Environmental Product Declaration

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

Wooden doors

from

Vakaru mediena TORSO

Programme:	The International EPD® System, www.environdec.com
Programme operator:	EPD International AB
EPD registration number:	EPD-IES- 0024427
Publication date:	2025-05-30
Valid until:	2030-05-29

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

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:	info@environdec.com

Accountabilities for PCR, LCA and independent, third-party verification
Product Category Rules (PCR)
CEN standard EN 15804 serves as the Core Product Category Rules (PCR)
Product Category Rules (PCR): *PCR 2019:14 Construction products (EN 15804:A2) (1.3.4), C-PCR-006 Wood and wood-based products for use in construction (EN 16485:2014) (2021-11-08) and UN 31600: Builders' joinery and carpentry of wood.*
PCR review was conducted by: *IVL Swedish Environmental Research Institute Secretariat of the International EPD® System*
Life Cycle Assessment (LCA)
LCA accountability: *Dr. Ing. Kaspars Zudrags, SIA BM Certification*
Third-party verification
Independent third-party verification of the declaration and data, according to ISO 14025:2006, via: ☒ EPD verification by individual verifier Third-party verifier: *Prof. Vladimír Kočí, PhD, LCA Studio, Czech Republic* Approved by: The International EPD® System
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 registered in different EPD programmes, or not compliant with EN 15804, may not be comparable. For two EPDs to be comparable, they must be based on the same PCR (including the same 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 equivalent system boundaries and descriptions of data; apply equivalent data quality requirements, methods of data collection, and allocation methods; apply identical cut-off rules and impact assessment methods (including the same version of characterisation factors); have equivalent content declarations; 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: JSC „Vakarų mediena TORSO”
Contact: info@torso.lt
Description of the organisation: TORSO - a door manufacturer from Lithuania.
We have been successfully producing interior, exterior and classified doors for Scandinavian countries for more than 25 years.

For additional information about JSC „Vakarų mediena TORSO”, please visit the company website at www.torso.lt.
Product-related or management system-related certifications: The company is committed to responsible manufacturing, adhering to the FSC® Chain of Custody standards to ensure full traceability of its products, from forest to final sale. It holds a valid FSC® certification (SCS-COC-007885), enabling the sale of FSC-certified products.
Name and location of production site(s): JSC „Vakarų mediena TORSO” Medvalakio str. 30, LT 00147 Palanga, Lithuania.

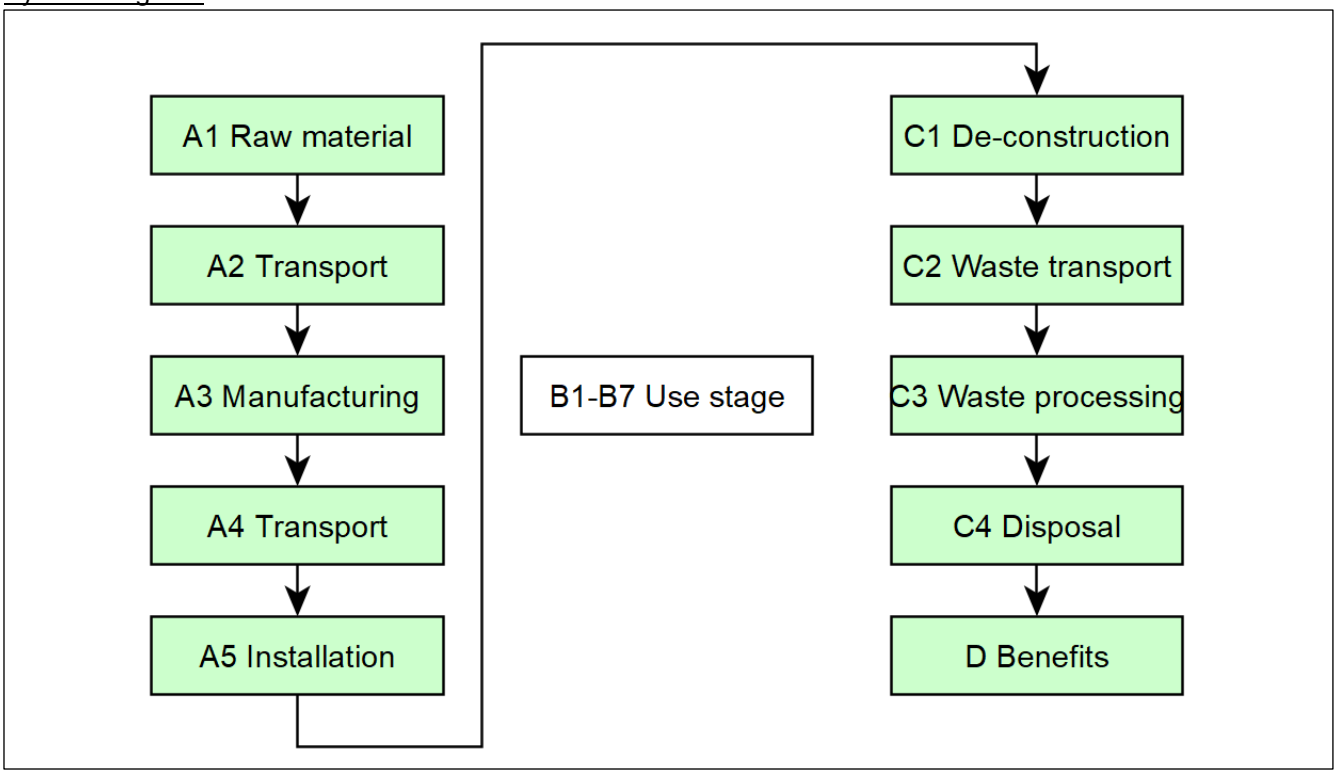
Product information

Product name: Wooden doors.
Product description: Doors for use internally in heated and well-ventilated interior premises.
UN CPC code: 31600: Builders' joinery and carpentry of wood.
Geographical scope: Scandinavia.

LCA information

Declared unit: One piece of doors with dimensions 2040 x 725mm, weight 30 kg.
Reference service life: >50 years.
Time representativeness: 2024.03.01 - 2024.02.29.
Database(s) and LCA software used: One Click LCA, Ecoinvent 3.10.1.
Description of system boundaries: Cradle to gate with options, modules A4, A5, C1–C4, module D (A1–A3, A4, A5, C1-C4, D).

System diagram:



More information: All relevant inputs and outputs from each unit process that have available data are considered in the calculation. No single unit process is disregarded if it accounts for more than 1% of the total mass or energy flows. Additionally, the total neglected input and output flows for each module do not surpass 5% of the energy usage or mass.
EN 15804 reference package EF 3.1.
Target group: business-to-business.
Cut-off criteria: the <1% due to difficulties in attributing and minor environmental impacts.
Electricity climate impact: Residual electricity mix on the market - 0.76 kg CO2 eq./kWh.
Explanation of assumptions regarding modules A4, A5, C and D:
A4: Transport scenarios include EURO 5 truck transport for 100km.
A5: Includes packaging utilisation, installation as negligible.
C1: Deconstruction is assumed as negligible.
C2: Transport to waste treatment site after dismantling using a EURO 5 truck average (100 km assumed).
C3: Assumed that 90% of wood is incinerated with energy recovery, and 95% of steel to recycling.
C4: Assumed that 10% of wood goes to landfill as inert material and 5% of steel goes to landfill as inert material.
D: Modelled as 90% of wood is incinerating with energy recovery, 95% off steel recycling.

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

	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	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	X	X	ND	ND	ND	ND	ND	ND	ND	X	X	X	X	X
Geography	EU												EU				EU
Specific data used	>36%			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variation – products	0%			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variation – sites	0%			-	-	-	-	-	-	-	-	-	-	-	-	-	-

Content information

Product components	Weight, kg	Post-consumer material, weight-%	Biogenic material, weight-% and kg C/kg
Wood	11,1	0	100%, 0.45
Chipboard	17.1	0	100%, 0.4
Glue	0.4	0	-
Paint	0.8	0	-
Metal	0.7	0	-
TOTAL	30.1		
Packaging materials	**Weight, kg**	**Weight-% (versus the product)**	**Weight biogenic carbon, kg C/kg**
Plastic	0.3	1.0	0
Carton	0.2	0.6	0.43
Wood	0.6	2	0.5
TOTAL	1.1.	3.6	

The product does not contain substances that can be included in the "Candidate List of Substances of Very High Concern for REACH Authorisation".

Results of the environmental performance indicators

Mandatory impact category indicators according to EN 15804:2012 +A2:2019

Results per functional or declared unit									
Indicator	**Unit**	**A1-A3**	**A4**	**A5**	**C1**	**C2**	**C3**	**C4**	**D**
GWP-total	kg CO_2 eq.	-1.71E+01	3.22E-01	2.70E+00	0.00E+00	4.75E-01	6.10E+01	2.62E+00	-7.87E+00
GWP-fossil	kg CO_2 eq.	2.94E+01	3.21E-01	3.34E-01	0.00E+00	4.75E-01	4.08E-01	3.49E-02	-7.60E+00
GWP-biogenic	kg CO_2 eq.	-4.70E+01	7.02E-05	2.36E+00	0.00E+00	1.01E-04	6.06E+01	2.59E+00	-2.46E-01
GWP-luluc	kg CO_2 eq.	5.23E-01	1.25E-04	1.86E-05	0.00E+00	2.11E-04	1.27E-04	2.17E-05	-2.18E-02
ODP	kg CFC 11 eq.	1.03E-06	6.71E-09	2.64E-10	0.00E+00	7.20E-09	4.62E-09	8.83E-10	-1.86E-07
AP	mol H^+ eq.	1.66E-01	7.59E-04	1.19E-04	0.00E+00	1.59E-03	4.26E-03	2.39E-04	-4.66E-02
EP-freshwater	kg P eq.	1.61E-02	2.25E-05	4.59E-06	0.00E+00	3.67E-05	1.80E-04	4.16E-05	-6.06E-03
EP-marine	kg N eq.	2.67E-02	1.99E-04	1.16E-04	0.00E+00	5.17E-04	2.21E-03	1.04E-03	-1.17E-02
EP-terrestrial	mol N eq.	3.64E-01	2.15E-03	4.70E-04	0.00E+00	5.62E-03	2.13E-02	9.83E-04	-1.17E-01
POCP	kg NMVOC eq.	1.19E-01	1.32E-03	1.46E-04	0.00E+00	2.36E-03	5.37E-03	3.97E-04	-3.62E-02
ADP-minerals&metals*	kg Sb eq.	6.73E-05	9.20E-07	1.33E-07	0.00E+00	1.33E-06	1.85E-06	7.90E-08	-2.67E-05
ADP-fossil*	MJ	4.72E+02	4.83E+00	2.29E-01	0.00E+00	6.91E+00	3.68E+00	7.53E-01	-1.60E+02
WDP*	m^3	8.54E+01	2.47E-02	1.22E-02	0.00E+00	3.42E-02	8.30E-01	3.61E-03	-3.95E+00
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.*
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 impact categories abiotic depletion of minerals and metals, land use, human toxicity (cancer), human toxicity, noncancer and ecotoxicity (freshwater) may be highly uncertain in LCAs that include capital goods/infrastructure in generic datasets, in case infrastructure/capital goods contribute greatly to the total results. This is because the LCI data of infrastructure/capital goods used to quantify these indicators in currently available generic datasets sometimes lack temporal, technological and geographical representativeness. Caution should be exercised when using the results of these indicators for decision-making purposes.
The results for modules A1-A3 represent 'cradle-to-gate' impacts only. For a complete life cycle assessment, module C (end-of-life) results must be considered.

Additional mandatory and voluntary impact category indicators

Indicator	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
GWP-GHG[1]	kg CO_2 eq.	2.99E+01	3.22E-01	3.34E-01	0.00E+00	4.75E-01	4.09E-01	3.49E-02	-7.63E+00

Resource use indicators

Results per functional or declared unit									
Indicator	**Unit**	**A1-A3**	**A4**	**A5**	**C1**	**C2**	**C3**	**C4**	**D**
PERE	MJ	2.86E+02	7.86E-02	-4.31E+00	0.00E+00	9.59E-02	-4.29E+02	-4.77E+01	-1.11E+02
PERM	MJ	4.26E+02	0.00E+00	-1.78E+01	0.00E+00	0.00E+00	-3.68E+02	-4.08E+01	2.95E+00
PERT	MJ	7.12E+02	7.86E-02	-2.21E+01	0.00E+00	9.59E-02	-7.97E+02	-8.85E+01	-1.08E+02
PENRE	MJ	4.11E+02	4.83E+00	-1.01E+01	0.00E+00	6.91E+00	3.68E+00	7.53E-01	-1.60E+02
PENRM	MJ	7.66E+01	0.00E+00	-1.40E+01	0.00E+00	0.00E+00	-5.64E+01	-6.26E+00	4.64E+00
PENRT	MJ	4.88E+02	4.83E+00	-2.41E+01	0.00E+00	6.91E+00	-5.27E+01	-5.51E+00	-1.55E+02
SM	kg	8.85E-01	2.09E-03	5.36E-04	0.00E+00	2.94E-03	8.41E-03	2.72E-04	8.51E-01
RSF	MJ	9.27E+00	2.63E-05	4.06E-06	0.00E+00	3.74E-05	3.05E-05	6.12E-06	-1.82E-04
NRSF	MJ	1.45E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	m^3	2.61E-01	7.13E-04	-2.43E-04	0.00E+00	1.02E-03	5.19E-03	-1.04E-02	-1.17E-01
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								

[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 CO_2 is set to zero.

Waste indicators

Results per functional or declared unit									
Indicator	**Unit**	**A1-A3**	**A4**	**A5**	**C1**	**C2**	**C3**	**C4**	**D**
HW	kg	1.29E+00	6.99E-03	4.94E-03	0.00E+00	1.16E-02	1.65E-01	1.29E-03	-7.20E-01
NHW	kg	5.77E+01	1.40E-01	7.01E-01	0.00E+00	2.16E-01	2.61E+01	1.43E+01	-3.15E+01
RW	kg	5.12E-03	1.44E-06	2.72E-07	0.00E+00	1.51E-06	1.42E-06	1.82E-07	-9.85E-04
Acronyms	HW = Hazardous waste disposed; NHW = Non-hazardous waste disposed; RW = Radioactive waste disposed								

Output flow indicators

Results per functional or declared unit									
Indicator	**Unit**	**A1-A3**	**A4**	**A5**	**C1**	**C2**	**C3**	**C4**	**D**
Material for recycling	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-01	0.00E+00	1.15E+00
Materials for energy recovery	kg	0.00E+00	0.00E+00	4.12E-02	0.00E+00	0.00E+00	2.53E+01	0.00E+00	2.53E+01
Exported energy, electricity	MJ	0.00E+00	0.00E+00	1.56E-03	0.00E+00	0.00E+00	5.68E+01	0.00E+00	5.79E+01
Exported energy, thermal	MJ	0.00E+00	0.00E+00	4.49E-02	0.00E+00	0.00E+00	7.81E+01	0.00E+00	7.96E+01
Components for re-use	kg	0.00E+00	0.00E+00	6.12E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

References

General Programme Instructions of the International EPD® System. Version 4.0.
PCR 2019:14 Construction products (EN 15804:A2) (1.3.4).
C-PCR-006 Wood and wood-based products for use in construction (EN 16485:2014) (2021-11-08).
ISO 14020:2023 Environmental statements and programmes for products. Principles and general requirements.
ISO 14025:2010 Environmental labels and declarations – Type III environmental declarations. Principles and procedures.
ISO 14040:2006 Environmental management. Life cycle assessment. Principles and frameworks.
ISO 14044:2006 Environmental management. Life cycle assessment. Requirements and guidelines.
EN 15804:2012+A2:2019 Sustainability of construction works - Environmental product declarations - Core rules for the product category of construction products.
EN 16449:2014 Wood and wood-based products - Calculation of the biogenic carbon content of wood and conversion to carbon dioxide.
EN 16485:2014 Round and sawn timber. Environmental Product Declarations. Product category rules for wood and wood-based products for use in construction.
LCA background report 30.05.2025.

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