

Environmental Product Declaration

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

Sealed Air® Brand Cellu-Cushion® E Sill Seal

From



Programme:	The International EPD System, www.environdec.com
Programme operator:	EPD International AB
Licensee:	Not applicable
Type of EPD:	Cradle to gate with options (modules A1-A3, A5, C1-C4 and module D)
EPD registration number:	EPD-IES-0027319:001
Publication date:	2025-12-22
Valid until:	2030-12-18
<i>An EPD may be updated or depublished if conditions change. To find the latest version of the EPD and to confirm its validity, see www.environdec.com</i>	

EPD of multiple products (SDFENATUVI5, SDFENATUVI10) based on SDFENATUVI5 as the highest impact product (worst-case).



GENERAL INFORMATION

Programme Information	
Programme:	The International EPD® System
Address:	EPD International AB - Box 210 60 SE-100 31 Stockholm Sweden
Website:	www.environdec.com
E-mail:	support@environdec.com

Product Category Rules (PCR)
CEN standard EN 15804 serves as the Core Product Category Rules (PCR)
Product Category Rules (PCR): CEN standard EN 15804 serves as the Core Product Category Rules (PCR) PCR 2019:14 Construction products, ver. 2.0.1 dated 2025-06-05
PCR review was conducted by: Greendesk, IVL Swedish Environmental Research Institute, Secretariat of the International EPD System, CTME, Concrete NZ, Monk Spaces, Aquafil SpA

Third-party Verification
Independent third-party verification of the declaration and data, according to ISO 14025:2006, via:
☒ EPD process certification* without a pre-verified LCA/EPD tool Third-party verifier: DNV Business Assurance Italia S.r.l. is an approved certification body accountable for third-party verification Accredited by: ACCREDIA (Registration number 008H rev.01)
*EPD process certification involves an accredited certification body certifying and periodically auditing the EPD process and conducting external and independent verification of EPDs that are regularly published. More information can be found in the General Programme Instructions on www.environdec.com .
Procedure for follow-up of data during EPD validity involves third party verifier:
☐ Yes ☒ No

The EPD owner 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.

INFORMATION ABOUT EPD OWNER

Owner of the EPD: Sealed Air Corporation

Address: 2415 Cascade Pointe Boulevard, Charlotte, NC 28208

Contact: Laura Passerini

Address and contact information of the LCA practitioner:

Laura Passerini, via Trento 7, 20017, Passirana di Rho (MI), Italy
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Description of the organization:

Sealed Air Corporation is a leading global provider of packaging solutions that integrate high-performance materials, sustainability, automation, equipment and services. The Company designs, manufactures and delivers packaging solutions that preserve food, protect goods and automate packaging processes. The solutions are delivered to an array of end markets including fresh proteins, foods, fluids and liquids, medical and life science, e-commerce retail, logistics and omnichannel fulfillment operations, and industrials.

More info at: <https://www.sealedair.com/company/our-company/who-we-are>

Product-related or management system-related certifications:

ISO9001: 2015 - Manufacturing and distribution of packaging materials such as bubble plastic, foam plastic, and other protective packaging and insulation solutions tailored to specific industries and applications.

EN15343: 2007 - Recycling process certificate.

EN15343: 2007 – Recycled plastic traceability certificate.

PRODUCT INFORMATION

Product name: Cellu-Cushion® E Sill Seal

UN CPC code: 3691 - Floor coverings of plastics, in rolls or in the form of tiles, wall or ceiling coverings of plastics.

This EPD covers multiple products (SDFENATUVI5, SDFENATUVI10) and it is based on SDFENATUVI5 as the highest impact product (worst-case).

Product description:

Cellu-Cushion® E Sill Seal is a high performance closed cell foam material impervious to most chemicals and performs consistently over a wide range of temperatures.

Sill Seal is installed between the wood and the concrete to protect it from moisture going up the wall and to seal the gap from drafts.



Name and location of production site:

Sealed Air Svenska AB, Patorpsvagen 2, S-578 33 Aneby (Sweden)

Physical Properties	Test Method	Unit	Value
Nominal Density	ASTM D3575-08 Suffix W ISO 845: 2006	Kg/m ³	24
Compressive Strength 25% (4th compression)	DIN 53577	KPa	28
50% (4th compression)			83
70% (4th compression) (100mm/min compression speed)			200
Compression Set	ASTM D3575-08 Suffix B 50% compression	%	<10
Compressive Creep (1 psi - 7 kg/dm ²)	ASTM D-3575-08 Suffix BB 168 hrs	%	<10
Cell Size	BS 4443/1 Met.4	Cells/25 mm	≥ 21
Tensile Strength @ Peak (MD/CD)	ASTM D3575-08 Suffix T ISO 1798: 2008	KPa	180 150
Tensile Elongation (MD/CD)	ASTM D3575-08 Suffix T ISO 1798: 2008	%	67 52
Thermal Stability (24hrs at 70 °C)	ASTM D3575-08 Suffix S ISO 2796	%	<2
Water Absorption (after 24 hours)	ASTM D3575-08 Suffix L ISO 2896: 1986	Volume %	<2
Tear Strength (MD/CD)	ASTM D3575-08 Suffix G	N/cm	17 14
Thermal Conductivity	ASTM C-177 ISO 8301	W/mK	0,055

CONTENT DECLARATION

Declared unit: 1 m³ of product

Mass per declared unit: 24 Kg (the weight of 1 m³ corresponds to the reference flow)

Reference Flow: 24 Kg/m³ (density)

All Sill Seal E products contain 98% of PE and 2% additives. This EPD is based on SDFENATUVI5 as the highest impact product (worst-case).

Product content	Mass, kg	Post-consumer recycled material, mass-% of product	Biogenic material, mass-% of product	Biogenic material, kg C/ declared unit
PE	23.6	0	0	0
Additives	0.4	0	0	0
TOTAL	24	0	0	0

Packaging materials	Mass, kg	Mass-% (versus the product)	Biogenic material, kg C/ declared unit
Cardboard core	0.88	3.7	0.64
Plastic bag	0.84	3.6	0
TOTAL	1.72	7.3	0.64

1 kg biogenic carbon in the product/packaging is equivalent to the uptake of 44/12 kg of CO₂.

Biogenic content leaving the system in module A5, during packaging disposal, is balanced out already in module A1.

SVHC declaration

Cellu-Cushion® E Sill Seal is not produced with intentional addition of Substances of Very High Concern (SVHC), update of 5th Nov 2025, and therefore SVHC are not expected to be present above 0.1% threshold in the product.

LCA INFORMATION

Declared unit	1 m³ of product having the weight of 24 Kg. The weight of 1 m ³ corresponds to the reference flow.
System boundaries	cradle to gate with options (modules A1-A3, A5, C1-C4 and module
Time representativeness	product specific data for 2024, based on one-year averaged manufacturing data.
Geographical scope	production (A1-A3) in Sweden, A5, C1-C4 and D represent a European scope.
Database(s) and LCA software	Ecoinvent v3.11 database and SimaPro v10.2 Note: EN 15804 reference package based on EF 3.1 has been used

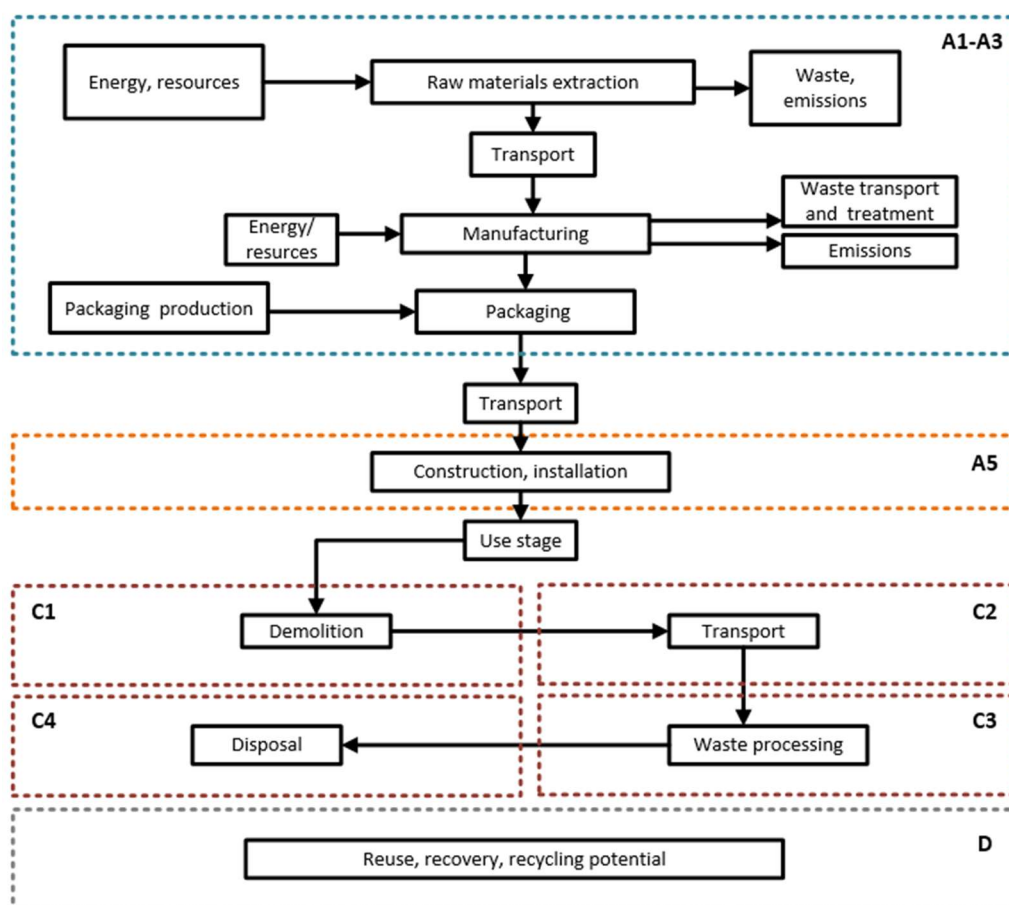


A1: - Extraction and processing of raw materials. - Reuse of products or materials from a previous product system. - Processing of secondary materials - Generation of electricity, steam and heat from primary energy resources, - Transport of resources to refinement. - Refinement of resources and polymers production. - Energy recovery and other recovery processes from secondary fuels. A2: - Transportation up to the factory gate and internal transport.	A3:  - Production of ancillary materials or pre-products. - All the manufacturing processes necessary to generate the product, including - extrusion, printing, perforation, winding - scrap and waste handling. - Electricity used in manufacturing processes. - Warehousing, storage and handling of materials, storage and packaging of final product. - Maintenance of equipment. - Packaging manufacturing. - Processing up to the end-of-waste state or disposal of final residues including any packaging not leaving the factory gate with the product. The EoW status of manufacturing waste entering internal recycling process is audited by 3rd party and certified according to EN15343. A5: - Construction, installation (only packaging disposal).	C1: - Deconstruction, including dismantling or demolition, of the product from the building, including initial on-site sorting of the materials. C2: - Transportation of waste to final disposal. C3: - Waste processing for reuse, recovery and/or recycling. C4: - Disposal.	D: Benefits and loads beyond the product system boundary.
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The technical system does not include:

- Manufacturing production equipment, buildings, and other capital goods.
- Business travel of personnel.
- Travel to and from work by personnel.

Process flow diagram:



More information:

Allocation procedures	Data from direct measures were used. Mass allocation applied for input/output processes linked to Sealed Air activities not coming from direct measures.
Primary data	All the primary data were collected for the production year 2024 in the manufacturing site of Aneby (Sweden) and refer the technology used in that year. LCI data shall according to EN 15804 include a minimum of 95% of total inflows (mass and energy) per module (e.g. A1-A3, A5, C1-C4 and module D).
Energy mix used for core phase	Renewable mix from hydropower certified by Supplier. GWP-GHG of the electricity mix: 0.0209 KgCO ₂ eq/kWh.
Proxy data:	proxy data, do not exceed 10% of the overall environmental impact, as per PCR of reference.
Cut-off	elementary flows to and from the product system contributing to a minimum of 99% of the declared environmental impacts are included (no processes within the boundaries are excluded).

Data Quality Assessment

The quality and representativeness of all data used for the EPD have been evaluated in terms of time, geography, and technology. All relevant datasets were reviewed for completeness, consistency, and reliability, and the quality assessment confirmed their quality from “good” to “very good”.

In alignment with the PCR requirements, all the primary data concerning material production, input, output, process yields, composition, internal logistic and plant services are site-specific.

For the upstream processes and disposal processes, representative secondary data were used from Ecoinvent database.

Data availability allows to cover at least 99% of the mass and the flows relevant to this assessment, as requested by the PCR of reference.

Modules declared, geographical scope, and data variation (in GWP-GHG results):

	Product stage			Distribution/ installation stage		Use stage							End-of-life stage				Beyond product life cycle
	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	Reuse-Recovery- 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	X	ND	ND	ND	ND	ND	ND	ND	X	X	X	X	X
Geography	GLO	GLO	SE	-	EU27	-	-	-	-	-	-	-	EU27	EU27	EU27	EU27	EU27
Share of primary data	6%					-	-	-	-	-	-	-	-	-	-	-	-
Share of representative secondary data	93%																
Variation – products*	3%					-	-	-	-	-	-	-	-	-	-	-	-
Variation – sites**	0%					-	-	-	-	-	-	-	-	-	-	-	-

Modules/processes/life-cycle stages declared shall be noted with “X”.

Modules/processes/life-cycle stages not declared shall be marked as “ND”.

*This is the maximum GWP-GHG difference between the different products and/or the same products produced at various manufacturing sites. Where there is only one site the default value of 0% is presented.

**A variation of 0% shall be reported in EPDs of one product or site.

Source and share of primary data (in GWP-GHG results A1-A3)

The total share of primary data contributing to the declared GWP-GHG results of modules A1-A3 (A1-A5 for services) are declared as per PCR guidance.

Process	Source type	Source	Reference year	Data category	Share of primary data, of GWP-GHG results for A1-A3
Generation of electricity used in manufacturing of product	Supplier certificate	Ecoinvent 3.11	2024	Primary data	1%
Raw materials production	Database	Ecoinvent 3.11	<3 years old	Representative secondary data	88%
Manufacturing process	Collected data	EPD owner	2024	Primary data	0.02%
Transport from suppliers	Database; collected data	Ecoinvent 3.11	<3 years old	Primary data	5%
Production of packaging materials	Database	Ecoinvent 3.11	<3 years old	Representative secondary data	5%
Other processes	Databases	Ecoinvent 3.11	<3 years old	Secondary data	1%
Total share of primary data, of GWP-GHG results for A1-A3					6%
Total share of representative secondary data, of GWP-GHG results for A1-A3					93%

Downstream stages

Construction/installation stage A5 contains the disposal of the shipping packaging only.

The PE bag scenario is built according to Plastics Europe data: 37.8% recycling, 44.9% Incineration, 17.3% landfill.

Cardboard core disposal scenario (scenario for Paper EU: 82.3% recycling, 8% incineration, 9.7% landfill) is taken from the study “*Replacing plastic with corrugated cardboard: A carbon footprint analysis of disposable packaging in a B2B global supply chain-A case study*”

<https://www.sciencedirect.com/science/article/pii/S0921344923000083>

Product end-of-life treatments. At the end of its life, at building demolition, Sill Seal is generally disposed of with no recycling or recovery. For this reason, module D in the EPD is zero. This process is done without the use of energy, so no input is required.

The product at the end of its life is sent to landfill for demolition materials with appropriate waste code from demolition.

A market scenario for Construction was selected from database, *Waste plastic plaster, for final disposal {CH}| market for waste plastic plaster, for final disposal | Cut-off, U* which reports 100% landfill.

D module contains benefits from recycling and energy recovery for packaging. The values are calculated considering quality parameters from PEF (Annex C v2.1 May2020).

Impact categories, indicators and characterization models

In accordance with the objective of the study, the impact assessment methodologies are those prescribed by the GPI 5 and the reference PCR, reported on the Program Operator's website www.environdec.com.

Impact category	Characterization factor	References
Acidification potential (mol H ⁺ eq.)	AP, accumulated exceedance, EN 15804. Version: Feb 2023	Seppälä et al. 2006, Posch et al. 2008
Eutrophication potential (EP) aquatic freshwater (kg P eq)	EP, aquatic freshwater, EUTREND model, EN 15804. Version: Feb 2023.	Struijs et al. 2009 as implemented in ReCiPe
Eutrophication potential (EP) aquatic marine (kg N eq)	EP, aquatic marine, EUTREND model EN 15804. Version: Feb 2023	Struijs et al. 2009 as implemented in ReCiPe
Eutrophication potential (EP) terrestrial, accumulated exceedance (mol N eq; Kg N eq)	EP, terrestrial, accumulated exceedance, EN 15804. Version: Feb 2023	Struijs et al. 2009 as implemented in ReCiPe
Global warming potential - Fossil (kg CO ₂ eq.) (GWP-fossil)	GWP100, EN 15804. Version: EF 3.1, February 2023.	IPCC (2021)
Global warming potential - Biogenic (kg CO ₂ eq.) (GWP-Biogenic)	GWP100, EN 15804. Version: EF 3.1, February 2023.	IPCC (2021)
Global warming potential – LU and LUC (kg CO ₂ eq.) (GWP-LU and LUC)	GWP100, EN 15804. Version: EF 3.1, February 2023.	IPCC (2021)
Global warming potential - Total (kg CO ₂ eq.) (GWP-Total)	GWP100, EN 15804. Version: EF 3.1, February 2023.	IPCC (2021)
GWP-GHG	The indicator is identical to GWP-total except that the CF for biogenic CO ₂ is set to zero	GWP100, EN 15804. Version: EF 3.1, February 2023.
Photochemical ozone creation potential (POCP) (kg NMVOC eq)	POCP, LOTOS-EUROS as applied in ReCiPe, EN 15804. Version: Feb 2023	Van Zelm et al. 2008, ReCiPe 2008
Ozone depletion potential (ODP) (kg CFC 11 eq.)	ODP, EN 15804. Version: Feb 2023	WMO 2014
Water Deprivation potential (WDP) (m ³ H ₂ O eq)	Water deprivation (Available water remaining (AWARE) method), EN 15804.	Boulay et al(2017)
Abiotic depletion potential (ADP) for minerals and metals (non-fossil resources) (Kg Sb eq)	ADP minerals & metals, EN 15804. Version: Feb 2023	Guinée et al. 2002, van Oers et al. 2002, CML 2001 baseline (Version: January 2016)
Abiotic depletion potential (ADP) for fossil resources (MJ)	ADP fossil resources, EN 15804. Version: August 2021.	Guinée et al. 2002, van Oers et al. 2002, CML 2001 baseline (Version: January 2016)

ENVIRONMENTAL PERFORMANCE

LCA results of the product(s) - main environmental performance results

Mandatory impact category indicators according to EN 15804

Results per 1 m ³								
Indicator	Unit	A1-A3	A5	C1	C2	C3	C4	D
GWP- total	kg CO ₂ eq.	5.96E+01	2.00E+00	0.00E+00	1.55E-01	0.00E+00	2.74E-01	-1.02E+00
GWP-fossil	kg CO ₂ eq.	5.70E+01	1.21E+00	0.00E+00	1.52E-01	0.00E+00	2.62E-01	-9.81E-01
GWP-biogenic**	kg CO ₂ eq.	-4.81E-01	7.64E-01	0.00E+00	1.46E-05	0.00E+00	1.04E-04	1.25E-02
GWP- luluc	kg CO ₂ eq.	3.55E-01	6.31E-06	0.00E+00	1.69E-05	0.00E+00	6.51E-05	4.70E-04
ODP	kg CFC 11 eq.	1.25E-07	3.85E-11	0.00E+00	4.65E-11	0.00E+00	1.30E-10	-1.97E-09
AP	mol H ⁺ eq.	1.96E-01	1.99E-04	0.00E+00	7.89E-04	0.00E+00	1.45E-03	-9.85E-04
EP-freshwater	kg P eq.	1.47E-02	2.32E-06	0.00E+00	2.90E-06	0.00E+00	1.61E-05	5.27E-04
EP- marine	kg N eq.	6.73E-02	1.79E-04	0.00E+00	3.44E-04	0.00E+00	6.00E-04	3.17E-03
EP-terrestrial	mol N eq.	4.89E-01	9.48E-04	0.00E+00	3.77E-03	0.00E+00	6.55E-03	-3.75E-03
POCP	kg NMVOC eq.	3.31E+00	2.87E-04	0.00E+00	1.51E-03	0.00E+00	2.39E-03	-7.66E-03
ADP-minerals&metals*	kg Sb eq.	3.03E-04	3.32E-08	0.00E+00	1.01E-07	0.00E+00	5.39E-07	-1.16E-07
ADP-fossil*	MJ	2.51E+02	4.70E-02	0.00E+00	6.48E-02	0.00E+00	3.97E-01	3.60E+00
WDP*	m ³	4.26E+01	-2.83E-02	0.00E+00	3.08E-03	0.00E+00	-6.39E-03	-9.42E-01
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 on these results are high or as there is limited experienced with the indicator. The estimated impact results are only relative statements, which do not indicate the endpoints of the impact categories, exceeding threshold values, safety margins and/or risks.

The results of the end-of-life stage (modules C1-C4) should be considered when using the results of the product stage (modules A1-A3).

** Biogenic content leaving the system in module A5, during packaging disposal, is balanced out already in module A1.

Additional mandatory and voluntary impact category indicators

Results per 1 m ³								
Indicator	Unit	A1-A3	A5	C1	C2	C3	C4	D
GWP-GHG ¹	kg CO ₂ eq.	5.75E+01	1.33E+00	0.00E+00	1.52E-01	0.00E+00	2.62E-01	-9.68E-01

¹ This indicator accounts for all greenhouse gases except biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product. As such, the indicator is identical to GWP-total except that the CF for biogenic CO₂ is set to zero.

Resource use indicators

Results per 1 m ³								
Indicator	Unit	A1-A3	A5	C1	C2	C3	C4	D
PERE	MJ	2.21E+02	9.90E-01	0.00E+00	8.49E-03	0.00E+00	1.37E-01	2.99E-02
PERM	MJ	1.23E+01	-1.11E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PERT	MJ	2.33E+02	-1.01E+01	0.00E+00	8.49E-03	0.00E+00	1.37E-01	2.99E-02
PENRE	MJ	2.51E+02	4.70E-02	0.00E+00	6.48E-02	0.00E+00	3.97E-01	3.59E+00
PENRM	MJ	1.11E+03	-3.15E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PENRT	MJ	1.36E+03	-3.14E+01	0.00E+00	6.48E-02	0.00E+00	3.97E-01	3.59E+00
SM	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	m ³	7.29E-01	-5.72E-04	0.00E+00	1.02E-04	0.00E+00	-1.58E-02	-5.78E-03
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 indicators

Results per 1 m ³								
Indicator	Unit	A1-A3	A5	C1	C2	C3	C4	D
Hazardous waste disposed	kg	7.46E+00	2.41E-06	0.00E+00	1.37E-05	0.00E+00	3.36E-05	-9.19E-04
Non-hazardous waste disposed	kg	1.75E-03	1.75E+00	0.00E+00	9.31E-03	0.00E+00	2.41E+01	1.49E-01
Radioactive waste disposed	kg	0.00E+00	5.83E-08	0.00E+00	1.37E-07	0.00E+00	1.62E-06	3.80E-05

Output flow indicators

Results per 1 m ³								
Indicator	Unit	A1-A3	A5	C1	C2	C3	C4	D
Components for re-use	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Material for recycling	kg	1.53E-01	1.04E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for energy recovery	kg	0.00E+00	4.53E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exported energy, electricity	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exported energy, thermal	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

ABBREVIATIONS

Abbreviation	Definition
General Abbreviations	
EN	European Norm (Standard)
EF	Environmental Footprint
GPI	General Programme Instructions
ISO	International Organization for Standardization
CEN	European Committee for Standardization
CPC	Central product classification
GRI	Global Reporting Initiative
SVHC	Substances of Very High Concern
ND	Not Declared

REFERENCES

- ISO 14040:2006, Environmental Management - *Life Cycle Assessment - Principles and Framework* International Organization for Standardization, Geneva, Switzerland.
- ISO 14040:2006/AMD 1:2020 - Environmental management — *Life cycle assessment — Principles and framework — Amendment 1*, International Organization for Standardization, Geneva, Switzerland
- ISO 14044:2006. Environmental Management - *Life Cycle Assessment – Requirements and Guidelines*, International Organization for Standardization, Geneva, Switzerland.
- ISO 14044:2006/AMD 1:2017, Environmental Management - *Life Cycle Assessment - Requirements and Guidelines - Amendment 1 2017* International Organization for Standardization, Geneva, Switzerland.
- ISO 14044:2006/AMD 2:2020, Environmental Management - *Life Cycle Assessment - Requirements and Guidelines - Amendment 2 2020*, International Organization for Standardization, Geneva, Switzerland.
- ISO 14025:2006, Environmental labels and declarations - *Type III environmental declarations – Principles and procedures*, ISO 14025:2006, International Organization for Standardization, Geneva, Switzerland.
- ILCD handbook, International Reference Life Data System, General guide for Life Cycle Assessment –Detailed guidance, JRC European Commission
- PCR 2019:14 Construction products, ver. 2.0.1 dated 2025-06-05, www.environdec.com
- General Programme Instructions for the International EPD® System. Version 5.0.1, dated 2025-02-27. www.environdec.com
- Central Product Classification (CPC) Series M No. 77, Ver.2.1
- A Whopping Ninety-Five Percent of Wooden Pallets are Recycled, Studies Show -By Laszlo Horvath, PhD, Brad Gething, PhD, and Phil Araman
<https://www.palletcentral.com/page/LandfillAvoidance#:~:text=A%20Whopping%20Ninety%2DFive%20Per cent,Pallets%20are%20Recycled%2C%20Studies%20Show>
- Carbon Footprint of Cartons in Europe – Carbon Footprint methodology and biogenic carbon sequestration” from IVL (Swedish Environmental Research Institute)
https://www.procarton.com/files/file_manager/press_0810/carton_carbon.pdf.
- <https://plasticseurope.org/knowledge-hub/the-circular-economy-for-plastics-a-european-analysis-2024/>
- <https://www.rilegno.org/rapporto-2023/>
- https://www.cepi.org/wp-content/uploads/2021/07/WEB-PAGES_EPRC-Monitoring-Report-2020_202107
- <https://www.cepi.org/wp-content/uploads/2022/07/Key-Statistics-2021-Final.pdf>
- <https://eplca.jrc.ec.europa.eu/EFtransition.html>

VERSION HISTORY

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