaviour	EN 1815:2016	antistatics floor covering

UN CPC code: 36910 Floor coverings of plastics, in rolls or in the form of tiles

LCA Information

Reference Service Life

>50 years

Declared Unit

1 m² of SPC Flooring manufactured in Area Floors Manufacturing plant in İstanbul (TR).

The conversion factor is 7.707 kg per m² (0.130 m²/kg) based on the product of SPC Flooring.

Time representatives

The production data in this LCA study represents the period of 1st January 2024-31st December 2024

Geographical scope

For modules A1-A3, a global scope has been applied to reflect the sourcing and processing of raw materials, manufacturing, and transportation, as these activities involve international supply chains. Country-specific data for Türkiye has been used to represent the electricity mix used in production processes. In addition, renewable electricity certificates (I-REC) fully allocated to the Area Floors production site were considered. These correspond to biomass solid (forestry by-products & waste).

End-of-life stages (C1-C4) and the benefits and loads beyond the system boundary (module D) have also been modelled using a global approach, considering average global waste treatment technologies and material recovery scenarios.

Database(s) and LCA software used

Ecoinvent v3.10 and Simapro v9.6.0.1

Data quality and data collection

According to EN 15804:2012+A2:2019/AC:2021 specific data was used for module A3 (Processes the manufacturer has influence over) and was gathered from manufacturing plant. Specific data includes actual product weights, amounts of raw materials used, product content, energy consumption, transport figures and amounts of wastes. For secondary data, Ecoinvent v3.10 data sets were used. The results obtained from the study are average values for three types of laminate floorings.

Allocation

The total values for the plant's raw material, energy consumption and waste output over a one-year period have been divided by the annual output of each product to provide a value per square meter of SPC flooring produced.

Cut-off rules

Life Cycle Inventory data for a minimum of 99% of total inflows to the three life cycle stages have been included and a cut-off rule of 1% regarding energy, mass and environmental relevance was applied.



Modules declared, geographical scope, share of specific data (in GWP-GHG indicator) and data variation

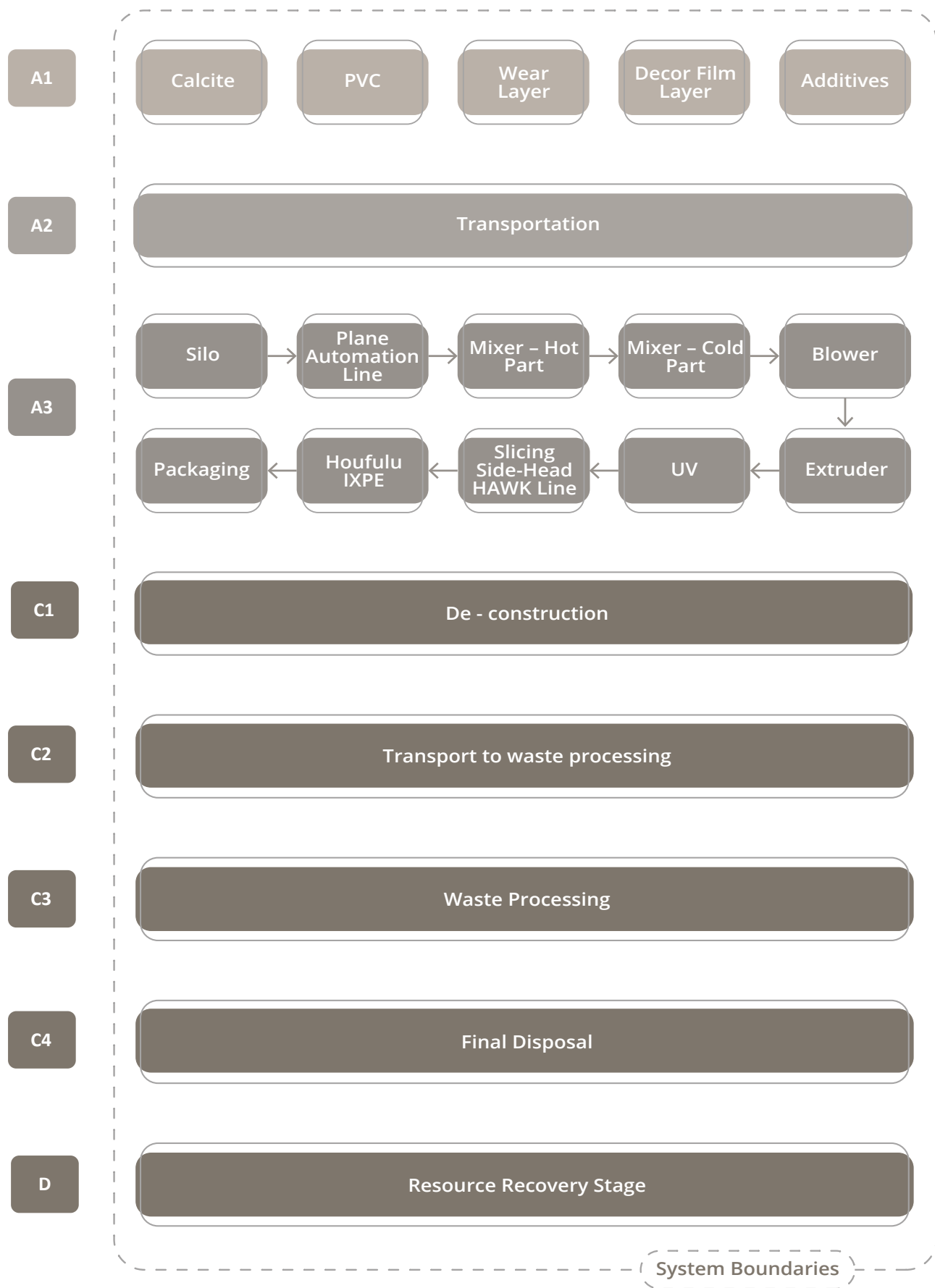
	PRODUCT STAGE		CONSTRUCTION PROCESS STAGE			USE STAGE							END OF LIFE STAGE				RESOURCE RECOVERY STAGE
	Raw material supply	Transport	Manufacturing	Transport	Construction installation	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction demolition	Transport	Waste processing	Disposal	Recycling Potential
MODULE	A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Modules declared	X	X	X	ND	ND	ND	ND	ND	ND	ND	ND	ND	X	X	X	X	X
Geography	GLO	GLO	TR	-	-	-	-	-	-	-	-	-	GLO	GLO	GLO	GLO	GLO
Specific data used	29%				-	-	-	-	-	-	-	-	-	-	-	-	-
Variation – products	< 10%				-	-	-	-	-	-	-	-	-	-	-	-	-
Variation – sites	0%				-	-	-	-	-	-	-	-	-	-	-	-	-

Declaration of data sources, reference years, data categories, and average share of primary data.

Process	Source Type	Source	Reference Year	Data Category	Share of primary data, of GWP-GHG results for A1-A3
Manufacturing of product	Collected data	EPD owner	2024	Primary data	7%
Generation of electricity used in manufacturing of product	Database	Ecoinvent 3.10	2025	Primary data	8%
Transport of raw materials to manufacturing site	Database	Ecoinvent 3.10	2025	Primary data	5%
Production of raw materials	Database	Ecoinvent 3.10	2025	Generic data & Primary data	9%
Total share of primary data, of GWP-GHG results for A1-A3					29%

The share of primary data is calculated based on GWP-GHG results. It is a simplified indicator for data quality that supports the use of more primary data, to increase the representativeness of and comparability between EPDs. Note that the indicator does not capture all relevant aspects of data quality and is not comparable across product categories.

System Diagram



Description of Declared Modules

A1 - Raw Materials Supply

This module takes into account raw material extraction, processing and energy used in the production process.

A2 - Transport to the Manufacturer

This module includes transportation of the raw materials from supplier to factory gate. Transportation types are considered as seaway and roadway.

A3 - Manufacturing

This module includes energy consumption during the manufacturing process. Additionally, packaging materials are covered in this module. Followed production processes are as;

1. Silo
2. Plane Automation Line
3. Mixer - Hot Part
4. Mixer - Cold Part
5. Blower
6. Extruder
7. UV
8. Slicing Side - Head HAWK Line
9. Houfulu IXPE
10. Packaging

Electricity demand in manufacturing is supplied from the Turkish grid (medium voltage). In addition, I-REC certificates allocated to the site were considered for renewable electricity modelling.

C1 - De-construction

The dismantling SPC Flooring has a very low impact considering the impact throughout the life of the installation. It is assumed that, in C1 module environmental impact of de-construction process is not considered in this study.

C2 - Transport to Waste Processing

An average distance of 100 km has been assumed for the transport to sorting facility. Transport is calculated on the basis of a scenario with the parameters described in the attached table.

Parameters C2 Module	
Transport by road*	Lorry. 16-32 metric ton
Distance (km)	100 km
Database	Ecoinvent v3.10

*Technology is Euro 6

C3 - Waste Processing for Reuse, Recovery and/or Recycling

It is assumed that no waste processing is needed after the product reaches its end-of-life.

C4 - Final disposal

The environmental impacts associated with Module C4 (waste disposal) have been calculated accordingly. Although SPC products are theoretically recyclable, an established collection system does not currently exist; therefore, it is assumed that 100% of the product will be sent to landfill after the use phase.

D - Reuse, Recovery or Recycling Potential

The packaging materials used in production are plastic, pallets, and paper. According to the Advancing Sustainable Materials Management: 2018 Fact Sheet published by the U.S. Environmental Protection Agency (2020), 8.7% of plastic materials, 17.1% of pallet (wood) materials, and 68.2% of paper materials are recycled. Module D reports the environmental aspects of recycled and recovered scrap generated at the end of life minus that used at the production stage.



Declared Unit

Name	Value	Unit
Declared Unit	1	m ²
Gammage	7.707	kg/ m ²
Conversion factor to 1 kg	0.130	m ² /kg

Content Declaration

Content Declaration of SPC Flooring

Product content	Mass, kg	Post-consumer recycled material, mass-% of product	Biogenic material, mass-% of product	Biogenic material, kg C/product or declared unit
Calsite	3.81	0%	0	0
Recycled Material	1.33	17%	0	0
Other Material	2.57	0%	0	0
TOTAL	7.71	17%	0	0

* The product does not contain "Candidate List of Substances of Very High Concern (SVHC)" compounds.

Content Declaration of Packaging Material

Product content	Mass, kg	Post-consumer recycled material, mass-% of product	Biogenic material, mass-% of product
Paperboard	0.065	6.5%	0.029
Glue	0.002	<1%	0
Pallet	0.001	<1%	0.001
Film	2.03E-05	<1%	0
PP Ring	2.10E-05	<1%	0
TOTAL	0.068	7%	0

Environmental Information

Potential Environmental Impact

Mandatory Indicators According to EN 15804

Results for 1 m2 of SPC Flooring							
Indicator	Unit		End of Life				Resource recovery stage
			C1	C2	C3	C4	D
		A1-A3 Total	De-construction demolition	Transport	Waste processing	Disposal	Recycling-potential
GWP - fossil	kg CO2 eq.	10.7	0	0.146	0	0.848	-0.231
GWP -biogenic	kg CO2 eq.	1.43	0	0.001	0	0	-0.779
GWP - luluc	kg CO2 eq.	0.011	0	4.89E-05	0	0	-0.001
GWP - total	kg CO2 eq.	12.2	0	0.148	0	0.848	-1.01
ODP	kg CFC 11 eq.	2.20E-07	0	2.89E-09	0	0	-3.88E-09
AP	mol H+ eq.	0.052	0	3.05E-04	0	1.90E-05	-0.002
EP -freshwater	kg P eq.	4.23E-04	0	1.14E-06	0	0	-3.66E-05
EP - marine	kg N eq.	0.010	0	7.14E-05	0	3.67E-04	-4.50E-04
EP-terrestrial	mol N eq.	0.112	0	0.001	0	2.75E-06	-0.005
POCP	kg NMVOC eq.	0.047	0	0.001	0	2.54E-04	-0.002
ADP-minerals&metals*	kg Sb eq.	1.13E-04	0	4.76E-07	0	0	-8.65E-07
ADP-fossil*	MJ	199	0	2.06	0	0	-3.62
WDP	m3	3.26	0	0.012	0	0	-0.198
Acronyms	GWP-fossil = Global Warming Potential fossil fuels; GWP-biogenic = Global Warming Potential biogenic; GWP-luluc = Global Warming Potential land use and land use change; ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential, Accumulated Exceedance; EP-freshwater = Eutrophication potential, fraction of nutrients reaching freshwater end compartment; EP-marine = Eutrophication potential, fraction of nutrients reaching marine end compartment; EP-terrestrial = Eutrophication potential, Accumulated Exceedance; POCP = Formation potential of tropospheric ozone; ADP-minerals&metals = Abiotic depletion potential for non-fossil resources; ADP-fossil = Abiotic depletion for fossil resources potential; WDP = Water (user) deprivation potential, deprivation-weighted water consumption						

* Disclaimer: The results of this environmental impact indicator shall be used with care as the uncertainties of these results are high or as there is limited experience with the indicator.

Potential Environmental Impact

Additional Mandatory and Voluntary Indicators

Results according to PCR2019:14 for 1 m2 of SPC Flooring							
Indicator	Unit		End of Life				Resource recovery stage
			C1	C2	C3	C4	D
		A1-A3 Total	De-construction demolition	Transport	Waste processing	Disposal	Recycling-potential
GWP-GHG[1]	kg CO2 eq.	12.2	0	0.148	0	0.848	-1.01
Results according to EN 15804+A2 for 1 m2 of SPC Flooring							
Indicator	Unit		End of Life				Resource recovery stage
			C1	C2	C3	C4	D
		A1-A3 Total	De-construction demolition	Transport	Waste processing	Disposal	Recycling-potential
PM	[disease inc.]	4.58E-07	0	1.07E-08	0	1.41E-11	-1.31E-08
IRP	[kBq U235 eq]	0.211	0	0.001	0	0	-0.016
ETP-fw	[CTUe]	43.0	0	0.450	0	2.97	-0.898
HT-C	[CTUh]	5.47E-08	0	1.05E-09	0	1.82E-11	-1.00E-09
HT-nc	[CTUh]	2.22E-07	0	2.58E-09	0	3.33E-09	-4.61E-09
SQP	[pt]	153	0	1.24	0	7.22	-68.8
Acronyms	GWP-GHG = Global Warming Potential total excl. biogenic carbon following IPCC AR5 methodology; IRP = Ionizing radiation, human health; ET-freshwater = Eco-toxicity (freshwater); HT-cancer						
	= Human toxicity, cancer effects; HT-non-cancer = Human toxicity, non-cancer effects; SQP = Potential soil quality index (SQP)						

Use of Resources

Results for 1 m2 of SPC Flooring							
Indicator	Unit	A1-A3 Total	End of Life				Resource recovery stage
			C1	C2	C3	C4	D
			De- construction demolition	Transport	Waste processing	Disposal	Recycling- potential
PERE	MJ	31.5	0	0.035	0	0	-13.0
PERM	MJ	0	0	0	0	0	0
PERT	MJ	31.5	0	0.035	0	0	-13.0
PENRE	MJ	214	0	2.19	0	0	-3.83
PENRM	MJ	0	0	0	0	0	0
PENRT	MJ	214	0	2.19	0	0	-3.83
SM	kg	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0
FW	m3	0.868	0	0.002	0	0	-0.041
Acronyms	PERE = Use of renewable primary energy excluding renewable primary energy resources used as raw materials; PERM = Use of renewable primary energy resources used as raw materials; PERT = Total use of renewable primary energy resources; PENRE = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials; PENRM = Use of non-renewable primary energy resources used as raw materials; PENRT = Total use of non-renewable primary energy re-sources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Use of net fresh water						

Waste production and output flows

Waste production

Results for 1 m2 of SPC Flooring							
Indicator	Unit		End of Life				Resource recovery stage
			C1	C2	C3	C4	D
		A1-A3 Total	De-construction demolition	Transport	Waste processing	Disposal	Recycling-potential
Hazardous waste disposed	kg	0	0	0	0	0	0
Non-hazardous waste disposed	kg	8.45E-04	0	0	0	7.71	0
Radioactive waste disposed	kg	0	0	0	0	0	0

Output flows

Results for 1 m2 of SPC Flooring							
Indicator	Unit		End of Life				Resource recovery stage
			C1	C2	C3	C4	D
		A1-A3 Total	De-construction demolition	Transport	Waste processing	Disposal	Recycling-potential
Components for re-use	kg	0	0	0	0	0	0
Material for recycling	kg	0	0	0	0	0	0
Materials for energy recovery	kg	0	0	0	0	0	0
Exported energy, electricity	MJ	0	0	0	0	0	0
Exported energy, thermal	MJ	0	0	0	0	0	0

Abbreviations

Abbreviations	Description
ADP	Abiotic Depletion Potential
AP	Acidification Potential
Bfl S1	Fire Classification - Flooring (EN13501)
CEN	European Committee for Standardization
DS	Dry Slip
E1	Low Formaldehyde Emission
EN	European Norm (Standard)
EN	European Norm
EP	Eutrophication Potential
EPD	Environmental Product Declaration
ET-freshwater	Ecotoxicity – Freshwater
FW	Fresh Water Use
GLB	Global
GPI	General Programme Instructions
GWP	Global Warming Potential
GWP-biogenic	Global Warming Potential – biogenic sources
GWP-fossil	Global Warming Potential – fossil sources
GWP-GHG	Global Warming Potential excluding biogenic carbon
GWP-luluc	Global Warming Potential – land use and land use change
HT-cancer	Human Toxicity – Cancer Effects
HT-non-cancer	Human Toxicity – Non-cancer Effects
IRP	Ionizing Radiation Potential
ISO	International Organization for Standardization
LCA	Life Cycle Assessment
M2K/W	Thermal Resistance Unit
mm	Millimeter
MOQ	Minimum Order Quantity
ND	Not Declared

Abbreviations	Description
ND	No Data
NRSF	Non-renewable Secondary Fuels
ODP	Ozone Depletion Potential
PCR	Product Category Rules
PENRE	Non-renewable Primary Energy (excluding raw materials)
PENRM	Non-renewable Primary Energy (as raw materials)
PENRT	Total Use of Non-renewable Primary Energy
PERE	Renewable Primary Energy (excluding raw materials)
PERM	Renewable Primary Energy (as raw materials)
POCP	Photochemical Ozone Creation Potential
QC	Quality Control
R&D	Research and Development
RSF	Renewable Secondary Fuels
SM	Secondary Materials
SPC	Stone Polymer Composite
SQP	Soil Quality Potential
SVHC	Substances of Very High Concern
TDS	Technical Data Sheet
TR	Turkey
TSE	Turkish Standards Institution
UV	Ultra Violet
W/(m.K)	Thermal Conductivity Unit
WDP	Water Deprivation Potential

Version History

Original Version of the EPD, 2025-09-19

References

ISO 14040: 2021

Environmental management - Life cycle assessment - Principles and framework

ISO 14044: 2021

Environmental management - Life cycle assessment - Requirements and guidelines

ISO 14025: 2010

Environmental labels and declarations - Type III environmental declarations - Principles and procedures

ISO 14020: 2000

Environmental labels and declarations - General principles

EN 15804:2012+A2:2019/AC:2021

Sustainability of construction works - Environmental product declarations - Core rules for the product category of construction products

c-PCR-004

Resilient, textile and laminate floor covering (EN 16810:2017)

The International EPD® System

www.environdec.com

The International EPD® System

General Programme Instructions v5.0

The International EPD® System

PCR 2019:14 Construction products v2.0.1 (EN 15804:2012+A2:2019/AC:2021)

Ecoinvent 3.10

www.ecoinvent.org

SimaPro LCA Software

www.simapro.com

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