Environmental Product Declaration

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

Door Portal (1400x2700mm)

with product number 51146

from

Hulåns Snickerifabrik AB

Programme:	The International EPD System, www.environdec.com
Programme operator:	EPD International AB
Type of EPD:	EPD of a single product from a manufacturer
EPD registration number:	EPD-IES-0028476:001
Version date:	2026-02-23
Validity date:	2031-02-23

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

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): *Construction products 2019:14, version 2.0.1, UN CPC code: 316*
PCR review was conducted by: *Not applicable for the c-PCR. For the PCR 2019.14 Construction products (EN15804) (2.0.1) the PCR review was conducted by: The Technical Committee of the International EPD® System. See www.environdec.com for a list of members.* *Review chair: Rob Rouwette (chair), Noa Meron (cochair).* *The review panel may be contacted via the Secretariat www.environdec.com/contact*
c-PCR, if applicable: PCR 2019:14-c-PCR-007 - Windows and doors (EN 17213) – version 1.0.0 (EPD International, 2020)

Third-party Verification
Independent third-party verification of the declaration and data, according to ISO 14025:2006, via: ☐ **Individual EPD verification without a pre-verified LCA/EPD tool** Third-party verifier: *Camilla Landén, Hållbarhetsjouren AB, Sweden* Approved by: 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 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: Hulåns Snickerifabrik AB,
Address: Hulån 42, S-786 92 Dala-Järna, Sweden,
Contact: Maria Bröms,
Mail: Maria.Broms@hulans.se
Phone: +4673-3739598

Address and contact information of the LCA practitioner commissioned by the EPD owner, if applicable:
Miljögiraff AB
Bläsgatan 2, 414 63 Göteborg, Sweden

Theodor Roos, theodor@miljogiraff.se

Description of the organisation:
Hulåns Snickerifabrik was founded in 1945. In the beginning the company was focused on windows and doors, which was delivered to customers all over the country.

If you take a walk in Stockholms Old Town and gaze at the facades, you are likely to still see some of the windows produced in Hulån.

Since the start the company has grown and has also been a part of larger companies such as Finnforest, Eurowand and Moelven. In the 1980´s focus turned to products for public spaces, such as offices, shops and schools.

In 2021 the current owner, Mimir Industries AB, took over and the factory was then the manufacturing division of Modus Sverige AB. As of April 2023, the factory is once again just a factory and produce high quality products under the new-old name Hulåns Snickerifabrik AB. Today we are one of the largest producers of doorportals, doors and glass panels. Our mission is to form tomorrows workplaces with high quality and sustainable products. Pretty much the same thing we have been doing for ages.

Product-related or management system-related certifications:
FSC-C200519, PEFC ST 2002:2020, Chain of Custody of Forest and Tree Based Products, and PEFC ST 2001:2020, PEFC Trademarks Rules

PRODUCT INFORMATION

Product name: Door Portal (1400x2700mm) for office and public spaces
Product identification: Door Portal 51146.

Visual representation of the product:

UN CPC code: 316

Product description: The product consists of dense fields in MDF, and a door frame in solid wood. A doorleaf and belonging components are included as well. The module is preconstructed in the factory and assembled easily on the construction site. See hulans.se for more information or if you want to come in contact with us.

Name and location of production site(s): Hulån 42, S-786 92 Dala-Järna, Sweden.

CONTENT DECLARATION

The following table shows the material content of the Door Portal produced by Hulåns Snickerifabrik AB and the percentage of recycled and biogenic material in the product per m^2 and weight of 34,0 kg. The complete product has the dimensions 1,4m x 2,7m, area of 3,78 m^2, and a weight of 129 kg.

Product components	Mass / m^2 (kg)	Post-consumer recycled material mass-% of product	Biogenic material	
			mass-% of product	kg C / declared unit
Door	14,9	0%	93%	6,10
MDF	13,1	0%	99%	5,71
Wood	5,50	0%	100%	2,42
Metal	0,278	0%	0%	0
Insulation (wood fibres)	0,0805	0%	100%	0,0354
Paper	0,0702	0%	100%	0,0316
Melamine	0,0468	0%	0%	0
Paint	0,0434	0%	0%	0
Adhesive	0,0111	0%	0%	0
Total	34,0	0%	95%	14,3
Packaging materials	**Mass / m^2 (kg)**	**Mass-% (versus the product)**	**Biogenic material**	
			mass-% of product	kg C / declared unit
Pallet (Wood)	4,00	12%	100%	1,76
Struts & Blocks (Wood)	1,60	5%	100%	0,704
Plastic film (PE)	0,272	1%	0%	0,0
Total	5,87	9%	97%	2,46
Hazardous substances from the candidate list of SVHC[1]	**EC No.**	**CAS No.**	**Mass-% per product or declared unit**	
Melamine	203-615-4	108-78-1	0,137%	

1 kg biogenic carbon in the product/packaging is equivalent to the uptake of 44/12 kg of CO_2.

[1] SVHC and the Candidate List of SVHC are available via the European Chemicals Agency Candidate List of substances of very high concern for Authorisation - ECHA (europa.eu)

LCA INFORMATION

Declared unit: 1 m^2 Door Portal, for product with size 1,4 m x 2,7 m (3,78 m^2), and weight of complete element 129 kg (34,0 kg/m^2). Results declared in the EPD are per m^2 of product and can be converted to complete product by multiplying the results with the factor 3,78.
Conversion factor to mass if mass is not used as functional/declared unit (not applicable for services). To convert results from m^2 to kg product one needs to divide the results by 34,0 kg, which corresponds to the weight of product per m^2.
Reference service life: As the products becomes part of the building after installation a specific reference service life will be connected to the overall lifetime of the building. As the product is used in office and public environments, a change in users or use of the facilities can also affect the reference service life. Therefore, the reference service life has been assumed to be 30 years according to EN17213 if the products have been installed and maintained correctly according to guidance of the manufacturer.
Time representativeness: 30 years according to the reference service life.
Geographical scope:
The suppliers of raw material A1 are from Europe and the corresponding transport A2 is thus mainly Sweden and Europe. The manufacturing A3 is located in Dala-Järna, Sweden. Module C and D scenarios are modelled for Sweden.

Database(s) and LCA software used:
Ecoinvent 3.11 and SimaPro.

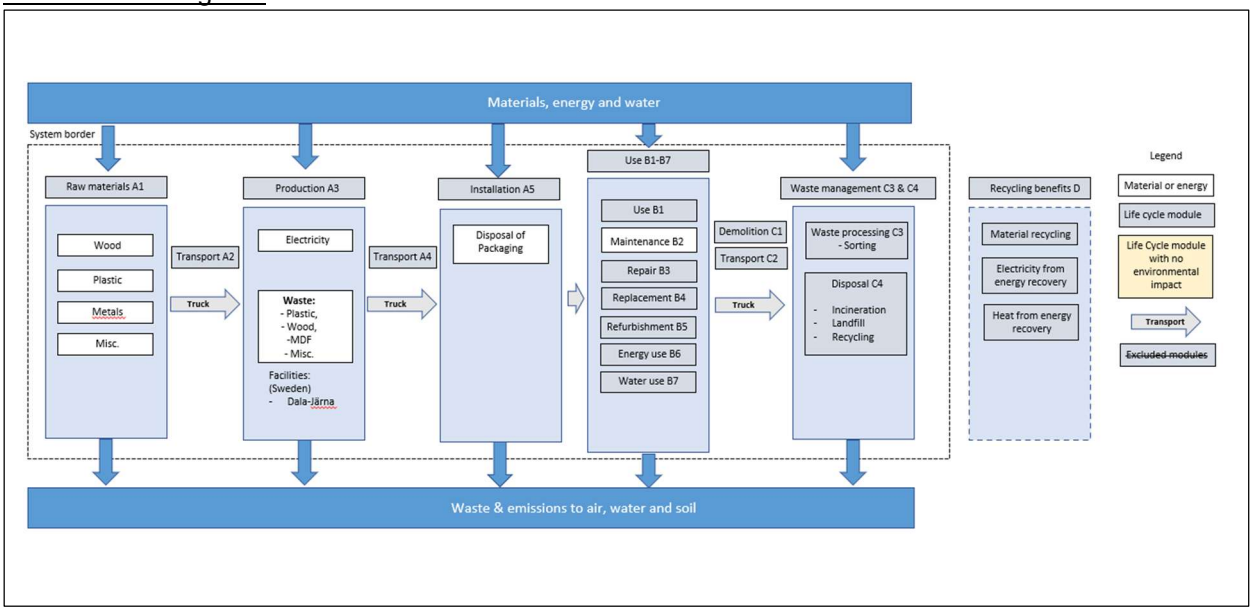
LCIA method:
The LCIA method follows the standard for Construction Products EN 15804:2012+A2:2019/AC:2021. EN 15804:2012+A2:2019/AC:2021 uses the impact categories and characterization factors of the LCIA methods used in Environmental Footprint 3.1 (EF 3.1), with the only difference that biogenic carbon dioxide uptake is calculated as -1 and biogenic carbon dioxide emissions as +1, where EF 3.1 calculates this as 0 and 0, respectively.

Cut-off criteria:
The cut-off criteria established by the PCR is 1% of all material and energy flows to a single unit process and 5% of total inflows (mass and energy) per module. No cut-offs exceeding this limit have been made.

In this study, the infrastructure and capital goods are excluded in the LCA analysis for all parts of the life cycle except for energy generating datasets since infrastructure is an important factor for these datasets.

Description of system boundaries:
Cradle-to-grave and module D (A + B + C + D), type c. The system boundary means that all processes needed for raw material extraction, transport, manufacturing, use and disposal are included in the study.

Process flow diagram:



More information on life cycle:

(A1-A2) Primary data have been gathered by Hulåns Snickerifabrik AB from their main suppliers of the door, MDF and edge strip components in the form of EPDs. The four supplier EPDs were JELD-WEN, *EPD-HUB-0448*, Financiera Madera S.A (FINSA), *EPD-S-P-00273*, Kronospan Polska Sp. Z o.o., *EPD-HUB-1165,* and Hunton Fiber AS, *NEPD-11234-11178*. Suppliers are located in Europe and transport of raw materials are done by truck from suppliers' sites to Hulåns Snickerifabrik AB's manufacturing site in Dala-Järna, Sweden.

(A3) Production of the Door Portal takes place in Dala-Järna, Sweden, which comprises processing of the different components, such as cutting or sawing, milling, polishing, gluing, painting of the outer MDF layers and assembly of the panel wall. These steps of the production are done by machine and require electricity as well as heat. In the factory, heat is derived from wood chips and electricity.

The process generates wood, MDF, paint and plastic wastes which are sorted and sent to waste management facilities to be incinerated or recycled.

Energy use includes electricity from local electricity supplier Dalakraft and dry wood chips for heating. The electricity consists of renewable electricity from wind, hydro and solar which was modelled according to specifications from Dalakraft. The carbon footprint of the electricity mix is *0,0238 kg CO_2-eq per kWh*. All data was obtained for the reference year of 2024 except for energy use at facility, that instead was gathered for the period of September 2024-September 2025 to use the most up-to-date energy data. Energy use per product was allocated based average production time, and share of production specific product is manufactured.

(A4) Finished products are delivered from Dala-Järna to customers, primarily within Sweden, by diesel-powered trucks. Average distance: 300 km. The transport was modelled with the ecoinvent process *Transport, freight, lorry, 7.5-16 metric ton, diesel, EURO 6 {RER}| transport, freight, lorry, 7.5-16 metric ton, diesel, EURO 6 | Cut-off, U,*
Other mandatory information from table 10 from section 7.3.2.1 in EN15804+A2 is declared here:

- Fuel type and amount: diesel, 0,0472 per tkm,
- Capacity utilization: ca 50%
- Bulk density of transported goods: ca 400 kg/m3

- Volume capacity utilization factor: <1

(A5) Installation is assumed to be manual with no direct environmental impacts. Only packaging treatment is considered, following the end-of-life pathways in Module C.

(B1–B7) Modules B1, B3, B4, B5, B6, and B7 are included but have no impact. The Door Portal is passive and require no energy or water during use other than for maintenance which is captured in B2. Assumed that no repair or renovation is needed.

Other mandatory information from table 12 from section 7.3.3.1 in EN15804+A2 is declared here:
(B2) Maintenance:

- Maintenance process & cycle: Door Portal are to be cleaned annually with water and soap, while fittings are to be lubricated annually and should be done continuously during its use phase to maximise the products lifetime.
- Water use per cycle (annual): 0,5 l (0,0005 m^3),
- Soap per cycle (annual): 5 ml,
- Lubricating per cycle (annual): 3 ml.

(C1–C4) After use, the product is transported for waste processing. In the modelling of the end of life of products, default values provided by PCR 2019:14 v.2.0.1 were used for demolition/deconstruction (C1) as no primary data were available or specified by the c-PCR.

(C2) Default values for transport distances to waste treatment was also used, 80 km (non-incinerated) and 130 km (incinerated). Both the transport of non-incinerated and the incinerated material was modelled with the ecoinvent process *Transport, freight, lorry, 16-32 metric ton, diesel, EURO 5 {RER}| transport, freight, lorry, 16-32 metric ton, diesel, EURO 5 | Cut-off, U,*
Other mandatory information from table 10 from section 7.3.2.1 in EN15804+A2 is declared here:

- Fuel type and amount: diesel, 0,0375 per tkm,
- Capacity utilization: ca 50%
- Bulk density of transported goods: ca 400 kg/m3
- Volume capacity utilization factor: <1

Material distribution between recycling, incineration, and landfill follows Annex B, B.3, Figure B.1 in EN 17213. Instead of declaring table 15 from section 7.3.4 in EN15804+A2, the relevant information is included here: The amount of waste collected separately is the entire weight of the product (see content declaration). The amount of materials (in kg) collected for recycling can be found in the indicator “Materials for recycling” in module C3 under the Output flow indicators under the section for Environmental performance. The amount of materials (in kg) collected for energy recovery is 32,1 kg. The amount of materials (in kg) collected for disposal (sanitary landfill) is 1,70 kg.

(D) Module D includes potential benefits and burdens beyond the system boundaries. It relates to recycling and energy recovery of waste generated from production (A3), packaging (A5), and product at end of life (C1-C4). The modelling of module D mirrors the end-of-life defined in Annex B, B.3, Figure B.3 in EN 17213, which declared the material distribution between recycling, incineration, and landfill for timber doorsets.

Data quality summary according to EN 15941:

The EPD is based on data collected by Hulåns Snickerifabrik AB from their site in Dala-Järna, Sweden during 2025 for the reference year 2024 for production data, except for energy that was gathered for the period September 2024 and September 2025 for most up-to-date energy data. The EPD is representative of the production of Door Portals produced in Dala-Järna, Sweden and data are collected directly from supplier and production site. The end-of-life stage of the EPD covers Sweden. The EPD uses background data from the Ecoinvent database v3.11, 2006-2024, and EPD data for the Door and two MDF materials. The two EPDs of EPD-HUB-1165 and EPD-HUB-0448 are published through a different program operator and follows different PCRs than this EPD. This is also true for the EPD NEPD-11234-11178. The EPD of EPD-S-P-00273 however is published by the same program operator but follows an older version of the PCR. This introduces uncertainties in the overall result. EPDs was still used as using representative data for specific materials and suppliers was preferable compared to using generic secondary data, even at a cost of introducing a degree of uncertainty to the results. The quality of the data from EPDs published by the program operator EPD-HUB was deemed to be lower due to the large uncertainties and share of primary data was therefore put to zero as an adjustment. PCRs from EPD Norge harmonize well with PCRs from EPD-International, this EPD was also classified as consisting of zero primary data due to the EPD not declaring it's the share of primary data. The quality of the relevant data used for the EPD in terms of its time, geography and technology representativeness using EN 15804:2012+A2:2019, Annex E, E.1 is "Very good" or "Good". The relevant data assessed included no other "Poor" or "Very poor" data. No processes scored as "Fair" contribute more than 30% of any environmental impact category.

Modules declared, geographical scope, share of primary 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	X	X	X	X	X	X	X	X	X	X	X	X
Geography	EUR	EUR	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE
Share of primary data	11%			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variation – products	0%			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variation – sites	0%			-	-	-	-	-	-	-	-	-	-	-	-	-	-

Process	Source type	Source	Reference year	Data category	Contribution to GWP-GHG result A1-A3 (including raw materials from ecoinvent)	Share of primary data, of GWP-GHG results for A1-A3
Transport of raw materials / components to core manufacturing	Collected data	EPD owner	September 2024-September 2025	Primary data	5%	5%
Core manufacturing	Collected data & Database	EPD owner	2024	Primary data & Representative Secondary data	7%	1%
EPD-HUB-0448	Supplier EPD	JELD-WEN	2021	Representative secondary data	75%	0%
EPD-S-P-00273	Supplier EPD	Financiera Madera S.A (FINSA)	2020	Primary data	5%	5%
EPD-HUB-1165	Supplier EPD	Kronospan Polska Sp. Z.o.o.	2022	Representative secondary data	3%	0%
NEPD-11234-11178	Supplier EPD	Hunton Fiber AS	2024	Representative secondary data	>1%	0%
Other processes	Collected data & Database	EPD owner & Ecoinvent 3.11	2006–2024	Representative Secondary data	6%	0%
Total share of primary data, of GWP-GHG results for A1-A3						11%

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. All processes contributing to more than 10% of each environmental impact have been assessed.

The share of primary data is not declared in EPDs from JELD-WEN and Kronospan Polska Sp. Z.o.o. and therefore, was assumed to be zero to follow conservative approach described in PCR 2019:14, and these two EPDs will therefore be calculated as only consisting of representative secondary data. EPD from FINSA declared >90% primary data which was assumed to be 90%.

ENVIRONMENTAL PERFORMANCE

All results are for the declared unit 1 m^2 of Door Portal with a weight of 34,1 kg, produced by Hulåns Snickerfabrik AB at their site in Dala-Järna, Sweden. The complete product has dimension 1,4m x 2,7m with an area of 3,78 m^2 and total weight of 129 kg. To convert results to complete products one needs to multiply all results with the factor of 3,78, which corresponds to the area of the complete product. 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. See disclaimers below

Mandatory impact category indicators according to EN 15804

Results per m^2 Door Portal with dimensions 1,4m x 2,7m (3,78 m^2)																
Indicator	**Unit**	**A1-A3**	**A4**	**A5**	**B1**	**B2**	**B3**	**B4**	**B5**	**B6**	**B7**	**C1**	**C2**	**C3**	**C4**	**D**
GWP-total	kg CO_2 eq.	-2,7E+00	2,3E+00	9,8E+00	0	1,6E-01	0	0	0	0	0	1,3E-02	6,7E-01	5,1E+01	2,7E+00	-3,7E+00
GWP-fossil	kg CO_2 eq.	5,8E+01	2,3E+00	7,9E-01	0	1,5E-01	0	0	0	0	0	1,3E-02	6,7E-01	7,7E-01	1,6E-02	-3,4E+00
GWP-biogenic	kg CO_2 eq.	-6,1E+01	1,4E-04	9,0E+00	0	2,9E-04	0	0	0	0	0	6,5E-07	2,3E-05	5,0E+01	2,7E+00	-4,9E-02
GWP-luluc	kg CO_2 eq.	3,0E-01	7,9E-04	3,0E-03	0	1,0E-02	0	0	0	0	0	5,3E-07	1,1E-05	2,9E-04	1,5E-06	-2,4E-01
ODP	kg CFC 11 eq.	6,1E-06	6,4E-08	6,2E-08	0	5,0E-09	0	0	0	0	0	2,0E-10	1,5E-08	5,6E-09	5,0E-10	-1,1E-07
AP	mol H^+ eq.	7,2E-01	4,5E-03	7,4E-03	0	8,7E-04	0	0	0	0	0	1,2E-04	1,7E-03	5,4E-03	1,1E-04	-3,2E-02
EP-freshwater	kg P eq.	6,0E-03	1,6E-05	6,0E-05	0	8,5E-06	0	0	0	0	0	1,2E-08	4,1E-07	2,9E-06	8,1E-08	-1,7E-04
EP-marine	kg N eq.	3,1E-01	1,4E-03	3,2E-03	0	2,8E-04	0	0	0	0	0	5,6E-05	6,6E-04	2,8E-03	7,9E-05	-9,0E-03
EP-terrestrial	mol N eq.	2,6E+00	1,3E-02	2,7E-02	0	1,9E-03	0	0	0	0	0	6,2E-04	7,2E-03	2,9E-02	5,3E-04	-1,3E-01
POCP	kg NMVOC eq.	3,2E-01	6,0E-03	3,4E-03	0	1,1E-03	0	0	0	0	0	1,8E-04	2,9E-03	7,4E-03	2,2E-04	-2,8E-02
ADP-minerals&metals*	kg Sb eq.	3,0E-03	7,7E-06	3,0E-05	0	4,3E-07	0	0	0	0	0	4,5E-10	1,8E-08	3,7E-08	7,1E-09	-9,9E-07
ADP-fossil*	MJ	8,6E+02	3,1E+01	9,2E+00	0	3,2E+00	0	0	0	0	0	1,7E-01	8,9E+00	3,6E+00	3,8E-01	-3,2E+02
WDP*	m^3	3,0E+02	7,6E-01	3,0E+00	0	2,8E-01	0	0	0	0	0	1,3E-04	2,9E-03	5,0E-02	-9,7E-03	-4,0E+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 1: The results of the environmental impact indicators Abiotic depletion for fossil and non-fossil resources, Water depletion potential, Ecotoxicity-freshwater, Human toxicity-cancer, Human toxicity-non-cancer and Land use shall be used with care as the uncertainties of these results are high or as there is limited experience with the indicator.

Disclaimer 2: The indicator GWP-GHG includes all greenhouse gases included in GWP-total but excludes biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product. This indicator is thus equal to the GWP indicator originally defined in EN 15804:2012+A1:2013.

Disclaimer 3: The use of the results of modules A1-A3 without considering the results of module C is discouraged.

Disclaimer 4: The indicator Ionising radiation deals mainly with the eventual impact of low dose ionizing radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure nor due to radioactive waste disposal in underground facilities. Potential ionizing radiation from the soil, from radon and from some construction materials is also not measured by this indicator.

Additional mandatory and voluntary impact category indicators

Results per m^2 Door Portal with dimensions 1,4m x 2,7m (3,78 m^2)															
Indicator	**Unit**	**A1-A3**	**A4**	**A5**	**B1**	**B2**	**B3**	**B4**	**B5**	**B6**	**B7**	**C1**	**C2**	**C3**	**C4**	**D**
GWP-GHG[2]	kg CO_2 eq.	5,9E+01	2,3E+00	7,9E-01	0	1,6E-01	0	0	0	0	0	1,3E-02	6,7E-01	7,7E-01	1,2E-01	-3,7E+00
PM	disease inc.	1,1E-05	1,4E-07	1,1E-07	0	9,5E-09	0	0	0	0	0	3,4E-09	4,5E-08	6,7E-08	2,8E-09	-6,3E-07
IR[3]	kBq U-235 eq	6,4E+00	1,9E-02	6,4E-02	0	3,1E-03	0	0	0	0	0	1,4E-05	8,6E-04	1,3E-02	2,3E-04	-1,1E+01
ETP – FW[4]	CTUe	1,8E+03	5,4E+00	1,8E+01	0	1,3E+00	0	0	0	0	0	4,8E-03	3,2E-01	3,7E+00	2,9E-02	-1,0E+01
HTP – C[4]	CTUh	9,3E-07	2,5E-09	9,3E-09	0	1,3E-10	0	0	0	0	0	6,9E-13	4,5E-11	7,3E-10	1,8E-12	-3,1E-09
HTP – NC[4]	CTUh	4,7E-07	1,3E-08	5,9E-09	0	9,4E-10	0	0	0	0	0	1,3E-11	4,5E-09	5,2E-08	2,7E-10	-7,9E-08
Land use, SQP*	Pt	4,2E+03	1,0E+01	4,2E+01	0	1,8E+00	0	0	0	0	0	2,9E-04	1,1E-02	2,2E-01	9,3E-01	-4,4E+02
Acronyms	GWP-GHG: Global Warming Potential, Greenhouse Gases, PM: Particulate Matter, IRP: Ionizing Radiation - Human Health, ETP-FW: Ecotoxicity Potential – Freshwater, HTP-C: Human Toxicity Potential – Cancer, HTP-NC: Human Toxicity Potential – Non-Cancer, SQP: Soil Quality Potential Index.														

[2] 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.

[3] This impact category deals mainly with the eventual impact of low dose ionizing radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure nor due to radioactive waste disposal in underground facilities. Potential ionizing radiation from the soil, from radon and from some construction materials is also not measured by this indicator.

Resource use indicators

Results per m2 Door Portal with dimensions 1,4m x 2,7m (3,78 m2)																
Indicator	**Unit**	**A1-A3**	**A4**	**A5**	**B1**	**B2**	**B3**	**B4**	**B5**	**B6**	**B7**	**C1**	**C2**	**C3**	**C4**	**D**
PERE	MJ	2,0E+03	5,0E+00	2,0E+01	0	7,1E-01	0	0	0	0	0	3,7E-04	2,2E-02	2,6E-01	8,4E-03	-3,0E+02
PERM	MJ	7,5E+02	0,0E+00	-1,1E+02	0	0,0E+00	0	0	0	0	0	0,0E+00	0,0E+00	-6,4E+02	0,0E+00	0,0E+00
PERT	MJ	2,7E+03	5,0E+00	-8,7E+01	0	7,1E-01	0	0	0	0	0	3,7E-04	2,2E-02	-6,4E+02	8,4E-03	-3,0E+02
PENRE	MJ	7,8E+02	3,3E+01	8,4E+00	0	3,4E+00	0	0	0	0	0	1,8E-01	9,5E+00	3,9E+00	4,1E-01	-3,2E+02
PENRM	MJ	1,1E+01	0,0E+00	-8,4E+00	0	0,0E+00	0	0	0	0	0	0,0E+00	0,0E+00	-3,0E+00	0,0E+00	0,0E+00
PENRT	MJ	7,9E+02	3,3E+01	-3,8E-03	0	3,4E+00	0	0	0	0	0	1,8E-01	9,5E+00	9,6E-01	4,1E-01	-3,2E+02
SM	kg	0,0E+00	0,0E+00	0,0E+00	0	0,0E+00	0	0	0	0	0	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
RSF	MJ	0,0E+00	0,0E+00	0,0E+00	0	0,0E+00	0	0	0	0	0	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
NRSF	MJ	0,0E+00	0,0E+00	0,0E+00	0	0,0E+00	0	0	0	0	0	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
FW	m^3	1,5E+01	5,9E-04	8,3E-04	0	1,1E-02	0	0	0	0	0	3,4E-06	1,5E-04	7,1E-03	4,0E-04	-8,1E-02
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[4]

Results per m^2 Door Portal with dimensions 1,4m x 2,7m (3,78 m^2)																
Indicator	**Unit**	**A1-A3**	**A4**	**A5**	**B1**	**B2**	**B3**	**B4**	**B5**	**B6**	**B7**	**C1**	**C2**	**C3**	**C4**	**D**
Hazardous waste disposed	kg	3,9	0,010	0,040	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
Non-hazardous waste disposed	kg	98	0,26	1,02	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
Radioactive waste disposed	kg	0,0034	8,7E-06	3,5E-05	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0

[4] The reported waste production are flows leaving the system boundary. Since waste treatment processes are part of the system boundary, the indicators are here reported as zero, according to Environdec's "guidance on the resource use and waste indicators" (https://environdec.com/resources/indicators). As EPDs has been used to represent some raw materials, their flows are added in A1.

Output flow indicators

Results per m^2 Door Portal with dimensions 1,4m x 2,7m (3,78 m^2)															
Indicator	**Unit**	**A1-A3**	**A4**	**A5**	**B1**	**B2**	**B3**	**B4**	**B5**	**B6**	**B7**	**C1**	**C2**	**C3**	**C4**	**D**
Components for re-use	kg	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,00
Material for recycling	kg	0,45	0,00080	0,0032	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,3	0,0	0,00
Materials for energy recovery	kg	0,0	0,0	0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,00
Exported energy, electricity	MJ	43	0,030	26	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	146	0,0	0,00
Exported energy, thermal	MJ	83	0,030	61	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	341	0,0	0,00

100% Recycling/Incineration/Landfilling Scenario for modules A5, C1-C4 & D

Mandatory impact category indicators according to EN 15804, per 1 m² Door Portal

100% Recycling Scenario - Results per m² Door Portal with dimensions 1,4m x 2,7m (3,78 m²)

Indicator	Unit	A4	A5	C1	C2	C3	C4	D
GWP-total	kg CO_2 eq.	5,8E+00	9,7E+00	1,3E-02	4,2E-01	5,3E+01	0,0E+00	-4,5E+00
GWP-fossil	kg CO_2 eq.	2,3E+00	6,2E-01	1,3E-02	4,2E-01	9,3E-02	0,0E+00	-4,4E+00
GWP-biogenic	kg CO_2 eq.	3,5E+00	9,0E+00	0,0E+00	2,9E-04	5,2E+01	0,0E+00	0,0E+00
GWP-luluc	kg CO_2 eq.	7,9E-04	3,0E-03	5,3E-07	6,7E-06	2,8E-04	0,0E+00	-1,0E-01
ODP	kg CFC 11 eq.	6,4E-08	6,2E-08	2,0E-10	9,6E-09	1,4E-09	0,0E+00	-1,0E-07
AP	mol H^+ eq.	4,5E-03	7,2E-03	1,2E-04	1,1E-03	8,5E-04	0,0E+00	-3,4E-02
EP-freshwater	kg P eq.	1,6E-05	6,0E-05	1,2E-08	2,6E-07	1,3E-07	0,0E+00	-1,7E-04
EP-marine	kg N eq.	1,4E-03	3,2E-03	5,6E-05	4,2E-04	4,0E-04	0,0E+00	-1,3E-02
EP-terrestrial	mol N eq.	1,3E-02	2,6E-02	6,2E-04	4,6E-03	4,4E-03	0,0E+00	-1,5E-01
POCP	kg NMVOC eq.	6,0E-03	3,3E-03	1,8E-04	1,8E-03	1,3E-03	0,0E+00	-5,7E-02
ADP-minerals&metals*	kg Sb eq.	7,7E-06	3,0E-05	4,5E-10	1,1E-08	4,1E-09	0,0E+00	-4,0E-07
ADP-fossil*	MJ	3,1E+01	9,0E+00	1,7E-01	5,6E+00	1,5E+00	0,0E+00	-1,2E+02
WDP*	m^3	7,6E-01	3,0E+00	1,3E-04	1,8E-03	5,2E-03	0,0E+00	-1,3E+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 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).

** 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.*

Additional mandatory and voluntary impact category indicators

100% Recycling Scenario - Results per m^2 Door Portal with dimensions 1,4m x 2,7m (3,78 m^2)

Indicator	Unit	A4	A5	C1	C2	C3	C4	D
GWP-GHG[5]	kg CO_2 eq.	2,3E+00	6,1E-01	1,3E-02	4,2E-01	9,3E-02	0,0E+00	-4,5E+00
PM	disease inc.	1,4E-07	1,1E-07	3,4E-09	2,8E-08	2,4E-08	0,0E+00	-2,1E-06
IR[6]	kBq U-235 eq	1,9E-02	6,4E-02	1,4E-05	5,4E-04	1,2E-02	0,0E+00	-2,0E+00
ETP – FW[4]	CTUe	5,4E+00	1,8E+01	4,8E-03	2,0E-01	3,7E-02	0,0E+00	-8,3E+00
HTP – C[4]	CTUh	2,5E-09	9,3E-09	6,9E-13	2,9E-11	5,4E-12	0,0E+00	-3,5E-09
HTP – NC[4]	CTUh	1,3E-08	4,8E-09	1,3E-11	2,8E-09	1,1E-10	0,0E+00	-5,2E-08
Land use, SQP*	Pt	1,0E+01	4,2E+01	2,9E-04	7,2E-03	7,5E-02	0,0E+00	-5,8E+03
Acronyms	GWP-GHG: Global Warming Potential, Greenhouse Gases, PM: Particulate Matter, IRP: Ionizing Radiation - Human Health, ETP-FW: Ecotoxicity Potential – Freshwater, HTP-C: Human Toxicity Potential – Cancer, HTP-NC: Human Toxicity Potential – Non-Cancer, SQP: Soil Quality Potential Index.							

[5] 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.

[6] This impact category deals mainly with the eventual impact of low dose ionizing radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure nor due to radioactive waste disposal in underground facilities. Potential ionizing radiation from the soil, from radon and from some construction materials is also not measured by this indicator.

Mandatory impact category indicators according to EN 15804, per 1 m² Door Portal

100% Incineration Scenario - Results per m² Door Portal with dimensions 1,4m x 2,7m (3,78 m²)								
Indicator	**Unit**	**A4**	**A5**	**C1**	**C2**	**C3**	**C4**	**D**
GWP-total	kg CO_2 eq.	5,8E+00	9,8E+00	1,3E-02	6,9E-01	5,3E+01	7,0E-06	-3,5E+00
GWP-fossil	kg CO_2 eq.	2,3E+00	8,0E-01	1,3E-02	6,9E-01	8,8E-01	7,0E-06	-3,3E+00
GWP-biogenic	kg CO_2 eq.	3,5E+00	9,0E+00	0,0E+00	2,9E-04	5,2E+01	0,0E+00	0,0E+00
GWP-luluc	kg CO_2 eq.	7,9E-04	3,0E-03	5,3E-07	1,1E-05	2,9E-04	4,0E-10	-2,5E-01
ODP	kg CFC 11 eq.	6,4E-08	6,2E-08	2,0E-10	1,6E-08	5,9E-09	1,1E-13	-1,1E-07
AP	mol H^+ eq.	4,5E-03	7,4E-03	1,2E-04	1,8E-03	5,7E-03	6,3E-08	-3,2E-02
EP-freshwater	kg P eq.	1,6E-05	6,0E-05	1,2E-08	4,2E-07	3,1E-06	6,7E-12	-1,6E-04
EP-marine	kg N eq.	1,4E-03	3,2E-03	5,6E-05	6,8E-04	2,9E-03	3,0E-08	-9,1E-03
EP-terrestrial	mol N eq.	1,3E-02	2,7E-02	6,2E-04	7,4E-03	3,1E-02	3,3E-07	-1,4E-01
POCP	kg NMVOC eq.	6,0E-03	3,4E-03	1,8E-04	2,9E-03	7,7E-03	9,8E-08	-2,8E-02
ADP-minerals&metals*	kg Sb eq.	7,7E-06	3,0E-05	4,5E-10	1,8E-08	3,9E-08	2,4E-13	-9,8E-07
ADP-fossil*	MJ	3,1E+01	9,2E+00	1,7E-01	9,1E+00	3,7E+00	9,1E-05	-3,3E+02
WDP*	m^3	7,6E-01	3,0E+00	1,3E-04	3,0E-03	5,3E-02	6,8E-08	-4,1E+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 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).

** 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.*

Additional mandatory and voluntary impact category indicators

100% Incineration Scenario - Results per m^2 Door Portal with dimensions 1,4m x 2,7m (3,78 m^2)								
Indicator	**Unit**	**A4**	**A5**	**C1**	**C2**	**C3**	**C4**	**D**
GWP-GHG[7]	kg CO_2 eq.	2,3E+00	7,9E-01	1,3E-02	6,9E-01	8,8E-01	7,0E-06	-3,6E+00
PM	disease inc.	1,4E-07	1,1E-07	3,4E-09	4,6E-08	6,9E-08	1,9E-12	-6,3E-07
IR[8]	kBq U-235 eq	1,9E-02	6,4E-02	1,4E-05	8,8E-04	1,3E-02	1,2E-08	-1,1E+01
ETP – FW[4]	CTUe	5,4E+00	1,8E+01	4,8E-03	3,3E-01	4,1E+00	2,6E-06	-9,7E+00
HTP – C[4]	CTUh	2,5E-09	9,3E-09	6,9E-13	4,6E-11	7,7E-10	3,9E-16	-2,7E-09
HTP – NC[4]	CTUh	1,3E-08	6,0E-09	1,3E-11	4,6E-09	5,4E-08	7,5E-15	-8,2E-08
Land use, SQP*	Pt	1,0E+01	4,2E+01	2,9E-04	1,2E-02	2,2E-01	9,3E-05	-4,6E+02
Acronyms	GWP-GHG: Global Warming Potential, Greenhouse Gases, PM: Particulate Matter, IRP: Ionizing Radiation - Human Health, ETP-FW: Ecotoxicity Potential – Freshwater, HTP-C: Human Toxicity Potential – Cancer, HTP-NC: Human Toxicity Potential – Non-Cancer, SQP: Soil Quality Potential Index.							

[7] 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.

[8] This impact category deals mainly with the eventual impact of low dose ionizing radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure nor due to radioactive waste disposal in underground facilities. Potential ionizing radiation from the soil, from radon and from some construction materials is also not measured by this indicator.

Mandatory impact category indicators according to EN 15804, per 1 m² Door Portal

100% Landfilling Scenario - Results per m² Door Portal with dimensions 1,4m x 2,7m (3,78 m²)								
Indicator	**Unit**	**A4**	**A5**	**C1**	**C2**	**C3**	**C4**	**D**
GWP-total	kg CO_2 eq.	5,8E+00	9,7E+00	1,3E-02	4,2E-01	1,9E-01	5,3E+01	-5,7E-01
GWP-fossil	kg CO_2 eq.	2,3E+00	6,2E-01	1,3E-02	4,2E-01	1,9E-01	3,1E-01	-5,3E-01
GWP-biogenic	kg CO_2 eq.	3,5E+00	9,0E+00	0,0E+00	2,9E-04	0,0E+00	5,2E+01	0,0E+00
GWP-luluc	kg CO_2 eq.	7,9E-04	3,0E-03	5,3E-07	6,7E-06	2,8E-04	3,1E-05	-4,1E-02
ODP	kg CFC 11 eq.	6,4E-08	6,2E-08	2,0E-10	9,6E-09	1,4E-09	1,0E-08	-1,8E-08
AP	mol H^+ eq.	4,5E-03	7,3E-03	1,2E-04	1,1E-03	8,6E-04	2,2E-03	-5,2E-03
EP-freshwater	kg P eq.	1,6E-05	6,0E-05	1,2E-08	2,6E-07	1,4E-07	1,6E-06	-2,7E-05
EP-marine	kg N eq.	1,4E-03	3,2E-03	5,6E-05	4,2E-04	4,0E-04	1,6E-03	-1,5E-03
EP-terrestrial	mol N eq.	1,3E-02	2,7E-02	6,2E-04	4,6E-03	4,4E-03	1,1E-02	-2,2E-02
POCP	kg NMVOC eq.	6,0E-03	3,4E-03	1,8E-04	1,8E-03	1,3E-03	4,5E-03	-4,7E-03
ADP-minerals&metals*	kg Sb eq.	7,7E-06	3,0E-05	4,5E-10	1,1E-08	4,2E-09	1,4E-07	-1,6E-07
ADP-fossil*	MJ	3,1E+01	9,2E+00	1,7E-01	5,6E+00	1,5E+00	7,6E+00	-5,3E+01
WDP*	m^3	7,6E-01	3,0E+00	1,3E-04	1,8E-03	5,3E-03	-1,9E-01	-6,6E-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 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).

** 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.*

Additional mandatory and voluntary impact category indicators

100% Landfilling Scenario - Results per m^2 Door Portal with dimensions 1,4m x 2,7m (3,78 m^2)								
Indicator	**Unit**	**A4**	**A5**	**C1**	**C2**	**C3**	**C4**	**D**
GWP-GHG[9]	kg CO_2 eq.	2,3E+00	6,4E-01	1,3E-02	4,2E-01	1,9E-01	2,4E+00	-5,8E-01
PM	disease inc.	1,4E-07	1,1E-07	3,4E-09	2,8E-08	2,4E-08	5,6E-08	-1,1E-07
IR[10]	kBq U-235 eq	1,9E-02	6,4E-02	1,4E-05	5,4E-04	1,2E-02	4,5E-03	-1,8E+00
ETP – FW[4]	CTUe	5,4E+00	1,8E+01	4,8E-03	2,0E-01	6,3E-02	5,8E-01	-1,6E+00
HTP – C[4]	CTUh	2,5E-09	9,3E-09	6,9E-13	2,9E-11	7,3E-11	3,6E-11	-4,5E-10
HTP – NC[4]	CTUh	1,3E-08	4,9E-09	1,3E-11	2,8E-09	4,0E-10	5,3E-09	-1,3E-08
Land use, SQP*	Pt	1,0E+01	4,2E+01	2,9E-04	7,1E-03	7,6E-02	1,9E+01	-9,2E+01
Acronyms	GWP-GHG: Global Warming Potential, Greenhouse Gases, PM: Particulate Matter, IRP: Ionizing Radiation - Human Health, ETP-FW: Ecotoxicity Potential – Freshwater, HTP-C: Human Toxicity Potential – Cancer, HTP-NC: Human Toxicity Potential – Non-Cancer, SQP: Soil Quality Potential Index.							

[9] 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.

[10] This impact category deals mainly with the eventual impact of low dose ionizing radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure nor due to radioactive waste disposal in underground facilities. Potential ionizing radiation from the soil, from radon and from some construction materials is also not measured by this indicator.

ABBREVIATIONS

Abbreviation	Definition
General Abbreviations	
EN	European Norm (Standard)
EPD	Environmental Product Declaration
EF	Environmental Footprint
GPI	General Programme Instructions
ISO	International Organization for Standardization
LCA	Life Cycle Assessment
PCR	Product Category Rules
c-PCR	Complementary Product Category Rules
CEN	European Committee for Standardization
CPC	Central product classification
GHG	Greenhouse Gas
PEF	Product Environmental Footprint
Environmental Impact Indicators (EN 15804)	
GHG	Greenhouse Gas
GWP	Global Warming Potential (kg CO_2 eq.)
GWP-fossil	Global Warming Potential from fossil sources (kg CO_2 eq.)
GWP-biogenic	Global Warming Potential from biogenic sources (kg CO_2 eq.)
GWP-luluc	Global Warming Potential from land use and land use change (kg CO_2 eq.)
GWP-total	Total Global Warming Potential (kg CO_2 eq.)
GWP-GHG	Global Warming Potential for greenhouse gases (kg CO_2 eq.)
ODP	Ozone Depletion Potential (kg CFC-11 eq.)
AP	Acidification Potential (mol H^+ eq.)
EP	Eutrophication Potential
EP-freshwater	Freshwater eutrophication potential (kg P eq.)
EP-marine	Marine eutrophication potential (kg N eq.)
EP-terrestrial	Terrestrial eutrophication potential (mol N eq.)
POCP	Photochemical Ozone Creation Potential (kg NMVOC eq.)
ADP	Abiotic Depletion Potential
ADP-minerals&metals	Abiotic depletion potential for non-fossil resources (kg Sb eq.)
ADP-fossil	Abiotic depletion potential for fossil resources (MJ)
WDP	Water Deprivation Potential (m^3)
Resource Use Indicators	
PERE	Renewable primary energy (excluding as raw materials) (MJ)
PERM	Renewable primary energy used as raw materials (MJ)
PERT	Total renewable primary energy (MJ)
PENRE	Non-renewable primary energy (excluding as raw materials) (MJ)
PENRM	Non-renewable primary energy used as raw materials (MJ)
PENRT	Total non-renewable primary energy (MJ)
SM	Use of secondary material (kg)
RSF	Use of renewable secondary fuels (MJ)
NRSF	Use of non-renewable secondary fuels (MJ)
FW	Use of net fresh water (m^3)
HW	Hazardous Waste (disposed) (kg)
NHW	Non-Hazardous Waste (disposed) (kg)
RW	Radioactive Waste (disposed) (kg)
Output Flow Indicators	
CFR	Components for Reuse (kg)
MR	Material for Recycling (kg)
MER	Materials for Energy Recovery (kg)
EEE	Exported Energy, Electricity (MJ)
EET	Exported Energy, Thermal (MJ)
Lifecycle Stages / Modules	

A1	Raw material supply
A2	Transport
A3	Manufacturing
A4	Transport to site
A5	Construction/Installation
B1	Use
B2	Maintenance
B3	Repair
B4	Replacement
B5	Refurbishment
B6	Operational energy use
B7	Operational water use
C1	Deconstruction/Demolition
C2	Transport to waste processing
C3	Waste processing
C4	Disposal
D	Reuse-Recovery-Recycling potential
Other Relevant Terms	
SVHC	Substances of Very High Concern
EC No.	European Community Number
CAS No.	Chemical Abstracts Service Number
MJ	Megajoule
kg	Kilogram
m^3	Cubic Meter
NMVOC	Non-Methane Volatile Organic Compounds
Sb eq.	Antimony Equivalents
P eq.	Phosphorus Equivalents
N eq.	Nitrogen Equivalents
CFC-11 eq.	Chlorofluorocarbon-11 Equivalents
CO_2 eq.	Carbon Dioxide Equivalents
kg C	Kilograms of Carbon
kg CO_2 eq.	Kilograms of Carbon Dioxide Equivalent
ND	Not Declared

REFERENCES

ISO 14025:2006, Environmental labels and declarations – Type III environmental declarations – Principles and procedures.

General Programme Instructions of International EPD System. Version 5.0.1

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

PCR 2019:14. Construction products. Version 2.0.1

c-PCR-007 Windows and doors (EN 17213)

Life Cycle Assessment of Door Portal by Hulåns Snickerifabrik AB, Miljögiraff AB, 2025

EPD References

EPD-registration number: EPD-HUB-0448
Owner: JELD-WEN
Name of EPD: Interior wooden door with solid core, unglazed, 60 mm, 29.9 kg/m2, Solid Core Door.
EPD-program: EPD Hub
Version date: 2023-05-12
Valid until: 2028-05-12

EPD-registration number: EPD-S-P-00273
Owner: Financiera Maderera S.A. (FINSA)
Name of EPD: Melamine Faced Medium Density Fibreboards (MDF)
EPD-program: The International EPD System
Version date: 2011-03-01
Revision date: 2024-07-26
Valid until: 2027-04-12

EPD-registration number: EPD-HUB-1165
Owner: Kronospan Polska Sp. z o.o.
Name of EPD: Raw Medium Density Fibreboard (MDF)
EPD-program: EPD Hub
Version date: 2024-02-22
Valid until: 2029-02-22

EPD-registration number: NEDP-11234-11178
Owner: Hunton Fiber AS
Name of EPD: Hunton Nativo® Trefiberisolasjon Plate
EPD-program: EPD Norway (*EPD-Global, powered by EPD-Norway*)
Version date: 2025-05-27
Valid until: 2030-05-27

VERSION HISTORY

Original Version of the EPD, 2026-02-20

EPD
INTERNATIONAL EPD SYSTEM
www.environdec.com