epddanmark

ECO PLATFORM EPD VERIFIED

Owner: EW Lofttrapper
No.: MD-26018-EN
Issued: 04-03-2026
Valid to: 04-03-2031

3rd PARTY **VERIFIED**

EPD

VERIFIED ENVIRONMENTAL PRODUCT DECLARATION | **ISO 14025 & EN 15804**

Owner of declaration
EW Lofttrapper
Tarp Byvej 145
6715 Esbjerg N
[VAT no.:17746685]
www.ewlofttrapper.dk

Programme
EPD Danmark
www.epddanmark.dk

☐ Industry EPD
☒ Product EPD

☐ Product specific
☐ Average
☐ Worst Case

Declared product(s)
1 loft ladder
Number of declared datasets/product variations: 6

- EI2-30 8-87, EI2-30 8-110, EI2-30 8-120
  EI2-60 7-87, EI2-60 7-110 og EI2-60 7-120

Production site
Tarp Byvej 145, 6715 Esbjerg N, Denmark

Use of Guarantees of Origin
☒ No certificates used
☐ Electricity covered by GoO
☐ Biogas covered by GoO

Declared/ functional unit
1 declared unit = 1 preassembled loft ladder

Year of production site data (A3)
2024

EPD version
Version 1

Issued: 04-03-2026
Valid to: 04-03-2031

Basis of calculation
This EPD is developed and verified in accordance with the European standard EN 15804+A2.

Comparability
EPDs of construction products may not be comparable if they do not comply with the requirements in EN 15804. EPD data may not be comparable if the datasets used are not developed in accordance with EN 15804 and if the background systems are not based on the same database.

Validity
This EPD has been verified in accordance with ISO 14025 and is valid for 5 years from the date of issue.

Use
The intended use of an EPD is to communicate scientifically based environmental information for construction products, for the purpose of assessing the environmental performance of buildings.

EPD type
☒Cradle-to-gate with modules C1-C4 and D
☐Cradle-to-gate with options, modules C1-C4 and D
☐Cradle-to-grave and module D
☐Cradle-to-gate
☐Cradle-to-gate with options

CEN standard EN 15804 serves as the core PCR

Independent verification of the declaration and data, according to EN ISO 14025

☐ internal ☒ external

Third party verifier:

Mirko Miseljic

Martha Katrine Sørensen
EPD Danmark

Life cycle stages and modules (ND = module not declared)																
Product			Construction process		Use							End of life				Beyond the system boundary
Raw material supply	Transport	Manufacturing	Transport	Installation process	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction demolition	Transport	Waste processing	Disposal	Re-use, recovery and recycling potential
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
X	X	X	ND	X	ND	ND	ND	ND	ND	ND	ND	X	X	X	X	X

Product information

Product description

Loft ladders produced from kiln-dried FSC-certified pine wood with an insulated fiberboard hatch. The main product components are shown in the table below.

Material	Weight % of declared products					
	EI2-30, EW 8-87	EI2-30, EW 8-110	EI2-30, EW 8-120	EI2-60, EW 7-87	EI2-60, EW 7-110	EI2-60, EW 7-120
Wood	49.54	51.29	50.40	46.13	47.44	46.60
Metal	16.73	14.21	13.50	17.35	14.75	14.01
Chemicals	1.31	1.40	1.45	1.22	1.29	1.34
Plastic	0.59	0.41	0.60	0.88	0.83	0.82
Mineral	31.84	32.69	34.06	34.43	35.69	37.23
Total	100	100	100	100	100	100

Product packaging:

The composition of the sales- and transport packaging of the product is shown in the table below.

Material	Weight of packaging material (kg)	Weight % of packaging
Wood	0.147	8.53
Cardboard	1.52	88.18
Plastic	0.0567	3.29
Total	1.72	100

Representativity

This declaration, including data collection and the modeled foreground system including results, represents the production of EW loft ladders on the production site located in Esbjerg, Denmark. Product specific data are based on average values collected in the period 2024. Background data are based on Ecoinvent 3.11 and are less than 10 years old. Generally, the used background datasets are of high quality, and the majority of the datasets are only a couple of years old.

Hazardous substances

EW Loft ladders EI2-30 8-87, EI2-30 8-110, EI2-30 8-120, EI2-60 7-87, EI2-60 7-110, EI2-60 7-120, do not contain substances listed on the "Candidate List of Substances of Very High Concern for authorization" declaration by the manufacturer signed: 15.12.2025 (http://echa.europa.eu/candidate-list-table)

Product(s) use

The loft ladders, produced by EW Lofttrapper, are designed to provide efficient access to attic spaces and roof areas in buildings. Potential uses include access to storage, attic inspection, or as a functional solution for efficiently utilizing unused space. In buildings, loft ladders can be used in residential areas, storage buildings, and other structures where access to the attic is needed.

For materials or components, loft ladders are primarily used in building loft openings and roof constructions, where they serve as an effective and space-saving access system. The products are crafted from FSC-certified pine wood with mineral components for fire-protection, metal components and small quantities of plastic and wood glue. The ladders are engineered for easy use, with a space-saving design that folds or slides up when not in use, offering safe and convenient attic access.

The ladders are functional across varying climates and environments and are equipped with insulation options for enhanced thermal performance. The operational use includes easy installation and folding mechanism for safe use in spaces with limited clearance.

Essential characteristics

The six loft ladder models are similar to each other in terms of how they are produced. Three of the loft ladders are classified as EI2-30 (8-87, 8-110, and 8-120), which means the construction can maintain its fire integrity and insulation performance for at least 30 minutes by preventing flames and hot gases from passing through. The remaining models (7-87, 7-110, 7-120) are classified as EI2-60, meaning they provide the same type of protection but for at least 60 minutes. The door is rebated and equipped with a sealing strip both on the rebate and at the top of the door, providing a super-tight loft ladder. The loft ladders have also been tested at the Danish Technological Institute, where they were classified as Airtightness Class 4 at 600 Pa. They are considered building components, similar to windows and doors.

Further technical information can be obtained by contacting the manufacturer or on the manufacturer's website:

https://ewlofttrapper.dk

Reference Service Life (RSL)

Not defined, as the use phase has not been included in the study.

Picture of product(s)

4-section loft ladders:

- EI2-30 8-87
- EI2-60 7-87

For more technical data, see company webpage.

3-section loft ladders:

- EI2-30 8-110 and 8-120
- EI2-60 7-110 and 7-120

For more technical data, see company webpage.

LCA background

Declared unit

The LCI and LCIA results in this EPD relates to each product of the ladder types EI-30 8-87, EI2-30 8-110, EI2-30 8-120, EI2-60 7-87, EI2-60 7-110 and EI2-60 7-120.

Name	Value	Unit
Declared unit	1	1 piece (loft ladder)

Functional unit

Not defined

Material properties

The U-value varies between 0.754-0.78 W/m^2K. All tested according to EN 14351.

Name of declared loft ladders	Mass factor (kg/DU)	U-value (W/m^2K)
EI2-30, EW 8-87	24.0	0.754
EI2-30, EW 8-110	30.9	0.754
EI2-30, EW 8-120	23.9	0.754
EI2-60, EW 7-87	26.0	0.78
EI2-60, EW 7-110	34.2	0.78
EI2-60, EW 7-120	26.9	0.78

PCR

This EPD is developed according to the core rules for the product category of construction products in EN 15804+A2, and construction products PCR 2019:14 VERSION 1.3.4. No c-PCR has been used.

Energy modelling principles

Guarantee of Origin – certificates

There has been no use of green electricity, and the manufacturer does not have GO certificates.

Foreground system:

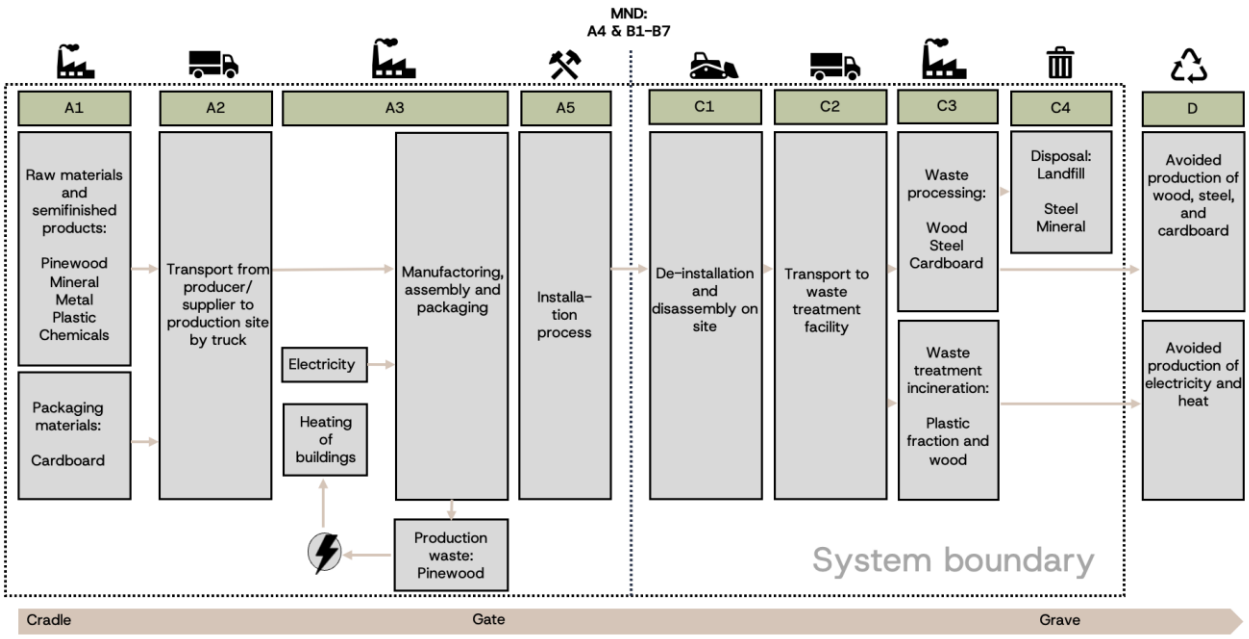
All energy used in the manufacturing stage A3 has been Danish residual electricity mix.

Dataset	EF	Unit
Residual grid mix, DK	0.65	Kg CO_2e/kWh

Background system:

Upstream and downstream secondary processes apply grid mix electricity processes, as this cannot be altered within the aggregated processes.

Flowdiagram



System boundary

This EPD is based on a cradle-to-gate LCA, in which 100 weight-% has been accounted for.

The general rules for the exclusion of inputs and outputs follow the requirements in EN 15804, 6.3.5, where the total of neglected input flows per module shall be a maximum of 5 % of energy usage and mass and 1 % of energy usage and mass for unit processes.

Product stage (A1-A3) includes:

A1 – Extraction and processing of raw materials

A2 – Transport to the production site

A3 – Manufacturing processes

The product stage comprises the acquisition of all raw materials, products and energy, transport to the production site, packaging and waste processing up to the "end-of-waste" state or final disposal. The LCA results are declared in aggregated form for the product stage, which means, that the sub-modules A1, A2 and A3 are declared as one module A1-A3.

A1-Extraction and processing of raw materials

All raw-materials and subcomponents are manufactured and provided by the suppliers. The wood is supplied as larger panels and is further processed at the manufacturing site in Denmark to the final dimensions and surface quality. The steel- and plastic parts are supplied as finished products without the need of any further treatment. The same applies for the packaging materials.

A2-Transport to production site

All raw-materials and subcomponents are transported from the supplier to the production site.

Material	Transportation	Origin
Pine-wood	Truck	Estonia
Minerals	Truck	Denmark
Steel	Truck	Germany
Plastic	Truck	Denmark
Paint	Truck	Denmark
Glue	Light commercial vehicle	Denmark

A3-Manufactoring

The wood components for the frame- and ladder are cut from larger glue-laminated planks and are machined into the final dimensions and surface quality prior to assembling. All the metal, mineral and plastic parts are attached manually and the product is fully assembled and manufactured at the production site in Denmark.

The finished product is prepared for transport and distribution by use of any necessary packaging materials.

Construction process stage (A4-A5) includes:

Module A4 is not declared. Module A5 includes only packaging waste end-of-life treatment. Installation impacts are negligible.

Use stage (B1-B7) includes:

Not declared

End of Life (C1-C4) includes:

The Environmental Product Declaration (EPD) is intended for the European market, mainly Denmark, where it is assumed that loft ladders are disposed of. The end-of-life scenario is therefore based on conditions in Denmark.

The dismantling or removal of the loft ladders is mainly a manual process, although common hand tools, such as an electric screwdriver, may be used. The potential electricity consumption for this process is considered negligible, and it is not assumed that a lift is required for removal. As such, no activities are included in C1.

In module C2, it is assumed that the entire product will be transported 10 km to the nearest sorting/recycling station. At the station, the product undergoes dismantling and sorting into different fractions (wood, metals, plastic). Following sorting, all materials are then transported 50 km to their respective destinations for either incineration or recycling.

For waste processing in C3, 100% of the metal components will be separated and sorted in compliance with current regulations at a local waste facility or recycling station. The recycled metals will also lead to a credit in the D-module,

where it replaces the production of virgin metals. According to a report from the Danish Environment Agency (Miljøprojekt nr. 804, 2003) 90 % of the stainless steel and galvanized steel are recycled and 10 % is landfilled.

The wood components will be separated and sorted. According to a report from the Danish Environment Agency (Miljøprojekt no. 1993, 2018), approx. 50 % of the post-consumer wood is incinerated for energy recovery and 50 % is recycled into wood chips for particleboard production.

The plastic part of the loft ladders (1-3 wt. %) includes raw materials such as sealing tape, rubber and silicone sealing strips/membranes. Components that are not easily recycled, particularly when they are glued to the wood. Considering the low amounts and the difficulty of separating the plastic from the wood, it is considered to be incinerated at the end of life together with 50 % of the wood.

The mineral content in the loft ladders (31-37 wt. %) includes rockwool, mineral wool (Paroc) and masterboard (calcium silicate). Regarding the rockwool, 10 % is recycled and 90 % is landfilled, according to the EPD from Rockwool.

For the incineration scenario, module D accounts for the impacts and benefits derived from avoided Danish average electricity production and thermal energy recovery.

For C4, 10 % of the metals are landfilled. 90 % of the Rockwool is landfilled, according to the EPD from Rockwool. The Masterboard made from calcium silicate is considered landfilled, according to several EPD's with similar product specification and composition. The mineral wool from Paroc is made from rockwool and considered 100 % landfilled according to the EPD.

Re-use, recovery and recycling potential (D) includes:

For the recycling scenario, module D covers the impacts and benefits resulting from the avoided production of new residual wood chips for particleboard production, the production of virgin steel (from 90 % of the steel) and the production of Rockwool (from 10 % of the Rockwool). For the

incineration scenario (50 % wood and all plastic components). The benefits from module D accounts for the impacts and benefits derived from avoided Danish average electricity production and thermal energy recovery.

OneClickLCA EPD software

This EPD is generated with OneClickLCA. The EN & ISO-compliant EPD generation software streamlines LCA analysis and sustainability reporting. The modelling process was done using Ecoinvent 3.11 data and the results of the EPD are checked for plausibility

Identification name and version number of the EPD-generator: EPD Generator - Ecoinvent 3.11.

Estimates and assumptions

All transport in A2 and C2 is with EURO 6 trucks due to the lack of specific data.

In the C module, the end-of-life scenario considered is that the opening system is demounted during the deconstruction process and a small amount of energy for power tools is required for this process. The used system is transported to a municipal waste collection and sorting station, the average transport distance from the demolition place to the station is set to 50 km for all waste facilities.

The scenarios attributed to the modules where data was unavailable are considered representative to the generic European data and are also descriptive of the geography of the project.

EI2-30 8-87

ENVIRONMENTAL IMPACTS INDICATORS OF EI2-30 8-87								
Parameter	**Unit**	**A1-A3**	**A5**	**C1**	**C2**	**C3**	**C4**	**D**
GWP-total	[kg CO_2e]	1.79E+01	2.33E+00	0.00E+00	3.70E-01	3.05E+01	6.81E-02	-5.52E+00
GWP-fossil	[kg CO_2e]	5.00E+01	3.56E-02	0.00E+00	3.70E-01	1.81E+00	6.80E-02	-6.69E+00
GWP-biogenic	[kg CO_2e]	-3.22E+01	2.29E+00	0.00E+00	3.75E-05	2.87E+01	2.79E-05	1.17E+00
GWP-luluc	[kg CO_2e]	9.61E-02	1.58E-05	0.00E+00	1.33E-04	3.06E-04	3.90E-05	-6.36E-03
ODP	[Kg CFC-$_{11}$e]	1.28E-06	5.16E-10	0.00E+00	7.35E-09	5.17E-09	1.90E-09	-5.53E-08
AP	[mol H^+e]	1.88E-01	1.10E-04	0.00E+00	7.69E-04	2.70E-03	4.77E-04	-2.92E-02
EP-freshwater	[kg Pe]	7.03E-02	3.31E-06	0.00E+00	2.49E-05	1.37E-04	5.93E-06	-3.02E-03
EP-marine	[kg Ne]	4.15E-02	4.30E-05	0.00E+00	1.85E-04	1.29E-03	1.83E-04	-5.22E-03
EP-terrestrial	[mol Ne]	4.34E-01	4.11E-04	0.00E+00	1.99E-03	1.15E-02	2.00E-03	-7.03E-02
POCP	[kg NMVOCe]	1.91E-01	1.59E-04	0.00E+00	1.28E-03	3.12E-03	7.21E-04	-2.10E-02
ADPm[1]	[kg Sbe]	6.67E-04	1.04E-07	0.00E+00	1.23E-06	2.63E-06	1.02E-07	-7.43E-05
ADPf[1]	[MJ]	7.14E+02	3.99E-01	0.00E+00	5.20E+00	4.27E+00	1.67E+00	-8.01E+01
WDP[1]	[m^3e depr.]	6.34E+00	3.50E-03	0.00E+00	2.58E-02	4.32E-01	6.98E-02	-4.15E-01
Caption	GWP-total = Globale Warming Potential - total; 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 = Ozone Depletion; AP = Acidifcation; EP-freshwater = Eutrophication – aquatic freshwater; EP-marine = Eutrophication – aquatic marine; EP-terrestrial = Eutrophication – terrestrial; POCP = Photochemical zone formation; ADPm = Abiotic Depletion Potential – minerals and metals; ADPf = Abiotic Depletion Potential – fossil fuels; WDP = water depletion potential							
	The numbers are declared in scientific notation, fx 1.95E+02. This number can also be written as: $1.95*10^2$ or 195, while 1.12E-11 is the same as $1.12*10^{-11}$ or 0,0000000000112.							
Disclaimer	[1] The results of this environmental indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator.							

ADDITIONAL ENVIRONMENTAL IMPACTS FOR EI2-30 8-87								
Parameter	**Unit**	**A1-A3**	**A5**	**C1**	**C2**	**C3**	**C4**	**D**
PM	[Incidence]	1.32E-06	1.44E-08	0.00E+00	2.72E-08	3.27E-08	1.10E-08	-6.02E-07
IRP[2]	[kBq U235e]	1.53E+00	1.26E-03	0.00E+00	6.71E-03	4.93E-02	9.99E-04	-9.99E-01
ETP-fw[1]	[CTUe]	2.12E+02	7.47E-02	0.00E+00	6.92E-01	5.59E+00	1.06E+00	2.31E+01
HTP-c[1]	[CTUh]	8.23E-09	8.50E-12	0.00E+00	6.20E-11	4.48E-10	1.23E-11	1.54E-09
HTP-nc[1]	[CTUh]	2.51E-07	2.69E-10	0.00E+00	3.29E-09	2.10E-08	2.78E-10	3.24E-07
SQP[1]	-	3.08E+02	2.30E-01	0.00E+00	3.14E+00	5.57E+00	3.27E+00	-6.51E+01
Caption	PM = Particulate Matter emissions; IRP = Ionizing radiation – human health; ETP-fw = Eco toxicity – freshwater; HTP-c = Human toxicity – cancer effects; HTP-nc = Human toxicity – non cancer effects; SQP = Soil Quality (dimensionless)							
	The numbers are declared in scientific notation, fx 1.95E+02. This number can also be written as: $1.95*10^2$ or 195, while 1.12E-11 is the same as $1.12*10^{-11}$ or 0,0000000000112.							
Disclaimers	[1] The results of this environmental indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator.							
	[2] 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 for EI2-30 8-87								
Parameter	**Unit**	**A1-A3**	**A5**	**C1**	**C2**	**C3**	**C4**	**D**
PERE	[MJ]	2.48E+02	-2.63E+00	0.00E+00	9.10E-02	-2.18E+02	1.56E-02	4.38E+01
PERM	[MJ]	1.71E+02	-1.96E+01	0.00E+00	0.00E+00	-1.52E+02	0.00E+00	1.87E+01
PERT	[MJ]	4.19E+02	-2.23E+01	0.00E+00	9.10E-02	-3.69E+02	1.56E-02	6.25E+01
PENRE	[MJ]	6.69E+02	-2.01E+00	0.00E+00	5.20E+00	-1.81E+01	1.67E+00	-8.01E+01
PENRM	[MJ]	2.64E+01	-2.58E+00	0.00E+00	0.00E+00	-2.38E+01	0.00E+00	0.00E+00
PENRT	[MJ]	6.95E+02	-4.59E+00	0.00E+00	5.20E+00	-4.19E+01	1.67E+00	-8.01E+01
SM	[Kg]	3.63E+00	3.57E-04	0.00E+00	2.41E-03	5.71E-03	4.15E-04	3.04E+00
RSF	[MJ]	3.10E+00	3.24E-06	0.00E+00	3.05E-05	1.51E-04	8.65E-06	-8.83E-04
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]	5.38E-01	8.20E-05	0.00E+00	7.08E-04	4.95E-03	1.72E-03	-1.80E-01
Caption	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 resources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non renewable secondary fuels; FW = Net use of fresh water							
	The numbers are declared in scientific notation, fx 1.95E+02. This number can also be written as: $1.95*10^2$ or 195, while 1.12E-11 is the same as $1.12*10^{-11}$ or 0,0000000000112.							

WASTE CATEGORIES AND OUTPUT FLOWS FOR EI2-30 8-87								
Parameter	**Unit**	**A1-A3**	**A5**	**C1**	**C2**	**C3**	**C4**	**D**
HWD	[kg]	1.37E+00	1.15E-03	0.00E+00	7.56E-03	7.49E-02	1.89E-03	-2.83E+00
NHWD	[Kg]	3.28E+01	3.24E-02	0.00E+00	1.59E-01	1.06E+01	4.37E-02	5.91E+01
RWD	[Kg]	7.74E-03	3.21E-07	0.00E+00	1.67E-06	1.26E-05	2.44E-07	-2.58E-04
CRU	[Kg]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MFR	[Kg]	2.18E-03	1.72E+00	0.00E+00	0.00E+00	1.27E+01	0.00E+00	0.00E+00
MER	[Kg]	3.76E+00	0.00E+00	0.00E+00	0.00E+00	8.90E+00	0.00E+00	0.00E+00
EEE	[MJ]	6.25E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EET	{MJ]	2.63E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Caption	HWD = Hazardous waste disposed; NHWD = Non hazardous waste disposed; RWD = Radioactive waste disposed; CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported electrical energy; EET = Exported thermal energy							
	The numbers are declared in scientific notation. fx 1.95E+02. This number can also be written as: $1.95*10^2$ or 195, while 1.12E-11 is the same as $1.12*10^{-11}$ or 0,0000000000112.							

BIOGENIC CARBON CONTENT FOR EI2-30 8-87		
Parameter	**Unit**	**At the factory gate**
Biogenic carbon content in product	[kg C]	7.16
Biogenic carbon content in accompanying packaging	[kg C]	0.765
Note	1 kg biogenic carbon is equivalent to 44/12 kg of CO_2	

EI2-30 8-110

ENVIRONMENTAL IMPACTS INDICATORS OF EI2-30 8-110								
Parameter	**Unit**	**A1-A3**	**A5**	**C1**	**C2**	**C3**	**C4**	**D**
GWP-total	[kg CO_2e]	1,45E+01	2,33E+00	0,00E+00	4,23E-01	3,60E+01	7,94E-02	-5,53E+00
GWP-fossil	[kg CO_2e]	5,21E+01	3,56E-02	0,00E+00	4,23E-01	1,99E+00	7,93E-02	-6,91E+00
GWP-biogenic	[kg CO_2e]	-3,77E+01	2,29E+00	0,00E+00	4,14E-05	3,40E+01	3,30E-05	1,39E+00
GWP-luluc	[kg CO_2e]	9,93E-02	1,58E-05	0,00E+00	1,52E-04	3,44E-04	4,54E-05	-7,55E-03
ODP	[Kg CFC-$_{11}$e]	1,43E-06	5,16E-10	0,00E+00	8,42E-09	5,94E-09	2,21E-09	-6,38E-08
AP	[mol H^+e]	1,98E-01	1,10E-04	0,00E+00	8,81E-04	3,07E-03	5,56E-04	-3,09E-02
EP-freshwater	[kg Pe]	8,63E-02	3,31E-06	0,00E+00	2,85E-05	1,54E-04	6,92E-06	-3,26E-03
EP-marine	[kg Ne]	4,42E-02	4,30E-05	0,00E+00	2,12E-04	1,47E-03	2,13E-04	-5,63E-03
EP-terrestrial	[mol Ne]	4,66E-01	4,11E-04	0,00E+00	2,28E-03	1,32E-02	2,33E-03	-7,38E-02
POCP	[kg NMVOCe]	1,93E-01	1,59E-04	0,00E+00	1,47E-03	3,59E-03	8,40E-04	-2,21E-02
ADPm[1]	[kg Sbe]	6,51E-04	1,04E-07	0,00E+00	1,41E-06	2,70E-06	1,19E-07	-7,31E-05
ADPf[1]	[MJ]	7,60E+02	3,99E-01	0,00E+00	5,95E+00	4,87E+00	1,94E+00	-8,65E+01
WDP[1]	[m^3e depr.]	6,72E+00	3,50E-03	0,00E+00	2,96E-02	4,98E-01	8,20E-02	-6,32E-01
Caption	GWP-total = Globale Warming Potential - total; 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 = Ozone Depletion; AP = Acidifcation; EP-freshwater = Eutrophication – aquatic freshwater; EP-marine = Eutrophication – aquatic marine; EP-terrestrial = Eutrophication – terrestrial; POCP = Photochemical zone formation; ADPm = Abiotic Depletion Potential – minerals and metals; ADPf = Abiotic Depletion Potential – fossil fuels; WDP = water depletion potential							
	The numbers are declared in scientific notation, fx 1.95E+02. This number can also be written as: $1.95*10^2$ or 195, while 1.12E-11 is the same as $1.12*10^{-11}$ or 0.0000000000112.							
Disclaimer	[1] The results of this environmental indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator.							

ADDITIONAL ENVIRONMENTAL IMPACTS FOR EI2-30 8-110								
Parameter	**Unit**	**A1-A3**	**A5**	**C1**	**C2**	**C3**	**C4**	**D**
PM	[Incidence]	1,51E-06	1,44E-08	0,00E+00	3,12E-08	3,69E-08	1,28E-08	-6,42E-07
IRP[2]	[kBq U235e]	1,45E+00	1,26E-03	0,00E+00	7,68E-03	5,59E-02	1,17E-03	-1,19E+00
ETP-fw[1]	[CTUe]	2,37E+02	7,47E-02	0,00E+00	7,92E-01	6,07E+00	1,25E+00	2,13E+01
HTP-c[1]	[CTUh]	9,41E-09	8,50E-12	0,00E+00	7,10E-11	4,98E-10	1,44E-11	1,36E-09
HTP-nc[1]	[CTUh]	2,69E-07	2,69E-10	0,00E+00	3,77E-09	2,40E-08	3,24E-10	3,10E-07
SQP[1]	-	3,47E+02	2,30E-01	0,00E+00	3,60E+00	5,71E+00	3,82E+00	-7,32E+01
Caption	PM = Particulate Matter emissions; IRP = Ionizing radiation – human health; ETP-fw = Eco toxicity – freshwater; HTP-c = Human toxicity – cancer effects; HTP-nc = Human toxicity – non cancer effects; SQP = Soil Quality (dimensionless)							
	The numbers are declared in scientific notation, fx 1.95E+02. This number can also be written as: $1.95*10^2$ or 195, while 1.12E-11 is the same as $1.12*10^{-11}$ or 0.0000000000112.							
Disclaimers	[1] The results of this environmental indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator.							
	[2] 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 for EI2-30 8-110								
Parameter	**Unit**	**A1-A3**	**A5**	**C1**	**C2**	**C3**	**C4**	**D**
PERE	[MJ]	2.80E+02	-2.63E+00	0.00E+00	1.04E-01	-2.58E+02	1.82E-02	5.30E+01
PERM	[MJ]	1.99E+02	-1.96E+01	0.00E+00	0.00E+00	-1.80E+02	0.00E+00	2.22E+01
PERT	[MJ]	4.79E+02	-2.23E+01	0.00E+00	1.04E-01	-4.38E+02	1.82E-02	7.52E+01
PENRE	[MJ]	7.05E+02	-2.01E+00	0.00E+00	5.95E+00	-1.96E+01	1.94E+00	-8.65E+01
PENRM	[MJ]	2.97E+01	-2.58E+00	0.00E+00	0.00E+00	-2.71E+01	0.00E+00	0.00E+00
PENRT	[MJ]	7.35E+02	-4.59E+00	0.00E+00	5.95E+00	-4.68E+01	1.94E+00	-8.65E+01
SM	[Kg]	3.65E+00	3.57E-04	0.00E+00	2.76E-03	6.43E-03	4.83E-04	2.95E+00
RSF	[MJ]	3.87E+00	3.24E-06	0.00E+00	3.50E-05	1.52E-04	1.01E-05	-8.88E-04
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]	5.47E-01	8.20E-05	0.00E+00	8.11E-04	5.64E-03	2.01E-03	-1.82E-01
Caption	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 resources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non renewable secondary fuels; FW = Net use of fresh water							
	The numbers are declared in scientific notation, fx 1.95E+02. This number can also be written as: $1.95*10^2$ or 195, while 1.12E-11 is the same as $1.12*10^{-11}$ or 0.0000000000112.							

WASTE CATEGORIES AND OUTPUT FLOWS FOR EI2-30 8-110								
Parameter	**Unit**	**A1-A3**	**A5**	**C1**	**C2**	**C3**	**C4**	**D**
HWD	[kg]	1.33E+00	1.15E-03	0.00E+00	8.66E-03	8.48E-02	2.21E-03	-2.77E+00
NHWD	[Kg]	3.33E+01	3.24E-02	0.00E+00	1.83E-01	1.23E+01	5.10E-02	5.58E+01
RWD	[Kg]	7.91E-03	3.21E-07	0.00E+00	1.91E-06	1.43E-05	2.84E-07	-3.08E-04
CRU	[Kg]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MFR	[Kg]	2.39E-03	1.72E+00	0.00E+00	0.00E+00	1.40E+01	0.00E+00	0.00E+00
MER	[Kg]	4.53E+00	0.00E+00	0.00E+00	0.00E+00	1.05E+01	0.00E+00	0.00E+00
EEE	[MJ]	6.76E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EET	[MJ]	2.85E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Caption	HWD = Hazardous waste disposed; NHWD = Non hazardous waste disposed; RWD = Radioactive waste disposed; CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported electrical energy; EET = Exported thermal energy							
	The numbers are declared in scientific notation, fx 1.95E+02. This number can also be written as: $1.95*10^2$ or 195, while 1.12E-11 is the same as $1.12*10^{-11}$ or 0.0000000000112.							

BIOGENIC CARBON CONTENT FOR EI2-30 8-110		
Parameter	**Unit**	**At the factory gate**
Biogenic carbon content in product	[kg C]	8.5
Biogenic carbon content in accompanying packaging	[kg C]	0.765
Note	1 kg biogenic carbon is equivalent to 44/12 kg of CO_2	

EI2-30 8-120

ENVIRONMENTAL IMPACTS INDICATORS OF EI2-30 8-120								
Parameter	**Unit**	**A1-A3**	**A5**	**C1**	**C2**	**C3**	**C4**	**D**
GWP-total	[kg CO_2e]	1.64E+01	2.33E+00	0.00E+00	4.46E-01	3.75E+01	8.67E-02	-5.66E+00
GWP-fossil	[kg CO_2e]	5.53E+01	3.56E-02	0.00E+00	4.45E-01	2.30E+00	8.67E-02	-7.09E+00
GWP-biogenic	[kg CO_2e]	-3.90E+01	2.29E+00	0.00E+00	4.44E-05	3.52E+01	3.63E-05	1.44E+00
GWP-luluc	[kg CO_2e]	1.01E-01	1.58E-05	0.00E+00	1.60E-04	3.53E-04	4.96E-05	-7.94E-03
ODP	[Kg CFC-$_{11}$e]	1.54E-06	5.16E-10	0.00E+00	8.87E-09	6.19E-09	2.42E-09	-6.62E-08
AP	[mol H^+e]	2.11E-01	1.10E-04	0.00E+00	9.27E-04	3.21E-03	6.07E-04	-3.20E-02
EP-freshwater	[kg Pe]	9.45E-02	3.31E-06	0.00E+00	3.00E-05	1.58E-04	7.57E-06	-3.36E-03
EP-marine	[kg Ne]	4.69E-02	4.30E-05	0.00E+00	2.23E-04	1.54E-03	2.33E-04	-5.84E-03
EP-terrestrial	[mol Ne]	4.96E-01	4.11E-04	0.00E+00	2.40E-03	1.39E-02	2.55E-03	-7.59E-02
POCP	[kg NMVOCe]	2.22E-01	1.59E-04	0.00E+00	1.54E-03	3.76E-03	9.18E-04	-2.27E-02
ADPm[1]	[kg Sbe]	6.58E-04	1.04E-07	0.00E+00	1.48E-06	2.74E-06	1.29E-07	-7.34E-05
ADPf[1]	[MJ]	8.07E+02	3.99E-01	0.00E+00	6.27E+00	5.04E+00	2.12E+00	-8.93E+01
WDP[1]	[m^3e depr.]	7.21E+00	3.50E-03	0.00E+00	3.12E-02	5.31E-01	8.99E-02	-6.92E-01
Caption	GWP-total = Globale Warming Potential - total; 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 = Ozone Depletion; AP = Acidifcation; EP-freshwater = Eutrophication – aquatic freshwater; EP-marine = Eutrophication – aquatic marine; EP-terrestrial = Eutrophication – terrestrial; POCP = Photochemical zone formation; ADPm = Abiotic Depletion Potential – minerals and metals; ADPf = Abiotic Depletion Potential – fossil fuels; WDP = water depletion potential								
	The numbers are declared in scientific notation, fx 1.95E+02. This number can also be written as: $1.95*10^2$ or 195, while 1.12E-11 is the same as $1.12*10^{-11}$ or 0.0000000000112.							
Disclaimer	[1] The results of this environmental indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator.							

ADDITIONAL ENVIRONMENTAL IMPACTS FOR EI2-30 8-120								
Parameter	**Unit**	**A1-A3**	**A5**	**C1**	**C2**	**C3**	**C4**	**D**
PM	[Incidence]	1.62E-06	1.44E-08	0.00E+00	3.28E-08	3.81E-08	1.40E-08	-6.63E-07
IRP[2]	[kBq U235e]	1.68E+00	1.26E-03	0.00E+00	8.08E-03	5.75E-02	1.27E-03	-1.25E+00
ETP-fw[1]	[CTUe]	2.60E+02	7.47E-02	0.00E+00	8.34E-01	6.75E+00	1.37E+00	2.09E+01
HTP-c[1]	[CTUh]	1.03E-08	8.50E-12	0.00E+00	7.48E-11	5.25E-10	1.57E-11	1.32E-09
HTP-nc[1]	[CTUh]	2.96E-07	2.69E-10	0.00E+00	3.96E-09	2.53E-08	3.54E-10	3.08E-07
SQP[1]	-	3.72E+02	2.30E-01	0.00E+00	3.79E+00	5.77E+00	4.17E+00	-7.55E+01
Caption	The numbers are declared in scientific notation, fx 1.95E+02. This number can also be written as: $1.95*10^2$ or 195, while 1.12E-11 is the same as $1.12*10^{-11}$ or 0.0000000000112.							
	[1] The results of this environmental indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator.							
Disclaimers	[2] 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.							
	The numbers are declared in scientific notation, fx 1.95E+02. This number can also be written as: $1.95*10^2$ or 195, while 1.12E-11 is the same as $1.12*10^{-11}$ or 0.0000000000112.							

Resource use for EI2-30 8-120								
Parameter	**Unit**	**A1-A3**	**A5**	**C1**	**C2**	**C3**	**C4**	**D**
PERE	[MJ]	2.90E+02	-2.63E+00	0.00E+00	1.10E-01	-2.67E+02	1.99E-02	5.46E+01
PERM	[MJ]	2.06E+02	-1.96E+01	0.00E+00	0.00E+00	-1.86E+02	0.00E+00	2.28E+01
PERT	[MJ]	4.96E+02	-2.23E+01	0.00E+00	1.10E-01	-4.53E+02	1.99E-02	7.75E+01
PENRE	[MJ]	7.48E+02	-2.01E+00	0.00E+00	6.27E+00	-2.40E+01	2.12E+00	-8.93E+01
PENRM	[MJ]	3.37E+01	-2.58E+00	0.00E+00	0.00E+00	-3.11E+01	0.00E+00	0.00E+00
PENRT	[MJ]	7.82E+02	-4.59E+00	0.00E+00	6.27E+00	-5.51E+01	2.12E+00	-8.93E+01
SM	[Kg]	3.69E+00	3.57E-04	0.00E+00	2.91E-03	6.64E-03	5.28E-04	2.95E+00
RSF	[MJ]	4.21E+00	3.24E-06	0.00E+00	3.68E-05	1.55E-04	1.10E-05	-9.25E-04
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]	6.03E-01	8.20E-05	0.00E+00	8.54E-04	6.09E-03	2.20E-03	-1.84E-01
Caption	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 resources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non renewable secondary fuels; FW = Net use of fresh water							
	The numbers are declared in scientific notation, fx 1.95E+02. This number can also be written as: $1.95*10^2$ or 195, while 1.12E-11 is the same as $1.12*10^{-11}$ or 0.0000000000112.							

WASTE CATEGORIES AND OUTPUT FLOWS FOR EI2-30 8-120								
Parameter	**Unit**	**A1-A3**	**A5**	**C1**	**C2**	**C3**	**C4**	**D**
HWD	[kg]	1.53E+00	1.15E-03	0.00E+00	9.11E-03	9.04E-02	2.41E-03	2.78E+00
NHWD	[Kg]	3.72E+01	3.24E-02	0.00E+00	1.92E-01	1.29E+01	5.58E-02	5.53E+01
RWD	[Kg]	8.06E-03	3.21E-07	0.00E+00	2.01E-06	1.47E-05	3.10E-07	-3.21E-04
CRU	[Kg]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MFR	[Kg]	2.74E-03	1.72E+00	0.00E+00	0.00E+00	1.43E+01	0.00E+00	0.00E+00
MER	[Kg]	4.66E+00	0.00E+00	0.00E+00	0.00E+00	1.10E+01	0.00E+00	0.00E+00
EEE	[MJ]	7.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EET	[MJ]	2.99E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Caption	HWD = Hazardous waste disposed; NHWD = Non hazardous waste disposed; RWD = Radioactive waste disposed; CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported electrical energy; EET = Exported thermal energy							
	The numbers are declared in scientific notation, fx 1.95E+02. This number can also be written as: $1.95*10^2$ or 195, while 1.12E-11 is the same as $1.12*10^{-11}$ or 0.0000000000112.							

BIOGENIC CARBON CONTENT FOR EI2-30 8-120		
Parameter	**Unit**	**At the factory gate**
Biogenic carbon content in product	[kg C]	8.78
Biogenic carbon content in accompanying packaging	[kg C]	0.765
Note	1 kg biogenic carbon is equivalent to 44/12 kg of CO_2	

E2-60 7-87

ENVIRONMENTAL IMPACTS INDICATORS OF EI2-60 7-87								
Parameter	**Unit**	**A1-A3**	**A5**	**C1**	**C2**	**C3**	**C4**	**D**
GWP-total	[kg CO_2e]	2.19E+01	2.33E+00	0.00E+00	3.97E-01	3.09E+01	7.74E-02	-6.23E+00
GWP-fossil	[kg CO_2e]	5.41E+01	3.56E-02	0.00E+00	3.97E-01	2.09E+00	7.73E-02	-7.40E+00
GWP-biogenic	[kg CO_2e]	-3.23E+01	2.29E+00	0.00E+00	4.29E-05	2.88E+01	3.18E-05	1.17E+00
GWP-luluc	[kg CO_2e]	9.86E-02	1.58E-05	0.00E+00	1.43E-04	3.17E-04	4.43E-05	-6.56E-03
ODP	[Kg CFC-$_{11}$e]	1.35E-06	5.16E-10	0.00E+00	7.91E-09	5.35E-09	2.16E-09	-5.76E-08
AP	[mol H^+e]	2.12E-01	1.10E-04	0.00E+00	8.27E-04	2.81E-03	5.42E-04	-3.32E-02
EP-freshwater	[kg Pe]	7.08E-02	3.31E-06	0.00E+00	2.67E-05	1.43E-04	6.75E-06	-3.22E-03
EP-marine	[kg Ne]	4.55E-02	4.30E-05	0.00E+00	1.99E-04	1.36E-03	2.08E-04	-5.80E-03
EP-terrestrial	[mol Ne]	5.05E-01	4.11E-04	0.00E+00	2.14E-03	1.19E-02	2.27E-03	-8.20E-02
POCP	[kg NMVOCe]	2.14E-01	1.59E-04	0.00E+00	1.38E-03	3.24E-03	8.20E-04	-2.32E-02
ADPm[1]	[kg Sbe]	7.16E-04	1.04E-07	0.00E+00	1.32E-06	2.86E-06	1.16E-07	-8.23E-05
ADPf[1]	[MJ]	7.68E+02	3.99E-01	0.00E+00	5.59E+00	4.40E+00	1.89E+00	-8.66E+01
WDP[1]	[m^3e depr.]	7.07E+00	3.50E-03	0.00E+00	2.78E-02	4.53E-01	7.94E-02	-3.84E-01
Caption	GWP-total = Globale Warming Potential - total; 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 = Ozone Depletion; AP = Acidifcation; EP-freshwater = Eutrophication – aquatic freshwater; EP-marine = Eutrophication – aquatic marine; EP-terrestrial = Eutrophication – terrestrial; POCP = Photochemical zone formation; ADPm = Abiotic Depletion Potential – minerals and metals; ADPf = Abiotic Depletion Potential – fossil fuels; WDP = water depletion potential							
	The numbers are declared in scientific notation, fx 1.95E+02. This number can also be written as: $1.95*10^2$ or 195, while 1.12E-11 is the same as $1.12*10^{-11}$ or 0.0000000000112.							
Disclaimer	[1] The results of this environmental indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator.							

ADDITIONAL ENVIRONMENTAL IMPACTS FOR EI2-60 7-87								
Parameter	**Unit**	**A1-A3**	**A5**	**C1**	**C2**	**C3**	**C4**	**D**
PM	[Incidence]	1.38E-06	1.44E-08	0.00E+00	2.93E-08	3.58E-08	1.25E-08	-6.60E-07
IRP[2]	[kBq U235e]	1.67E+00	1.26E-03	0.00E+00	7.21E-03	5.07E-02	1.14E-03	-1.01E+00
ETP-fw[1]	[CTUe]	2.19E+02	7.47E-02	0.00E+00	7.43E-01	6.32E+00	1.21E+00	2.57E+01
HTP-c[1]	[CTUh]	1.04E-08	8.50E-12	0.00E+00	6.67E-11	4.77E-10	1.40E-11	1.40E-09
HTP-nc[1]	[CTUh]	2.68E-07	2.69E-10	0.00E+00	3.54E-09	2.20E-08	3.16E-10	3.62E-07
SQP[1]	-	3.32E+02	2.30E-01	0.00E+00	3.38E+00	6.05E+00	3.72E+00	-7.06E+01
Caption	PM = Particulate Matter emissions; IRP = Ionizing radiation – human health; ETP-fw = Eco toxicity – freshwater; HTP-c = Human toxicity – cancer effects; HTP-nc = Human toxicity – non cancer effects; SQP = Soil Quality (dimensionless)							
	The numbers are declared in scientific notation, fx 1.95E+02. This number can also be written as: $1.95*10^2$ or 195, while 1.12E-11 is the same as $1.12*10^{-11}$ or 0.0000000000112.							
Disclaimers	[1] The results of this environmental indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator.							
	[2] 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 for EI2-60 7-87								
Parameter	**Unit**	**A1-A3**	**A5**	**C1**	**C2**	**C3**	**C4**	**D**
PERE	[MJ]	2.89E+02	-2.63E+00	0.00E+00	9.78E-02	-2.18E+02	1.77E-02	3.92E+01
PERM	[MJ]	1.72E+02	-1.96E+01	0.00E+00	0.00E+00	-1.52E+02	0.00E+00	1.87E+01
PERT	[MJ]	4.61E+02	-2.23E+01	0.00E+00	9.78E-02	-3.70E+02	1.77E-02	5.80E+01
PENRE	[MJ]	7.21E+02	-2.01E+00	0.00E+00	5.59E+00	-2.21E+01	1.89E+00	-8.66E+01
PENRM	[MJ]	3.03E+01	-2.58E+00	0.00E+00	0.00E+00	-2.78E+01	0.00E+00	0.00E+00
PENRT	[MJ]	7.51E+02	-4.59E+00	0.00E+00	5.59E+00	-4.98E+01	1.89E+00	-8.66E+01
SM	[Kg]	3.60E+00	3.57E-04	0.00E+00	2.59E-03	5.94E-03	4.71E-04	3.38E+00
RSF	[MJ]	3.31E+00	3.24E-06	0.00E+00	3.28E-05	1.66E-04	9.84E-06	-9.90E-04
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]	5.69E-01	8.20E-05	0.00E+00	7.61E-04	5.31E-03	1.96E-03	-1.98E-01
Caption	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 resources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non renewable secondary fuels; FW = Net use of fresh water							
	The numbers are declared in scientific notation, fx 1.95E+02. This number can also be written as: $1.95*10^{2}$ or 195, while 1.12E-11 is the same as $1.12*10^{-11}$ or 0.0000000000112.							

WASTE CATEGORIES AND OUTPUT FLOWS FOR EI2-60 7-87								
Parameter	**Unit**	**A1-A3**	**A5**	**C1**	**C2**	**C3**	**C4**	**D**
HWD	[kg]	1.49E+00	1.15E-03	0.00E+00	8.12E-03	7.97E-02	2.15E-03	-3.14E+00
NHWD	[Kg]	3.51E+01	3.24E-02	0.00E+00	1.71E-01	1.08E+01	4.98E-02	6.65E+01
RWD	[Kg]	8.38E-03	3.21E-07	0.00E+00	1.79E-06	1.30E-05	2.77E-07	-2.63E-04
CRU	[Kg]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MFR	[Kg]	3.11E-03	1.72E+00	0.00E+00	0.00E+00	1.35E+01	0.00E+00	0.00E+00
MER	[Kg]	3.77E+00	0.00E+00	0.00E+00	0.00E+00	9.05E+00	0.00E+00	0.00E+00
EEE	[MJ]	6.25E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EET	[MJ]	2.63E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Caption	HWD = Hazardous waste disposed; NHWD = Non hazardous waste disposed; RWD = Radioactive waste disposed; CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported electrical energy; EET = Exported thermal energy							
	The numbers are declared in scientific notation, fx 1.95E+02. This number can also be written as: $1.95*10^{2}$ or 195, while 1.12E-11 is the same as $1.12*10^{-11}$ or 0.0000000000112.							

BIOGENIC CARBON CONTENT FOR EI2-60 7-87		
Parameter	**Unit**	**At the factory gate**
Biogenic carbon content in product	[kg C]	7.18
Biogenic carbon content in accompanying packaging	[kg C]	0.765
Note	1 kg biogenic carbon is equivalent to 44/12 kg of CO_2	

EI2-60 7-110

ENVIRONMENTAL IMPACTS INDICATORS OF EI2-60 7-110								
Parameter	**Unit**	**A1-A3**	**A5**	**C1**	**C2**	**C3**	**C4**	**D**
GWP-total	[kg CO_2e]	2.00E+01	2.33E+00	0.00E+00	4.58E-01	3.65E+01	9.16E-02	-6.36E+00
GWP-fossil	[kg CO_2e]	5.77E+01	3.56E-02	0.00E+00	4.58E-01	2.43E+00	9.15E-02	-7.74E+00
GWP-biogenic	[kg CO_2e]	-3.78E+01	2.29E+00	0.00E+00	4.83E-05	3.40E+01	3.82E-05	1.39E+00
GWP-luluc	[kg CO_2e]	1.02E-01	1.58E-05	0.00E+00	1.64E-04	3.56E-04	5.24E-05	-7.82E-03
ODP	[Kg CFC-$_{11}$e]	1.53E-06	5.16E-10	0.00E+00	9.11E-09	6.16E-09	2.55E-09	-6.65E-08
AP	[mol H^+e]	2.31E-01	1.10E-04	0.00E+00	9.52E-04	3.22E-03	6.41E-04	-3.58E-02
EP-freshwater	[kg Pe]	8.73E-02	3.31E-06	0.00E+00	3.08E-05	1.60E-04	7.98E-06	-3.49E-03
EP-marine	[kg Ne]	4.97E-02	4.30E-05	0.00E+00	2.29E-04	1.55E-03	2.46E-04	-6.35E-03
EP-terrestrial	[mol Ne]	5.61E-01	4.11E-04	0.00E+00	2.47E-03	1.38E-02	2.69E-03	-8.83E-02
POCP	[kg NMVOCe]	2.37E-01	1.59E-04	0.00E+00	1.58E-03	3.74E-03	9.69E-04	-2.47E-02
ADPm[1]	[kg Sbe]	7.07E-04	1.04E-07	0.00E+00	1.52E-06	2.95E-06	1.37E-07	-8.17E-05
ADPf[1]	[MJ]	8.37E+02	3.99E-01	0.00E+00	6.44E+00	5.03E+00	2.24E+00	-9.42E+01
WDP[1]	[m^3e depr.]	7.75E+00	3.50E-03	0.00E+00	3.20E-02	5.29E-01	9.47E-02	-6.07E-01
Caption	GWP-total = Globale Warming Potential - total; 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 = Ozone Depletion; AP = Acidifcation; EP-freshwater = Eutrophication – aquatic freshwater; EP-marine = Eutrophication – aquatic marine; EP-terrestrial = Eutrophication – terrestrial; POCP = Photochemical zone formation; ADPm = Abiotic Depletion Potential – minerals and metals; ADPf = Abiotic Depletion Potential – fossil fuels; WDP = water depletion potential							
	The numbers are declared in scientific notation, fx 1.95E+02. This number can also be written as: $1.95*10^2$ or 195, while 1.12E-11 is the same as $1.12*10^{-11}$ or 0.0000000000112.							
Disclaimer	[1] The results of this environmental indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator.							

ADDITIONAL ENVIRONMENTAL IMPACTS FOR EI2-60 7-110								
Parameter	**Unit**	**A1-A3**	**A5**	**C1**	**C2**	**C3**	**C4**	**D**
PM	[Incidence]	1.61E-06	1.44E-08	0.00E+00	3.37E-08	4.06E-08	1.47E-08	-7.11E-07
IRP[2]	[kBq U235e]	1.75E+00	1.26E-03	0.00E+00	8.30E-03	5.75E-02	1.34E-03	-1.20E+00
ETP-fw[1]	[CTUe]	2.49E+02	7.47E-02	0.00E+00	8.56E-01	7.13E+00	1.44E+00	2.38E+01
HTP-c[1]	[CTUh]	1.25E-08	8.50E-12	0.00E+00	7.68E-11	5.36E-10	1.66E-11	1.11E-09
HTP-nc[1]	[CTUh]	3.00E-07	2.69E-10	0.00E+00	4.07E-09	2.53E-08	3.73E-10	3.50E-07
SQP[1]	-	3.79E+02	2.30E-01	0.00E+00	3.89E+00	6.22E+00	4.40E+00	-7.97E+01
Caption	PM = Particulate Matter emissions; IRP = Ionizing radiation – human health; ETP-fw = Eco toxicity – freshwater; HTP-c = Human toxicity – cancer effects; HTP-nc = Human toxicity – non cancer effects; SQP = Soil Quality (dimensionless)							
	The numbers are declared in scientific notation, fx 1.95E+02. This number can also be written as: $1.95*10^2$ or 195, while 1.12E-11 is the same as $1.12*10^{-11}$ or 0.0000000000112.							
Disclaimers	[1] The results of this environmental indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator.							
	[2] 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 for EI2-60 7-110								
Parameter	**Unit**	**A1-A3**	**A5**	**C1**	**C2**	**C3**	**C4**	**D**
PERE	[MJ]	3.33E+02	-2.63E+00	0.00E+00	1.13E-01	-2.58E+02	2.10E-02	4.72E+01
PERM	[MJ]	2.00E+02	-1.96E+01	0.00E+00	0.00E+00	-1.80E+02	0.00E+00	2.22E+01
PERT	[MJ]	5.33E+02	-2.23E+01	0.00E+00	1.13E-01	-4.38E+02	2.10E-02	6.94E+01
PENRE	[MJ]	7.79E+02	-2.01E+00	0.00E+00	6.44E+00	-2.60E+01	2.24E+00	-9.42E+01
PENRM	[MJ]	3.53E+01	-2.58E+00	0.00E+00	0.00E+00	-3.27E+01	0.00E+00	0.00E+00
PENRT	[MJ]	8.15E+02	-4.59E+00	0.00E+00	6.44E+00	-5.87E+01	2.24E+00	-9.42E+01
SM	[Kg]	3.57E+00	3.57E-04	0.00E+00	2.99E-03	6.68E-03	5.57E-04	3.32E+00
RSF	[MJ]	3.87E+00	3.24E-06	0.00E+00	3.78E-05	1.69E-04	1.16E-05	-1.02E-03
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]	6.05E-01	8.20E-05	0.00E+00	8.77E-04	6.17E-03	2.32E-03	-2.01E-01
Caption	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 resources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non renewable secondary fuels; FW = Net use of fresh water							
	The numbers are declared in scientific notation, fx 1.95E+02. This number can also be written as: $1.95*10^{2}$ or 195, while 1.12E-11 is the same as $1.12*10^{-11}$ or 0.0000000000112.							

WASTE CATEGORIES AND OUTPUT FLOWS FOR EI2-60 7-110								
Parameter	**Unit**	**A1-A3**	**A5**	**C1**	**C2**	**C3**	**C4**	**D**
HWD	[kg]	1.58E+00	1.15E-03	0.00E+00	9.36E-03	9.15E-02	2.55E-03	-3.11E+00
NHWD	[Kg]	3.79E+01	3.24E-02	0.00E+00	1.98E-01	1.26E+01	5.89E-02	6.36E+01
RWD	[Kg]	8.62E-03	3.21E-07	0.00E+00	2.06E-06	1.47E-05	3.27E-07	-3.14E-04
CRU	[Kg]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MFR	[Kg]	3.46E-03	1.72E+00	0.00E+00	0.00E+00	1.49E+01	0.00E+00	0.00E+00
MER	[Kg]	4.54E+00	0.00E+00	0.00E+00	0.00E+00	1.07E+01	0.00E+00	0.00E+00
EEE	[MJ]	6.76E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EET	[MJ]	2.85E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Caption	HWD = Hazardous waste disposed; NHWD = Non hazardous waste disposed; RWD = Radioactive waste disposed; CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported electrical energy; EET = Exported thermal energy							
	The numbers are declared in scientific notation, fx 1.95E+02. This number can also be written as: $1.95*10^{2}$ or 195, while 1.12E-11 is the same as $1.12*10^{-11}$ or 0.0000000000112.							

BIOGENIC CARBON CONTENT FOR EI2-60 7-110		
Parameter	**Unit**	**At the factory gate**
Biogenic carbon content in product	[kg C]	8.50
Biogenic carbon content in accompanying packaging	[kg C]	0.765
Note	1 kg biogenic carbon is equivalent to 44/12 kg of CO_2	

EI2-60 7-120

ENVIRONMENTAL IMPACTS INDICATORS OF EI2-60 7-120								
Parameter	**Unit**	**A1-A3**	**A5**	**C1**	**C2**	**C3**	**C4**	**D**
GWP-total	[kg CO_2e]	2.07E+01	2.33E+00	0.00E+00	4.82E-01	3.78E+01	1.00E-01	-6.45E+00
GWP-fossil	[kg CO_2e]	5.96E+01	3.56E-02	0.00E+00	4.82E-01	2.58E+00	1.00E-01	-7.87E+00
GWP-biogenic	[kg CO_2e]	-3.91E+01	2.29E+00	0.00E+00	5.17E-05	3.52E+01	4.20E-05	1.44E+00
GWP-luluc	[kg CO_2e]	1.04E-01	1.58E-05	0.00E+00	1.73E-04	3.65E-04	5.73E-05	-8.16E-03
ODP	[Kg CFC-$_{11}$e]	1.61E-06	5.16E-10	0.00E+00	9.59E-09	6.36E-09	2.79E-09	-6.88E-08
AP	[mol H^+e]	2.40E-01	1.10E-04	0.00E+00	1.00E-03	3.33E-03	7.01E-04	-3.68E-02
EP-freshwater	[kg Pe]	9.50E-02	3.31E-06	0.00E+00	3.24E-05	1.64E-04	8.74E-06	-3.57E-03
EP-marine	[kg Ne]	5.17E-02	4.30E-05	0.00E+00	2.41E-04	1.61E-03	2.69E-04	-6.53E-03
EP-terrestrial	[mol Ne]	5.88E-01	4.11E-04	0.00E+00	2.60E-03	1.43E-02	2.94E-03	-9.06E-02
POCP	[kg NMVOCe]	2.47E-01	1.59E-04	0.00E+00	1.67E-03	3.88E-03	1.06E-03	-2.52E-02
ADPm[1]	[kg Sbe]	7.11E-04	1.04E-07	0.00E+00	1.60E-06	2.99E-06	1.49E-07	-8.19E-05
ADPf[1]	[MJ]	8.66E+02	3.99E-01	0.00E+00	6.78E+00	5.18E+00	2.45E+00	-9.65E+01
WDP[1]	[m^3e depr.]	8.04E+00	3.50E-03	0.00E+00	3.37E-02	5.52E-01	1.04E-01	-6.62E-01
Caption	GWP-total = Globale Warming Potential - total; 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 = Ozone Depletion; AP = Acidifcation; EP-freshwater = Eutrophication – aquatic freshwater; EP-marine = Eutrophication – aquatic marine; EP-terrestrial = Eutrophication – terrestrial; POCP = Photochemical zone formation; ADPm = Abiotic Depletion Potential – minerals and metals; ADPf = Abiotic Depletion Potential – fossil fuels; WDP = water depletion potential							
	The numbers are declared in scientific notation, fx 1.95E+02. This number can also be written as: $1.95*10^2$ or 195, while 1.12E-11 is the same as $1.12*10^{-11}$ or 0.0000000000112.							
Disclaimer	[1] The results of this environmental indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator.							

ADDITIONAL ENVIRONMENTAL IMPACTS FOR EI2-60 7-120								
Parameter	**Unit**	**A1-A3**	**A5**	**C1**	**C2**	**C3**	**C4**	**D**
PM	[Incidence]	1.71E-06	1.44E-08	0.00E+00	3.55E-08	4.19E-08	1.61E-08	-7.28E-07
IRP[2]	[kBq U235e]	1.82E+00	1.26E-03	0.00E+00	8.74E-03	5.90E-02	1.47E-03	-1.25E+00
ETP-fw[1]	[CTUe]	2.68E+02	7.47E-02	0.00E+00	9.02E-01	7.48E+00	1.58E+00	2.34E+01
HTP-c[1]	[CTUh]	1.35E-08	8.50E-12	0.00E+00	8.08E-11	5.54E-10	1.82E-11	1.03E-09
HTP-nc[1]	[CTUh]	3.16E-07	2.69E-10	0.00E+00	4.29E-09	2.62E-08	4.08E-10	3.48E-07
SQP[1]	-	4.04E+02	2.30E-01	0.00E+00	4.10E+00	6.28E+00	4.81E+00	-8.22E+01
Caption	PM = Particulate Matter emissions; IRP = Ionizing radiation – human health; ETP-fw = Eco toxicity – freshwater; HTP-c = Human toxicity – cancer effects; HTP-nc = Human toxicity – non cancer effects; SQP = Soil Quality (dimensionless)							
	The numbers are declared in scientific notation, fx 1.95E+02. This number can also be written as: $1.95*10^2$ or 195, while 1.12E-11 is the same as $1.12*10^{-11}$ or 0.0000000000112.							
Disclaimers	[1] The results of this environmental indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator.							
	[2] 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 for EI2-60 7-120								
Parameter	**Unit**	**A1-A3**	**A5**	**C1**	**C2**	**C3**	**C4**	**D**
PERE	[MJ]	3.47E+02	-2.63E+00	0.00E+00	1.19E-01	-2.67E+02	2.29E-02	4.85E+01
PERM	[MJ]	2.06E+02	-1.96E+01	0.00E+00	0.00E+00	-1.86E+02	0.00E+00	2.29E+01
PERT	[MJ]	5.53E+02	-2.23E+01	0.00E+00	1.19E-01	-4.53E+02	2.29E-02	7.13E+01
PENRE	[MJ]	8.05E+02	-2.01E+00	0.00E+00	6.78E+00	-2.80E+01	2.45E+00	-9.65E+01
PENRM	[MJ]	3.75E+01	-2.58E+00	0.00E+00	0.00E+00	-3.49E+01	0.00E+00	0.00E+00
PENRT	[MJ]	8.42E+02	-4.59E+00	0.00E+00	6.78E+00	-6.29E+01	2.45E+00	-9.65E+01
SM	[Kg]	3.57E+00	3.57E-04	0.00E+00	3.15E-03	6.87E-03	6.10E-04	3.32E+00
RSF	[MJ]	4.21E+00	3.24E-06	0.00E+00	3.98E-05	1.71E-04	1.27E-05	-1.04E-03
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]	6.32E-01	8.20E-05	0.00E+00	9.23E-04	6.45E-03	2.53E-03	-2.03E-01
Caption	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 resources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non renewable secondary fuels; FW = Net use of fresh water							
	The numbers are declared in scientific notation, fx 1.95E+02. This number can also be written as: $1.95*10^2$ or 195, while 1.12E-11 is the same as $1.12*10^{-11}$ or 0.0000000000112.							

WASTE CATEGORIES AND OUTPUT FLOWS FOR EI2-60 7-120								
Parameter	**Unit**	**A1-A3**	**A5**	**C1**	**C2**	**C3**	**C4**	**D**
HWD	[kg]	1.64E+00	1.15E-03	0.00E+00	9.85E-03	9.52E-02	2.79E-03	-3.12E+00
NHWD	[Kg]	3.93E+01	3.24E-02	0.00E+00	2.08E-01	1.31E+01	6.44E-02	6.32E+01
RWD	[Kg]	8.72E-03	3.21E-07	0.00E+00	2.17E-06	1.51E-05	3.58E-07	-3.27E-04
CRU	[Kg]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MFR	[Kg]	3.68E-03	1.72E+00	0.00E+00	0.00E+00	1.52E+01	0.00E+00	0.00E+00
MER	[Kg]	4.66E+00	0.00E+00	0.00E+00	0.00E+00	1.11E+01	0.00E+00	0.00E+00
EEE	[MJ]	7.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EET	[MJ]	2.99E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Caption	HWD = Hazardous waste disposed; NHWD = Non hazardous waste disposed; RWD = Radioactive waste disposed; CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported electrical energy; EET = Exported thermal energy							
	The numbers are declared in scientific notation, fx 1.95E+02. This number can also be written as: $1.95*10^2$ or 195, while 1.12E-11 is the same as $1.12*10^{-11}$ or 0.0000000000112.							

BIOGENIC CARBON CONTENT FOR EI2-60 7-120		
Parameter	**Unit**	**At the factory gate**
Biogenic carbon content in product	[kg C]	8.8
Biogenic carbon content in accompanying packaging	[kg C]	0.765
Note	1 kg biogenic carbon is equivalent to 44/12 kg of CO_2	

Additional information

Data quality has been assessed following EN 15804+A2, Annex E, Table E.1, considering geography, technology, and time. Most datasets are of good to very good quality. Overall, the data are considered representative, reliable, and suitable for this EPD.

LCA interpretation

Module A1 dominates the impacts across the majority of the core environmental indicators. This can be linked to the production of the raw materials. Production of steel components has the main negative impacts on the environmental impact indicators. Looking at the impact indicator climate change fossil in A1, the processing of steel is energy intensive. The second most contributing module is A3 due to its energy consumption during manufacturing.
Significant credits are also given from module D from recycling the wood and metals, but also incineration.

Technical information on scenarios

Based on a set scenario, it is assumed that the entire product will be transported 10 km to the nearest sorting/recycling station. At the station, the product undergoes dismantling and sorting into different fractions (wood, metals, plastic). Following sorting, all materials are then transported 50 km to their respective destinations for either incineration or recycling.

End of life (C1-C4)- Recycled in fractions for all loft ladders. Percentages in brackets represent the mass share (%) of the total material fraction (metal or wood) allocated to each end-of-life treatment process.

	Scenario information					
Product configuration	**Metal fraction**	**Value**	**Unit**	**Wood fraction**	**Value**	**Unit**
EI2-30, EW 8-87	Metal waste for recycling (90 %) Metal waste for landfill (10 %)	5.43 0.54	Kg	Wood waste for recycling into wood chips (50%)	7.793	Kg
EI2-30, EW 8-110	Metal waste for recycling (90 %) Metal waste for landfill (10 %)	5.28 0.53	Kg	Wood waste for recycling into wood chips (50%)	9.225	Kg
EI2-30, EW 8-120	Metal waste for recycling (90 %) Metal waste for landfill (10 %)	5.28 0.53	Kg	Wood waste for recycling into wood chips (50%)	9.522	Kg
EI2-60, EW 7-87	Metal waste for recycling (90 %) Metal waste for landfill (10 %)	6.05 0.61	Kg	Wood waste for recycling into wood chips (50%)	7.793	Kg
EI2-60, EW 7-110	Metal waste for recycling (90 %) Metal waste for landfill (10 %)	5.93 0.59	Kg	Wood waste for recycling into wood chips (50%)	9.225	Kg
EI2-60, EW 7-120	Metal waste for recycling (90 %) Metal waste for landfill (10 %)	5.93 0.59	Kg	Wood waste for recycling into wood chips (50%)	9.522	Kg

End of life (C1-C4)- Waste for municipal incineration for all loft ladders. Percentages in brackets represent the mass share (%) of the total material fraction (plastic/chemical and wood) allocated to each end-of-life treatment process.

	Scenario information					
Product configuration	Plastic fraction	Value	Unit	Wood fraction	Value	Unit
EI2-30, EW 8-87	Plastic/chemical fractions for incineration (100 %)	0.615	Kg	Waste wood for incineration (50 %)	8.282	Kg
EI2-30, EW 8-110	Plastic/chemical fractions for incineration (100 %)	0.674	Kg	Waste wood for incineration (50 %)	9.841	Kg
EI2-30, EW 8-120	Plastic/chemical fractions for incineration (100 %)	0.799	Kg	Waste wood for incineration (50 %)	10.194	Kg
EI2-60, EW 7-87	Plastic/chemical fractions for incineration (100 %)	0.729	Kg	Waste wood for incineration (50 %)	8.318	Kg
EI2-60, EW 7-110	Plastic/chemical fractions for incineration (100 %)	0.853	Kg	Waste wood for incineration (50 %)	9.841	Kg
EI2-60, EW 7-120	Plastic/chemical fractions for incineration (100 %)	0.913	Kg	Waste wood for incineration (50 %)	10.194	Kg

End of life (C1-C4)- Transport to recycling facility (similar for all loft ladders)

Scenario information	Value	Unit
Transport by truck to local sorting facility	10	km
Transport by truck to recycling or incineration facility	50	km
Amount of material in total		
EI2-30, EW 8-87	32.45	Kg
EI2-30, EW 8-110	37.17	Kg
EI2-30, EW 8-120	39.12	Kg
EI2-60, EW 7-87	34.89	Kg
EI2-60, EW 7-110	40.19	Kg
EI2-60, EW 7-120	42.31	Kg

Re-use. recovery and recycling potential (D)

Product configuration	**Avoided particle board production**	**Avoided steel production**	**Avoided Rockwool production**	**Avoided electricity production from burning wood**
	Volume [m^3]	Mass [kg]	Mass [kg]	Energy [MJ]
EI2-30 (BD-30) - EW 8-87	0.011	5.429	0	16.4
EI2-30 (BD-30) - EW 8-110	0.013	5.280	0	19.48
EI2-30 (BD-30) - EW 8-120	0.014	5.280	0	20.18
EI2-60 (BD-60) - EW 7-87	0.011	6.046	0.24	16.47
EI2-60 (BD-60) – EW 7-110	0.013	5.928	0.32	19.48
EI2-60 (BD-60) – EW 7-120	0.014	5.928	0.35	20.18

Indoor air

The EPD does not give information on release of dangerous substances to indoor air because the horizontal standards on the relevant measurements are not available. Read more in EN15804+A1 chapter 7.4.1.

Soil and water

The EPD does not give information on release of dangerous substances to soil and water because the horizontal standards on the relevant measurements are not available. Read more in EN15804+A1 chapter 7.4.2.

References

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