



RAW INNERDÖRR

EPD Declaration

This declaration confirms the identity of the RAW INNERDÖRR products and their relation to the attached EPD document-

RAW INNERDÖRR products are identical to and are produced at the same facilities as the products from AS Viljandi Aken ja Uks as described in the EPD. Therefore, the results and values noted in the EPD documents are also valid for the RAW products with the following product numbers:

Product no.	EAN	Product name
900222205	5710764440091	RAW INNERDÖRR IDA 9X21 VIT
900222197	5710764441616	RAW INNERDÖRR EVA 9X21 VIT 3SPEG
900222196	5710764441609	RAW INNERDÖRR EVA 8X21 VIT 3SPEG
900222204	5710764440206	RAW INNERDÖRR IDA 8X21 VIT
900222213	5710764440114	RAW INNERDÖRR SIV 9X21 VIT 3SPEG
900297699	5715666009131	RAW INNERDÖRR ANNA 9X21 SLÄT WC
900222212	5710764440121	RAW INNERDÖRR SIV 8X21 VIT 3SPEG
900297636	5715666008509	RAW INNERDÖRR IDA 9X21 0500-N
900222195	5710764441623	RAW INNERDÖRR EVA 7X21 VIT 3SPEG
900222200	5710764444068	RAW INNERDÖRR EVA 8X20 VIT 3SPEG
900222203	5710764440084	RAW INNERDÖRR IDA 7X21 VIT
900232107	7340009558991	RAW INNERDÖRR LUCAS 9X21 S0500-N
900297700	5715666009148	RAW INNERDÖRR ANNA 9X21 SLÄT WC
900222216	5710764444198	RAW INNERDÖRR SIV 8X20VIT 3SPEG
900297634	5715666008486	RAW INNERDÖRR IDA 8X21 0500-N
900222199	5710764444051	RAW INNERDÖRR EVA 7X20 VIT 3SPEG
900222206	5710764444129	RAW INNERDÖRR IDA 10X21 VIT
900222201	5710764444075	RAW INNERDÖRR EVA 9X20 VIT 3SPEG
900222211	5710764440107	RAW INNERDÖRR SIV 7X21 VIT 3SPEG
900222217	5710764444167	RAW INNERDÖRR SIV 9X20 VIT 3SPEG
900222208	5710764444136	RAW INNERDÖRR IDA 8X20 VIT
900222209	5710764444112	RAW INNERDÖRR IDA 9X20 VIT



900297696	5715666009100	RAW INNERDÖRR ANNA 7X21 SLÄT WC
900297697	5715666009117	RAW INNERDÖRR ANNA 8X21 SLÄT WC
900222215	5710764444150	RAW INNERDÖRR SIV 7X20VIT 3SPEG
900222207	5710764444105	RAW INNERDÖRR IDA 7X20 VIT
900297694	5715666009087	RAW INNERDÖRR ANNA 10X21 SLÄT WC
900222198	5710764444099	RAW INNERDÖRR EVA 10X21 VIT 3SPEG
900297695	5715666009094	RAW INNERDÖRR ANNA 7X21 SLÄT WC
900297632	5715666008462	RAW INNERDÖRR IDA 7X21 0500-N
900222214	5710764444181	RAW INNERDÖRR SIV 10X21 VIT 3SPEG
900297633	5715666008479	RAW INNERDÖRR IDA 8X20 0500-N
900297698	5715666009124	RAW INNERDÖRR ANNA 8X21 SLÄT WC
900297638	5715666008523	RAW INNERDÖRR IDA 10X21 0500-N
900297693	5715666009070	RAW INNERDÖRR ANNA 10X21 SLÄT RAW
900297635	5715666008493	RAW INNERDÖRR IDA 9X20 0500-N
900297631	5715666008455	RAW INNERDÖRR IDA 7X20 0500-N
900232106	7340009558984	RAW INNERDÖRR LUCAS 8X21 S0500-N
900222202	5710764444082	RAW INNERDÖRR EVA 10X20 VIT 3SPEG
900297637	5715666008516	RAW INNERDÖRR IDA 10X20 0500-N
900232105	7340009558977	RAW INNERDÖRR LUCAS 7X21 S0500-N

December 2025

Özlem Avcı
Operational Excellence Manager

RAW A/S, Denmark

ENVIRONMENTAL PRODUCT DECLARATION

IN ACCORDANCE WITH EN 15804+A2 & ISO 14025 / ISO 21930

AS VILJANDI AKEN JA UKS

LIGHT INTERNAL DOORS

LIGHT INTERNAL DOORS WITH GLASS

FLUSH MASSIVE INTERNAL DOORS

FLUSH MASSIVE INTERNAL DOORS WITH GLASS

MOULDED MASSIVE INTERNAL DOORS

MOULDED MASSIVE INTERNAL DOORS WITH GLASS

GENERAL INFORMATION

MANUFACTURER INFORMATION

Manufacturer	AS Viljandi Aken ja Uks
Address	Puidu 6, Viljandi, Estonia
Contact details	vau@vau.ee
Website	www.vau.ee
Place(s) of production	Estonia

The Building Information Foundation RTS sr


EPDs within the same product category but from different programmes may not be comparable.

Jukka Seppänen
RTS EPD Committee Secretary

Laura Apilo
Managing Director

EPD INFORMATION

The EPD owner has the sole ownership, liability, and responsibility for the EPD. Construction products EPDs may not be comparable if they do not comply with EN 15804 and if they are not compared in a building context.

EPD program operator	The Building Information Foundation RTS sr
EPD standards	This EPD is in accordance with EN 15804+A2 and ISO 14025 standards.
Product category rules	The CEN standard EN 15804 serves as the core PCR. In addition, the RTS PCR (English version, 26.8.2020); EN 17213:2020 is used.
EPD author	Mari Kirss Rangi Maja OÜ www.lcasupport.com
EPD verification	Independent verification of this EPD and data, according to ISO 14025:2010: <input type="checkbox"/> Internal certification <input checked="" type="checkbox"/> External verification
Verification date	21 December 2022
EPD verifier	Sigita Židonienė Vesta Consulting UAB  www.vestaconsulting.lt
EPD number	RTS_202_23
Publishing date	11.1.2023
EPD valid until	11.1.2028

PRODUCT INFORMATION

PRODUCT NAME

- Light internal doors moulded and flush (non-rebated and rebated)
- Light internal doors with glass moulded and flush (non-rebated and rebated)
- Flush massive internal doors (non-rebated and rebated)
- Flush massive internal doors with glass (non-rebated and rebated)
- Moulded massive internal doors (non-rebated and rebated)
- Moulded massive internal doors with glass (non-rebated and rebated)

PRODUCT DESCRIPTION AND APPLICATION

Light or massive, rebated or non-rebated wooden internal doors with or without glass

TECHNICAL SPECIFICATIONS

Size: one sided M7-10 x 20-21; extended M13,4 x 20-21; double sided M13,4;15,4;17,4;19,4 x 20-21. The declared unit has been based on one sided M 9 x 21 door.

Door leaf: rebated or non-rebated, thickness 40mm

Fittings: lock case 2014; hinges FT-65 or 6540

Glass: clear, diamante, cotzwold or satinovo

The declared unit includes fittings but not frames or extras.

PRODUCT STANDARDS

EVS-EN 14351-2:2019

PHYSICAL PROPERTIES OF THE PRODUCT AND ADDITIONAL TECHNICAL INFORMATION

Product properties and further information can be found on the manufacturer website www.vau.ee



PRODUCT RAW MATERIAL MAIN COMPOSITION

	Light internal door	Light internal door with glass	Massive internal door	Massive internal door with glass	Massive moulded internal door	Massive moulded internal door with glass
MDF, HDF, particleboard and other wood-based materials (kg)	12.9	11.7	23.9	22.5	34.7	33.1
Glass (kg)	0.0	7.9	0.0	7.7	0.0	8.0
Adhesives and coatings (kg)	1.1	1.1	1.0	1.0	1.2	1.2
Metals (kg)	<1	<1	<1	<1	<1	<1
Plastic (kg)	0.0	1.4	0.0	0.9	0.0	1.8
Other materials (kg)	<1	<1	<1	<1	<1	<1
Packaging (kg)	3.0	3.0	3.0	3.0	3.0	3.0
Total (kg)	14.7	22.7	25.3	32.6	36.3	44.5
Total with packaging (kg)	17.8	25.7	28.4	35.6	39.4	47.6

Raw material category	Amount, mass- %	Material origin
Metals	1-3%	Europe
Minerals	0-35%	Europe
Fossil materials	3-11%	Europe
Bio-based materials	53-96%	Global

SUBSTANCES, REACH - VERY HIGH CONCERN

The product does not contain any REACH SVHC substances in amounts greater than 0,1 % (1000 ppm).

Light internal doors –
moulded, non-rebated, rebated or flush



Light internal doors with glass –
moulded, non-rebated, rebated or flush



Flush massive internal doors -
non-rebated or rebated

Flush massive internal doors with glass -
non-rebated or rebated

Moulded massive internal doors –
non-rebated or rebated



Moulded massive internal doors with glass –
non-rebated or rebated

ABOUT THE MANUFACTURER

Viljandi Aken ja Uks has been one of the largest producers of windows and doors in the Baltic for thirty years, with the aim of producing high-quality windows and doors. The company has seen consistent growth over the years, which has resulted in us becoming one of the largest Scandinavian producers of windows and doors.

Currently, you can find our production units in Viljandi, Võru County and Latvia. Our sales offices are in Viljandi, Tallinn, Stockholm, Riga, Vilnius and Klaipeda.

Starting with 35 employees in 1990, we are now one of the largest employers in Viljandi County, providing employment for more than 600 people.

The range of products has been constantly expanding based on customer needs and market demand. The company has implemented a quality management system in accordance with the requirements of the ISO 9001 standard. Due to the growth of the company, we have constantly expanded our production areas, which today make up over 51,600m².

Over time, we have invested in modern equipment and production lines to provide our customers with faster delivery times and production that meets today's standards and quality requirements.

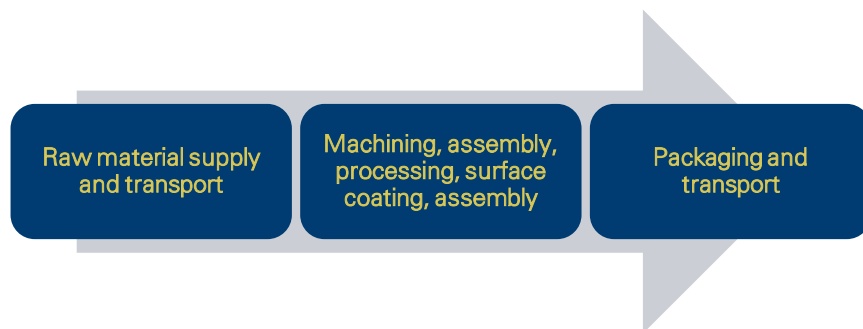


PRODUCT LIFE-CYCLE

MANUFACTURING AND PACKAGING (A1-A3)

The environmental impacts considered for the product stage cover the manufacturing of raw materials used in the production as well as packaging materials and other ancillary materials. Also, fuels used by machines, and handling of waste formed in the production processes at the manufacturing facilities are included in this stage. The study also considers the material losses occurring during the manufacturing processes as well as losses during electricity transmission.

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The production process begins with unpacking raw materials. After raw materials have been processed the door leaf will be assembled and glued together using hot pressing method. When the door leaf has been pressed it will get a opening for the glazing if necessary and then surface coating. After surface coating door leaves will dry and will be equipped with necessary ironmongery, glazing and seals. Depending on the door type and order the door will be equipped with a frame and assembled as a set. Before packing and stacking door panels to transportation pallets, final quality checks will be conducted. After that the products will be ready for transportation to the construction site.

TRANSPORT AND INSTALLATION (A4-A5)

Transportation impacts occurred from final products delivery to construction site (A4) cover fuel direct exhaust emissions, environmental impacts of fuel production, as well as related infrastructure emissions.

The transportation distance is defined according to RTS PCR. The typical installation place was assumed as an weighted average. According to the manufacturer, transportation doesn't cause losses as products are packaged properly. The final product is transported 1000 km by lorry. Vehicle capacity utilization volume factor is assumed to be 1.

Environmental impacts from installation into the building (A5) include the product installation losses, emissions of energy use in installation and generation of waste at the construction site.

No Product waste is generated during installation. Packaging waste comes from the packaging used for the final products. No water is



needed for the installation process. The fasteners have been excluded as cut-off has been applied.

PRODUCT USE AND MAINTENANCE (B1-B7)

This EPD does not cover the use phase.

Air, soil, and water impacts during the use phase have not been studied.

PRODUCT END OF LIFE (C1-C4, D)

EOL scenarios have been based on default scenarios given in standard EN 17213:2020. It is estimated that there is no mass loss during the use phase of the product. Therefore the end-of-life product is assumed to have the same weight with the declared product. Losses in the sorting process are assumed to be very small and not considered in the assessment.

In the demolition phase, 100% of the waste is assumed to be collected as separate waste (C1). No fuels are assumed to be needed for demolition. 95% of non-glass and 30% of glass is assumed to be sent to the closest facilities (C2) for recycling. Vehicle capacity utilization volume factor is assumed to be 1. 30% of total glass and 95% of total metals is recycled; 95% of total plastics and 95% of total timber is incinerated with energy recovery (C3). 5% of total non-glass and 70% of total glass is landfilled (C4). Cut-off has been applied to exclude fasteners and extras.

Benefits of recyclable waste generated in the Module C3 are considered in Module D. It is assumed that glass is used as aggregates and metals are remelted. Plastics and timber are assumed to be incinerated for energy recovery.

LIFE-CYCLE ASSESSMENT INFORMATION

Period for data	2021
Declared unit	1 m2
Mass per declared unit	Light internal doors - 14.7 kg Light internal doors with glass - 22.7 kg Flush massive internal doors - 25.3 kg Flush massive internal doors with glass - 32.6 kg Moulded massive internal doors - 36.3 kg Moulded massive internal doors with glass - 44.5 kg

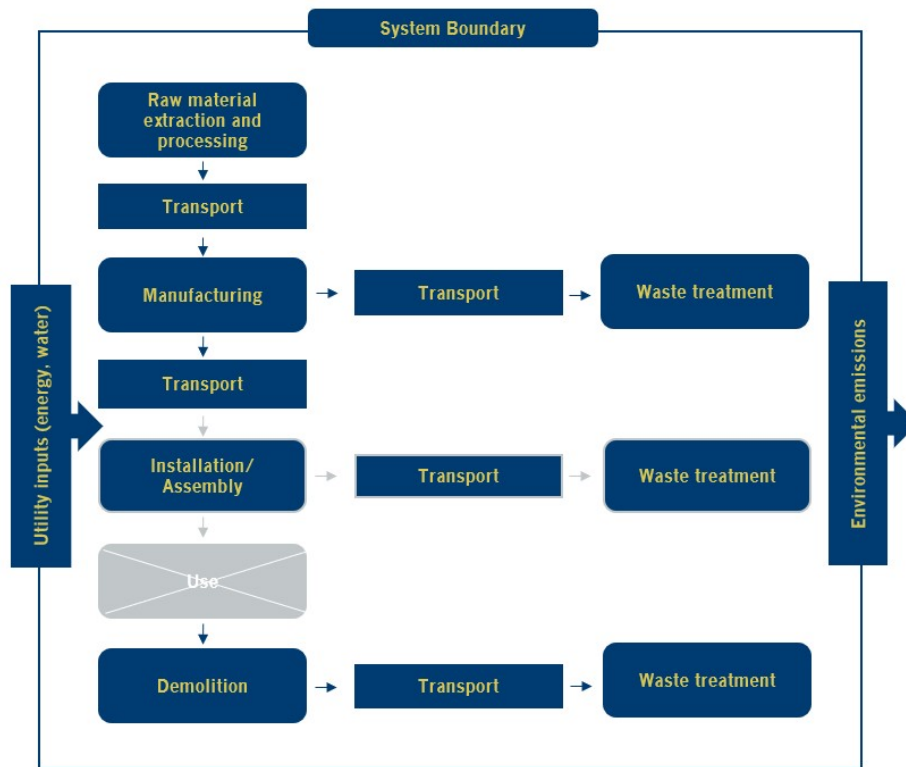
BIOGENIC CARBON CONTENT AT GATE

Biogenic carbon content in product	Light internal doors - 5.8 kg Light internal doors with glass - 5.4 kg Flush massive internal doors - 10.3 kg Flush massive internal doors with glass - 9.8 kg Moulded massive internal doors - 14.8 kg Moulded massive internal doors with glass - 14.2 kg
Biogenic carbon content in packaging	1.25 kg

Note. 1 kg biogenic carbon is equivalent to 44/12 kg of biogenic CO2.

SYSTEM BOUNDARY

The scope of the EPD is cradle to gate with options (A4 and A5), modules C1–C4 and module D.



Product stage			Assembly stage		Use stage								End of life stage				Beyond the system boundaries		
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D	D	D	
x	x	x	x	x	MND	MND	MND	MND	MND	MND	MND	x	x	x	x	x	x	x	
Raw materials	Transport	Manufacturing	Transport	Assembly	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	Deconstr./demol.	Transport	Waste processing	Disposal	Reuse	Recovery	Recycling	

Modules not declared = MND. Modules not relevant = MNR.

CUT-OFF CRITERIA

The study does not exclude any modules or processes which are stated mandatory in the EN 15804:2012+A2:2019 and the applied PCR. The study does not exclude any hazardous materials or substances.

The study includes all major raw material and energy consumption. All inputs and outputs of the unit processes, for which data is available for, are included in the calculation. There is no neglected unit process more than 1% of total mass or energy flows. The module specific total neglected input and output flows also do not exceed 5% of energy usage or mass.

Cut-off has only been applied in A5 and EOL to exclude fasteners.

BIOGENIC CARBON AND GWP-BIOGENIC

Biogenic carbon content in Products and packaging has been calculated according to EN 16449. Irrespective of the chosen allocation for co-products, biogenic carbon content reflects physical flows.

In the ecoinvent database, datasets with multiple products are allocated in the attributional system models, most frequently using price. When products have large difference in value, this leads to an allocation of most of the impacts to the more valuable product and can lead to a discrepancy between the biogenic carbon content of a product and the amount allocated to it based on the life cycle inventory (Ruiz et al, 2021). Therefore, GWP-biogenic values have been recalculated based on EN 16449 and EN 16485:2014. Carbon sequestration and carbon neutrality has only been assumed for sustainable wood (FSC-certified).

Share of biogenic carbon originating from sustainable (FSC-certified) sources	
Light internal doors	100%
Light internal doors with glass	93%
Flush massive internal doors	86%
Flush massive internal doors with glass	81%
Moulded massive internal doors	81%
Moulded massive internal doors with glass	78%

SCENARIO DOCUMENTATION

Manufacturing energy scenario documentation

Scenario parameter	Value
Electricity data source and quality	Modelled electricity based on Estonian residual mix for 2020-2021
Electricity CO _{2e} / kWh	0.60

Transport scenario documentation (A4)

Scenario parameter	Value
Specific transport CO _{2e} emissions, kg CO _{2e} / tkm	0.094
Average transport distance, km	1000 km by lorry
Capacity utilization (including empty return) %	100
Volume capacity utilization factor	=1
Bulk density of transported products (including packaging), kg/m ³ :	
Light internal doors - 17.8 kg	
Light internal doors with glass - 25.7 kg	
Flush massive internal doors - 28.4 kg	
Flush massive internal doors with glass - 35.6 kg	
Moulded massive internal doors - 39.4 kg	
Moulded massive internal doors with glass - 47.6 kg	

End of life scenario documentation

Scenario parameter	Light internal door	Light internal door with glass	Massive internal door	Massive internal door with glass	Massive moulded internal door	Massive moulded internal door
Collection process – kg collected separately	14.7	22.7	25.3	32.6	36.3	44.5
Collection process – kg collected with mixed waste	0.0	0.0	0.0	0.0	0.0	0.0
Recovery process – kg for re-use	0.0	0.0	0.0	0.0	0.0	0.0
Recovery process – kg for recycling	0.4	2.7	0.4	2.7	0.4	2.7
Recovery process – kg for energy recovery	14.4	20.0	25.0	29.9	36.0	41.8
Disposal (total) – kg for final deposition	0.7	6.8	1.3	7.2	1.8	8.0
Scenario assumptions e.g. transportation	End-of-life product is transported 250 km with an average lorry					

ENVIRONMENTAL IMPACT DATA

LIGHT INTERNAL DOORS

CORE ENVIRONMENTAL IMPACT INDICATORS – EN 15804+A2, PEF

Impact category	Unit	A1-A2	A3	A1-A3	A4	A5	C1	C2	C3	C4	D
GWP – total	kg CO _{2e}	1.94E+00	2.03E+01	2.22E+01	1.67E+00	3.85E+00	0.00E+00	6.26E-01	4.21E+01	8.10E-03	-2.05E+01
GWP – fossil	kg CO _{2e}	2.77E+01	1.33E+01	4.10E+01	1.67E+00	1.58E+00	0.00E+00	6.26E-01	1.12E+00	8.10E-03	-2.06E+01
GWP – biogenic	kg CO _{2e}	-2.63E+01	6.74E+00	-1.95E+01	9.23E-04	2.27E+00	0.00E+00	2.47E-04	4.09E+01	6.26E-05	4.51E-03
GWP – LULUC	kg CO _{2e}	4.79E-01	3.02E-01	7.81E-01	5.15E-04	3.33E-05	0.00E+00	2.36E-04	4.78E-03	3.75E-06	3.98E-03
Ozone depletion pot.	kg CFC-11e	2.66E-06	9.48E-07	3.61E-06	3.73E-07	1.09E-08	0.00E+00	1.40E-07	2.16E-08	2.43E-09	-1.64E-06
Acidification potential	mol H ⁺ e	2.06E-01	7.31E-02	2.79E-01	7.10E-03	9.70E-04	0.00E+00	2.65E-03	2.71E-03	6.63E-05	-3.67E-02
EP-freshwater	kg Pe	2.58E-03	4.86E-04	3.07E-03	1.58E-05	1.91E-06	0.00E+00	6.26E-06	3.68E-06	1.33E-07	-5.41E-05
EP-marine	kg Ne	3.49E-02	1.15E-02	4.65E-02	2.13E-03	4.24E-04	0.00E+00	7.73E-04	1.23E-03	2.21E-05	-7.77E-03
EP-terrestrial	mol Ne	4.55E-01	1.33E-01	5.88E-01	2.31E-02	4.24E-03	0.00E+00	8.47E-03	1.29E-02	2.50E-04	-8.39E-02
POCP (“smog”)	kg NMVOCe	1.31E-01	3.93E-02	1.71E-01	7.46E-03	1.06E-03	0.00E+00	2.61E-03	3.14E-03	7.14E-05	-3.02E-02
ADP-minerals & metals	kg Sbe	2.35E-03	5.35E-05	2.40E-03	2.84E-05	1.91E-06	0.00E+00	1.69E-05	3.77E-06	8.10E-08	-1.10E-05
ADP-fossil resources	MJ	3.95E+02	2.50E+02	6.45E+02	2.54E+01	9.09E-01	0.00E+00	9.42E+00	2.18E+00	1.84E-01	-3.10E+02
Water use	m ³ e depr.	2.03E+01	4.09E+00	2.44E+01	1.08E-01	1.15E-01	0.00E+00	3.61E-02	-6.97E-02	8.10E-03	-9.04E-01

GWP = Global Warming Potential; EP = Eutrophication potential; POCP = Photochemical ozone formation; ADP = Abiotic depletion potential.

EN 15804+A2 disclaimer for Abiotic depletion and Water use and optional indicators except Particulate matter and Ionizing radiation, human health. The results of these environmental impact indicators shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator.

USE OF NATURAL RESOURCES

Impact category	Unit	A1-A2	A3	A1-A3	A4	A5	C1	C2	C3	C4	D
Renew. PER as energy	MJ	2.39E+02	1.55E+01	2.54E+02	2.66E-01	2.97E-02	0.00E+00	1.07E-01	5.67E-02	3.02E-03	1.55E+02
Renew. PER as material	MJ	2.07E+02	-2.00E+01	1.87E+02	0.00E+00	-2.35E+01	0.00E+00	0.00E+00	-1.55E+02	-8.15E+00	0.00E+00
Total use of renew. PER	MJ	4.46E+02	-4.55E+00	4.41E+02	2.66E-01	-2.35E+01	0.00E+00	1.07E-01	-1.55E+02	-8.15E+00	1.55E+02
Non-re. PER as energy	MJ	3.92E+02	2.40E+02	6.32E+02	2.54E+01	9.09E-01	0.00E+00	9.42E+00	2.18E+00	1.84E-01	-3.07E+02
Non-re. PER as material	MJ	2.93E+00	1.00E+01	1.30E+01	0.00E+00	-1.00E+01	0.00E+00	0.00E+00	-2.78E+00	-1.47E-01	0.00E+00
Total use of non-re. PER	MJ	3.95E+02	2.50E+02	6.45E+02	2.54E+01	-9.13E+00	0.00E+00	9.42E+00	-6.04E-01	3.75E-02	-3.07E+02
Secondary materials	kg	1.06E-01	8.61E-03	1.14E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-01
Renew. secondary fuels	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E+02
Non-ren. secondary fuels	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E+01
Use of net fresh water	m ³	2.17E-01	6.06E-02	2.78E-01	5.33E-03	4.85E-03	0.00E+00	1.62E-03	6.15E-03	2.06E-04	-8.07E-02

PER = Primary energy Resources

END OF LIFE – WASTE

Impact category	Unit	A1-A2	A3	A1-A3	A4	A5	C1	C2	C3	C4	D
Hazardous waste	kg	2.04E+00	1.15E+00	3.19E+00	3.02E-02	1.09E-01	0.00E+00	1.21E-02	1.55E-01	3.17E-04	-1.92E-01
Non-hazardous waste	kg	4.95E+01	2.01E+01	6.96E+01	2.84E+00	2.91E+00	0.00E+00	6.99E-01	1.42E+01	7.36E-01	-2.09E+00
Radioactive waste	kg	9.93E-04	8.84E-04	1.88E-03	1.70E-04	3.00E-06	0.00E+00	6.26E-05	5.47E-06	1.10E-06	-2.52E-05

END OF LIFE – OUTPUT FLOWS

Impact category	Unit	A1-A2	A3	A1-A3	A4	A5	C1	C2	C3	C4	D
Components for re-use	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for recycling	kg	0.00E+00	8.32E-02	8.32E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-01	0.00E+00	0.00E+00
Materials for energy rec	kg	0.00E+00	1.04E+00	1.04E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exported energy	MJ	0.00E+00	1.05E+01	1.05E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E+02	0.00E+00	0.00E+00

KEY INFORMATION TABLE (RTS) – KEY INFORMATION PER KG OF PRODUCT

Impact category	Unit	A1-A2	A3	A1-A3	A4	A5	C1	C2	C3	C4	D
GWP – total	kg CO ₂ e	1.31E-01	1.38E+00	1.51E+00	1.13E-01	2.61E-01	0.00E+00	4.25E-02	2.86E+00	5.50E-04	-1.40E+00
ADP-minerals & metals	kg Sbe	1.60E-04	3.64E-06	1.63E-04	1.93E-06	1.30E-07	0.00E+00	1.15E-06	2.56E-07	5.50E-09	-7.44E-07
ADP-fossil	MJ	2.68E+01	1.70E+01	4.38E+01	1.72E+00	6.17E-02	0.00E+00	6.40E-01	1.48E-01	1.25E-02	-2.11E+01
Water use	m ³ e depr.	1.38E+00	2.78E-01	1.65E+00	7.36E-03	7.82E-03	0.00E+00	2.45E-03	-4.73E-03	5.50E-04	-6.14E-02
Secondary materials	kg	7.17E-03	5.85E-04	7.75E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-02
Biog. C in product	kg C	N/A	3.93E-01	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Biog. C in packaging	kg C	N/A	8.49E-02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

ENVIRONMENTAL IMPACTS – EN 15804+A1, CML / ISO 21930

Impact category	Unit	A1-A2	A3	A1-A3	A4	A5	C1	C2	C3	C4	D
Global Warming Pot.	kg CO ₂ e	2.74E+01	1.28E+01	4.02E+01	1.65E+00	1.58E+00	0.00E+00	6.26E-01	1.12E+00	7.36E-03	-1.93E+01
Ozone depletion Pot.	kg CFC-11e	2.26E-06	9.39E-07	3.20E-06	3.02E-07	1.09E-08	0.00E+00	1.10E-07	1.91E-08	1.91E-09	-1.26E-06
Acidification	kg SO ₂ e	1.67E-01	6.02E-02	2.28E-01	4.97E-03	6.67E-04	0.00E+00	1.95E-03	1.90E-03	5.30E-04	-3.01E-02
Eutrophication	kg PO ₄ ³ e	5.23E-02	1.74E-02	6.97E-02	1.12E-03	8.79E-04	0.00E+00	4.42E-04	2.16E-03	1.10E-05	-4.45E-03
POCP (“smog”)	kg C ₂ H ₄ e	1.07E-02	4.15E-03	1.49E-02	2.13E-04	1.85E-05	0.00E+00	8.47E-05	4.12E-05	1.99E-06	-2.79E-03
ADP-elements	kg Sbe	2.35E-03	5.35E-05	2.40E-03	2.84E-05	1.91E-06	0.00E+00	1.69E-05	3.77E-06	8.10E-08	-1.10E-05
ADP-fossil	MJ	3.95E+02	2.50E+02	6.45E+02	2.54E+01	9.09E-01	0.00E+00	9.42E+00	2.18E+00	1.84E-01	-3.10E+02

LIGHT INTERNAL DOORS WITH GLASS

CORE ENVIRONMENTAL IMPACT INDICATORS – EN 15804+A2, PEF

Impact category	Unit	A1-A2	A3	A1-A3	A4	A5	C1	C2	C3	C4	D
GWP – total	kg CO _{2e}	1.31E+01	3.36E+01	4.67E+01	2.42E+00	3.85E+00	0.00E+00	9.65E-01	4.89E+01	6.04E-02	-2.56E+01
GWP – fossil	kg CO _{2e}	4.29E+01	1.20E+01	5.49E+01	2.42E+00	1.58E+00	0.00E+00	9.65E-01	7.08E+00	6.04E-02	-2.71E+01
GWP – biogenic	kg CO _{2e}	-3.02E+01	1.96E+01	-1.07E+01	1.34E-03	2.27E+00	0.00E+00	3.80E-04	4.03E+01	1.81E-04	2.97E-03
GWP – LULUC	kg CO _{2e}	4.89E-01	2.01E+00	2.50E+00	7.46E-04	3.33E-05	0.00E+00	3.63E-04	1.47E+00	2.53E-05	1.47E+00
Ozone depletion pot.	kg CFC-11e	5.13E-06	7.75E-07	5.90E-06	5.40E-07	1.09E-08	0.00E+00	2.16E-07	4.96E-08	1.97E-08	-2.17E-06
Acidification potential	mol H ⁺ e	3.23E-01	6.78E-02	3.91E-01	1.03E-02	9.70E-04	0.00E+00	4.09E-03	5.07E-03	5.01E-04	-4.82E-02
EP-freshwater	kg Pe	3.04E-03	4.44E-04	3.48E-03	2.29E-05	1.91E-06	0.00E+00	9.65E-06	8.24E-06	8.38E-07	-6.98E-05
EP-marine	kg Ne	5.57E-02	1.10E-02	6.66E-02	3.09E-03	4.24E-04	0.00E+00	1.19E-03	2.27E-03	1.71E-04	-1.02E-02
EP-terrestrial	mol Ne	7.06E-01	1.26E-01	8.31E-01	3.35E-02	4.24E-03	0.00E+00	1.31E-02	2.33E-02	1.92E-03	-1.10E-01
POCP (“smog”)	kg NMVOCe	1.97E-01	3.50E-02	2.32E-01	1.08E-02	1.06E-03	0.00E+00	4.03E-03	5.74E-03	5.54E-04	-3.91E-02
ADP-minerals & metals	kg Sbe	2.61E-03	3.98E-05	2.65E-03	4.12E-05	1.91E-06	0.00E+00	2.61E-05	8.23E-06	8.02E-07	-1.66E-05
ADP-fossil resources	MJ	6.64E+02	2.11E+02	8.75E+02	3.68E+01	9.09E-01	0.00E+00	1.45E+01	4.47E+00	1.37E+00	-4.10E+02
Water use	m ³ e depr.	2.68E+01	1.97E+00	2.87E+01	1.57E-01	1.15E-01	0.00E+00	5.56E-02	3.14E-01	5.33E-02	-1.21E+00

GWP = Global Warming Potential; EP = Eutrophication potential; POCP = Photochemical ozone formation; ADP = Abiotic depletion potential.

EN 15804+A2 disclaimer for Abiotic depletion and Water use and optional indicators except Particulate matter and Ionizing radiation, human health. The results of these environmental impact indicators shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator.

USE OF NATURAL RESOURCES

Impact category	Unit	A1-A2	A3	A1-A3	A4	A5	C1	C2	C3	C4	D
Renew. PER as energy	MJ	2.91E+02	1.38E+01	3.05E+02	3.86E-01	2.97E-02	0.00E+00	1.65E-01	1.45E-01	1.68E-02	1.72E+02
Renew. PER as material	MJ	2.81E+02	-7.34E+01	2.07E+02	0.00E+00	-2.35E+01	0.00E+00	0.00E+00	-1.72E+02	-9.07E+00	0.00E+00
Total use of renew. PER	MJ	5.72E+02	-5.96E+01	5.12E+02	3.86E-01	-2.35E+01	0.00E+00	1.65E-01	-1.72E+02	-9.05E+00	1.72E+02
Non-re. PER as energy	MJ	5.95E+02	2.01E+02	7.96E+02	3.68E+01	9.09E-01	0.00E+00	1.45E+01	4.47E+00	1.37E+00	-3.45E+02
Non-re. PER as material	MJ	6.88E+01	1.00E+01	7.89E+01	0.00E+00	-1.00E+01	0.00E+00	0.00E+00	-6.54E+01	-3.44E+00	0.00E+00
Total use of non-re. PER	MJ	6.64E+02	2.11E+02	8.75E+02	3.68E+01	-9.13E+00	0.00E+00	1.45E+01	-6.09E+01	-2.07E+00	-3.45E+02
Secondary materials	kg	1.36E-01	3.50E-03	1.39E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E+00
Renew. secondary fuels	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E+02
Non-ren. secondary fuels	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.35E+01
Use of net fresh water	m ³	4.43E+01	5.74E-02	4.43E+01	7.72E-03	4.85E-03	0.00E+00	2.50E-03	2.00E-02	1.30E-03	-1.09E-01

PER = Primary energy resources

END OF LIFE – WASTE

Impact category	Unit	A1-A2	A3	A1-A3	A4	A5	C1	C2	C3	C4	D
Hazardous waste	kg	2.37E+00	1.13E+00	3.50E+00	4.38E-02	1.09E-01	0.00E+00	1.87E-02	3.88E-01	1.77E-03	-2.37E-01
Non-hazardous waste	kg	6.28E+01	2.21E+01	8.49E+01	4.12E+00	2.91E+00	0.00E+00	1.08E+00	2.00E+01	6.79E+00	-2.78E+00
Radioactive waste	kg	1.63E-03	7.93E-04	2.42E-03	2.47E-04	3.00E-06	0.00E+00	9.65E-05	1.35E-05	9.09E-06	-4.13E-05

END OF LIFE – OUTPUT FLOWS

Impact category	Unit	A1-A2	A3	A1-A3	A4	A5	C1	C2	C3	C4	D
Components for re-use	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for recycling	kg	0.00E+00	8.32E-02	8.32E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E+00	0.00E+00	0.00E+00
Materials for energy rec	kg	0.00E+00	4.95E+00	4.95E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exported energy	MJ	0.00E+00	5.04E+01	5.04E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+02	0.00E+00	0.00E+00

KEY INFORMATION TABLE (RTS) – KEY INFORMATION PER KG OF PRODUCT

Impact category	Unit	A1-A2	A3	A1-A3	A4	A5	C1	C2	C3	C4	D
GWP – total	kg CO ₂ e	5.76E-01	1.48E+00	2.06E+00	1.07E-01	1.69E-01	0.00E+00	4.25E-02	2.15E+00	2.66E-03	-1.13E+00
ADP-minerals & metals	kg Sbe	1.15E-04	1.75E-06	1.17E-04	1.81E-06	8.41E-08	0.00E+00	1.15E-06	3.62E-07	3.53E-08	-7.31E-07
ADP-fossil	MJ	2.92E+01	9.30E+00	3.85E+01	1.62E+00	4.00E-02	0.00E+00	6.40E-01	1.97E-01	6.02E-02	-1.81E+01
Water use	m ³ e depr.	1.18E+00	8.68E-02	1.27E+00	6.91E-03	5.07E-03	0.00E+00	2.45E-03	1.38E-02	2.35E-03	-5.35E-02
Secondary materials	kg	5.98E-03	1.54E-04	6.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-01
Biog. C in product	kg C	N/A	2.36E-01	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Biog. C in packaging	kg C	N/A	5.50E-02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

ENVIRONMENTAL IMPACTS – EN 15804+A1, CML / ISO 21930

Impact category	Unit	A1-A2	A3	A1-A3	A4	A5	C1	C2	C3	C4	D
Global Warming Pot.	kg CO ₂ e	4.24E+01	1.17E+01	5.40E+01	2.39E+00	1.58E+00	0.00E+00	9.65E-01	7.08E+00	5.86E-02	-2.54E+01
Ozone depletion Pot.	kg CFC-11e	4.45E-06	7.87E-07	5.24E-06	4.38E-07	1.09E-08	0.00E+00	1.70E-07	4.77E-08	1.55E-08	-1.67E-06
Acidification	kg SO ₂ e	2.09E-01	5.55E-02	2.64E-01	7.21E-03	6.67E-04	0.00E+00	3.01E-03	3.83E-03	1.12E-03	-3.94E-02
Eutrophication	kg PO ₄ ³ e	6.62E-02	1.62E-02	8.24E-02	1.62E-03	8.79E-04	0.00E+00	6.81E-04	3.95E-03	6.17E-05	-5.75E-03
POCP (“smog”)	kg C ₂ H ₄ e	1.34E-02	3.03E-03	1.64E-02	3.09E-04	1.85E-05	0.00E+00	1.31E-04	8.51E-05	1.45E-05	-3.56E-03
ADP-elements	kg Sbe	2.61E-03	3.98E-05	2.65E-03	4.12E-05	1.91E-06	0.00E+00	2.61E-05	8.23E-06	8.02E-07	-1.66E-05
ADP-fossil	MJ	6.64E+02	2.11E+02	8.75E+02	3.68E+01	9.09E-01	0.00E+00	1.45E+01	4.47E+00	1.37E+00	-4.10E+02

FLUSH MASSIVE INTERNAL DOORS

CORE ENVIRONMENTAL IMPACT INDICATORS – EN 15804+A2, PEF

Impact category	Unit	A1-A2	A3	A1-A3	A4	A5	C1	C2	C3	C4	D
GWP – total	kg CO ₂ e	4.01E+00	2.71E+01	3.12E+01	2.67E+00	3.85E+00	0.00E+00	1.08E+00	7.42E+01	1.39E-02	-3.03E+01
GWP – fossil	kg CO ₂ e	4.29E+01	1.26E+01	5.54E+01	2.67E+00	1.58E+00	0.00E+00	1.08E+00	1.51E+00	1.39E-02	-3.56E+01
GWP – biogenic	kg CO ₂ e	-3.92E+01	8.16E+00	-3.11E+01	1.48E-03	2.27E+00	0.00E+00	4.24E-04	6.73E+01	1.08E-04	5.39E-03
GWP – LULUC	kg CO ₂ e	3.51E-01	6.45E+00	6.80E+00	8.23E-04	3.33E-05	0.00E+00	4.05E-04	5.25E+00	6.46E-06	5.24E+00
Ozone depletion pot.	kg CFC-11e	4.97E-06	8.52E-07	5.82E-06	5.96E-07	1.09E-08	0.00E+00	2.41E-07	3.54E-08	4.18E-09	-2.86E-06
Acidification potential	mol H ⁺ e	3.22E-01	6.99E-02	3.92E-01	1.13E-02	9.70E-04	0.00E+00	4.56E-03	4.58E-03	1.14E-04	-6.27E-02
EP-freshwater	kg Pe	3.24E-03	4.63E-04	3.70E-03	2.52E-05	1.91E-06	0.00E+00	1.08E-05	5.99E-06	2.28E-07	-7.91E-05
EP-marine	kg Ne	5.35E-02	1.11E-02	6.46E-02	3.40E-03	4.24E-04	0.00E+00	1.33E-03	2.09E-03	3.80E-05	-1.33E-02
EP-terrestrial	mol Ne	7.60E-01	1.27E-01	8.87E-01	3.69E-02	4.24E-03	0.00E+00	1.46E-02	2.20E-02	4.31E-04	-1.44E-01
POCP (“smog”)	kg NMVOCe	2.14E-01	3.65E-02	2.51E-01	1.19E-02	1.06E-03	0.00E+00	4.50E-03	5.33E-03	1.23E-04	-5.09E-02
ADP-minerals & metals	kg Sbe	2.80E-03	4.56E-05	2.85E-03	4.54E-05	1.91E-06	0.00E+00	2.91E-05	6.19E-06	1.39E-07	-1.87E-05
ADP-fossil resources	MJ	6.65E+02	2.29E+02	8.94E+02	4.06E+01	9.09E-01	0.00E+00	1.62E+01	3.63E+00	3.17E-01	-5.39E+02
Water use	m ³ e depr.	3.86E+01	2.97E+00	4.16E+01	1.73E-01	1.15E-01	0.00E+00	6.21E-02	-1.64E-01	1.39E-02	-1.53E+00

GWP = Global Warming Potential; EP = Eutrophication potential; POCP = Photochemical ozone formation; ADP = Abiotic depletion potential.

EN 15804+A2 disclaimer for Abiotic depletion and Water use and optional indicators except Particulate matter and Ionizing radiation, human health. The results of these environmental impact indicators shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator.

USE OF NATURAL RESOURCES

Impact category	Unit	A1-A2	A3	A1-A3	A4	A5	C1	C2	C3	C4	D
Renew. PER as energy	MJ	4.90E+02	1.46E+01	5.05E+02	4.25E-01	2.97E-02	0.00E+00	1.84E-01	9.15E-02	5.19E-03	4.29E+02
Renew. PER as material	MJ	5.42E+02	-5.40E+01	4.88E+02	0.00E+00	-2.35E+01	0.00E+00	0.00E+00	-4.30E+02	-2.26E+01	0.00E+00
Total use of renew. PER	MJ	1.03E+03	-3.94E+01	9.93E+02	4.25E-01	-2.35E+01	0.00E+00	1.84E-01	-4.30E+02	-2.26E+01	4.29E+02
Non-re. PER as energy	MJ	6.55E+02	2.19E+02	8.74E+02	4.06E+01	9.09E-01	0.00E+00	1.62E+01	3.63E+00	3.17E-01	-5.30E+02
Non-re. PER as material	MJ	1.02E+01	1.00E+01	2.03E+01	0.00E+00	-1.00E+01	0.00E+00	0.00E+00	-9.73E+00	-5.12E-01	0.00E+00
Total use of non-re. PER	MJ	6.65E+02	2.29E+02	8.94E+02	4.06E+01	-9.13E+00	0.00E+00	1.62E+01	-6.10E+00	-1.95E-01	-5.30E+02
Secondary materials	kg	1.12E-01	5.85E-03	1.18E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-01
Renew. secondary fuels	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E+02
Non-ren. secondary fuels	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E+01
Use of net fresh water	m ³	2.65E-01	5.83E-02	3.23E-01	8.51E-03	4.85E-03	0.00E+00	2.79E-03	9.50E-03	3.55E-04	-1.39E-01

PER = Primary energy resources

END OF LIFE – WASTE

Impact category	Unit	A1-A2	A3	A1-A3	A4	A5	C1	C2	C3	C4	D
Hazardous waste	kg	2.62E+00	1.12E+00	3.74E+00	4.82E-02	1.09E-01	0.00E+00	2.09E-02	2.44E-01	5.45E-04	-2.93E-01
Non-hazardous waste	kg	6.94E+01	1.88E+01	8.82E+01	4.54E+00	2.91E+00	0.00E+00	1.20E+00	2.46E+01	1.27E+00	-3.13E+00
Radioactive waste	kg	1.79E-03	8.34E-04	2.62E-03	2.72E-04	3.00E-06	0.00E+00	1.08E-04	8.86E-06	1.90E-06	-4.50E-05

END OF LIFE – OUTPUT FLOWS

Impact category	Unit	A1-A2	A3	A1-A3	A4	A5	C1	C2	C3	C4	D
Components for re-use	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for recycling	kg	0.00E+00	8.32E-02	8.32E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-01	0.00E+00	0.00E+00
Materials for energy rec	kg	0.00E+00	8.18E-01	8.18E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exported energy	MJ	0.00E+00	8.26E+00	8.26E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E+02	0.00E+00	0.00E+00

KEY INFORMATION TABLE (RTS) – KEY INFORMATION PER KG OF PRODUCT

Impact category	Unit	A1-A2	A3	A1-A3	A4	A5	C1	C2	C3	C4	D
GWP – total	kg CO ₂ e	1.58E-01	1.07E+00	1.23E+00	1.05E-01	1.52E-01	0.00E+00	4.25E-02	2.93E+00	5.50E-04	-1.20E+00
ADP-minerals & metals	kg Sbe	1.11E-04	1.80E-06	1.12E-04	1.79E-06	7.53E-08	0.00E+00	1.15E-06	2.44E-07	5.50E-09	-7.40E-07
ADP-fossil	MJ	2.63E+01	9.03E+00	3.53E+01	1.60E+00	3.59E-02	0.00E+00	6.40E-01	1.43E-01	1.25E-02	-2.13E+01
Water use	m ³ e depr.	1.52E+00	1.17E-01	1.64E+00	6.83E-03	4.54E-03	0.00E+00	2.45E-03	-6.49E-03	5.50E-04	-6.02E-02
Secondary materials	kg	4.43E-03	2.31E-04	4.66E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-02
Biog. C in product	kg C	N/A	4.06E-01	4.06E-01	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Biog. C in packaging	kg C	N/A	4.93E-02	4.93E-02	N/A	N/A	N/A	N/A	N/A	N/A	N/A

ENVIRONMENTAL IMPACTS – EN 15804+A1, CML / ISO 21930

Impact category	Unit	A1-A2	A3	A1-A3	A4	A5	C1	C2	C3	C4	D
Global Warming Pot.	kg CO ₂ e	4.21E+01	1.22E+01	5.43E+01	2.64E+00	1.58E+00	0.00E+00	1.08E+00	1.51E+00	1.27E-02	-3.34E+01
Ozone depletion Pot.	kg CFC-11e	4.14E-06	8.55E-07	5.00E-06	4.82E-07	1.09E-08	0.00E+00	1.90E-07	3.08E-08	3.29E-09	-2.19E-06
Acidification	kg SO ₂ e	2.51E-01	5.74E-02	3.08E-01	7.94E-03	6.67E-04	0.00E+00	3.36E-03	3.22E-03	9.12E-04	-5.14E-02
Eutrophication	kg PO ₄ ³ e	8.04E-02	1.64E-02	9.68E-02	1.79E-03	8.79E-04	0.00E+00	7.60E-04	3.60E-03	1.90E-05	-7.12E-03
POCP (“smog”)	kg C ₂ H ₄ e	1.73E-02	3.53E-03	2.08E-02	3.40E-04	1.85E-05	0.00E+00	1.46E-04	6.83E-05	3.42E-06	-4.59E-03
ADP-elements	kg Sbe	2.80E-03	4.56E-05	2.85E-03	4.54E-05	1.91E-06	0.00E+00	2.91E-05	6.19E-06	1.39E-07	-1.87E-05
ADP-fossil	MJ	6.65E+02	2.29E+02	8.94E+02	4.06E+01	9.09E-01	0.00E+00	1.62E+01	3.63E+00	3.17E-01	-5.39E+02

FLUSH MASSIVE INTERNAL DOORS WITH GLASS

CORE ENVIRONMENTAL IMPACT INDICATORS – EN 15804+A2, PEF

Impact category	Unit	A1-A2	A3	A1-A3	A4	A5	C1	C2	C3	C4	D
GWP – total	kg CO _{2e}	1.37E+01	4.12E+01	5.49E+01	3.35E+00	3.85E+00	0.00E+00	1.39E+00	7.93E+01	6.51E-02	-3.45E+01
GWP – fossil	kg CO _{2e}	5.65E+01	1.20E+01	6.85E+01	3.35E+00	1.58E+00	0.00E+00	1.39E+00	6.31E+00	6.51E-02	-4.12E+01
GWP – biogenic	kg CO _{2e}	-4.31E+01	2.11E+01	-2.20E+01	1.85E-03	2.27E+00	0.00E+00	5.46E-04	6.62E+01	2.22E-04	4.12E-03
GWP – LULUC	kg CO _{2e}	3.61E-01	8.12E+00	8.48E+00	1.03E-03	3.33E-05	0.00E+00	5.22E-04	6.67E+00	2.75E-05	6.67E+00
Ozone depletion pot.	kg CFC-11e	7.03E-06	7.72E-07	7.80E-06	7.48E-07	1.09E-08	0.00E+00	3.10E-07	6.03E-08	2.11E-08	-3.32E-06
Acidification potential	mol H ⁺ e	4.33E-01	6.77E-02	5.01E-01	1.43E-02	9.70E-04	0.00E+00	5.87E-03	6.63E-03	5.40E-04	-7.28E-02
EP-freshwater	kg Pe	3.62E-03	4.43E-04	4.06E-03	3.17E-05	1.91E-06	0.00E+00	1.39E-05	1.02E-05	9.17E-07	-9.40E-05
EP-marine	kg Ne	7.30E-02	1.10E-02	8.39E-02	4.28E-03	4.24E-04	0.00E+00	1.71E-03	2.98E-03	1.84E-04	-1.54E-02
EP-terrestrial	mol Ne	9.96E-01	1.25E-01	1.12E+00	4.63E-02	4.24E-03	0.00E+00	1.87E-02	3.09E-02	2.07E-03	-1.67E-01
POCP (“smog”)	kg NMVOCe	2.74E-01	3.49E-02	3.09E-01	1.50E-02	1.06E-03	0.00E+00	5.79E-03	7.57E-03	5.96E-04	-5.87E-02
ADP-minerals & metals	kg Sbe	3.15E-03	3.95E-05	3.19E-03	5.70E-05	1.91E-06	0.00E+00	3.75E-05	1.02E-05	8.46E-07	-2.39E-05
ADP-fossil resources	MJ	8.86E+02	2.11E+02	1.10E+03	5.10E+01	9.09E-01	0.00E+00	2.09E+01	5.67E+00	1.48E+00	-6.26E+02
Water use	m ³ e depr.	4.41E+01	1.94E+00	4.61E+01	2.17E-01	1.15E-01	0.00E+00	7.99E-02	1.62E-01	5.81E-02	-1.80E+00

GWP = Global Warming Potential; EP = Eutrophication potential; POCP = Photochemical ozone formation; ADP = Abiotic depletion potential.

EN 15804+A2 disclaimer for Abiotic depletion and Water use and optional indicators except Particulate matter and Ionizing radiation, human health. The results of these environmental impact indicators shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator.

USE OF NATURAL RESOURCES

Impact category	Unit	A1-A2	A3	A1-A3	A4	A5	C1	C2	C3	C4	D
Renew. PER as energy	MJ	5.39E+02	1.38E+01	5.53E+02	5.34E-01	2.97E-02	0.00E+00	2.36E-01	1.71E-01	1.87E-02	4.44E+02
Renew. PER as material	MJ	6.14E+02	-1.08E+02	5.05E+02	0.00E+00	-2.35E+01	0.00E+00	0.00E+00	-4.44E+02	-2.34E+01	0.00E+00
Total use of renew. PER	MJ	1.15E+03	-9.46E+01	1.06E+03	5.34E-01	-2.35E+01	0.00E+00	2.36E-01	-4.44E+02	-2.34E+01	4.44E+02
Non-re. PER as energy	MJ	8.33E+02	2.01E+02	1.03E+03	5.10E+01	9.09E-01	0.00E+00	2.09E+01	5.67E+00	1.48E+00	-5.76E+02
Non-re. PER as material	MJ	5.30E+01	1.00E+01	6.30E+01	0.00E+00	-1.00E+01	0.00E+00	0.00E+00	-5.03E+01	-2.65E+00	0.00E+00
Total use of non-re. PER	MJ	8.86E+02	2.11E+02	1.10E+03	5.10E+01	-9.13E+00	0.00E+00	2.09E+01	-4.47E+01	-1.17E+00	-5.76E+02
Secondary materials	kg	1.42E-01	3.41E-03	1.45E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E+00
Renew. secondary fuels	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E+02
Non-ren. secondary fuels	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.24E+01
Use of net fresh water	m ³	2.89E+01	5.73E-02	2.89E+01	1.07E-02	4.85E-03	0.00E+00	3.59E-03	2.13E-02	1.42E-03	-1.63E-01

PER = Primary energy resources

END OF LIFE – WASTE

Impact category	Unit	A1-A2	A3	A1-A3	A4	A5	C1	C2	C3	C4	D
Hazardous waste	kg	2.92E+00	1.13E+00	4.05E+00	6.06E-02	1.09E-01	0.00E+00	2.69E-02	4.58E-01	1.96E-03	-3.34E-01
Non-hazardous waste	kg	8.10E+01	2.19E+01	1.03E+02	5.70E+00	2.91E+00	0.00E+00	1.55E+00	2.98E+01	7.20E+00	-3.77E+00
Radioactive waste	kg	2.36E-03	7.92E-04	3.15E-03	3.42E-04	3.00E-06	0.00E+00	1.39E-04	1.62E-05	9.72E-06	-5.93E-05

END OF LIFE – OUTPUT FLOWS

Impact category	Unit	A1-A2	A3	A1-A3	A4	A5	C1	C2	C3	C4	D
Components for re-use	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for recycling	kg	0.00E+00	8.32E-02	8.32E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E+00	0.00E+00	0.00E+00
Materials for energy rec	kg	0.00E+00	4.77E+00	4.77E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exported energy	MJ	0.00E+00	4.86E+01	4.86E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E+02	0.00E+00	0.00E+00

KEY INFORMATION TABLE (RTS) – KEY INFORMATION PER KG OF PRODUCT

Impact category	Unit	A1-A2	A3	A1-A3	A4	A5	C1	C2	C3	C4	D
GWP – total	kg CO ₂ e	4.21E-01	1.26E+00	1.68E+00	1.03E-01	1.18E-01	0.00E+00	4.25E-02	2.43E+00	2.00E-03	-1.06E+00
ADP-minerals & metals	kg Sbe	9.66E-05	1.21E-06	9.78E-05	1.75E-06	5.86E-08	0.00E+00	1.15E-06	3.12E-07	2.60E-08	-7.34E-07
ADP-fossil	MJ	2.72E+01	6.46E+00	3.36E+01	1.56E+00	2.79E-02	0.00E+00	6.40E-01	1.74E-01	4.52E-02	-1.92E+01
Water use	m ³ e depr.	1.35E+00	5.94E-02	1.41E+00	6.67E-03	3.53E-03	0.00E+00	2.45E-03	4.96E-03	1.78E-03	-5.53E-02
Secondary materials	kg	4.34E-03	1.05E-04	4.45E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.31E-02
Biog. C in product	kg C	N/A	3.00E-01	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Biog. C in packaging	kg C	N/A	3.83E-02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

ENVIRONMENTAL IMPACTS – EN 15804+A1, CML / ISO 21930

Impact category	Unit	A1-A2	A3	A1-A3	A4	A5	C1	C2	C3	C4	D
Global Warming Pot.	kg CO ₂ e	5.55E+01	1.17E+01	6.72E+01	3.31E+00	1.58E+00	0.00E+00	1.39E+00	6.31E+00	6.28E-02	-3.87E+01
Ozone depletion Pot.	kg CFC-11e	5.93E-06	7.85E-07	6.71E-06	6.06E-07	1.09E-08	0.00E+00	2.45E-07	5.61E-08	1.66E-08	-2.55E-06
Acidification	kg SO ₂ e	2.88E-01	5.54E-02	3.43E-01	9.98E-03	6.67E-04	0.00E+00	4.32E-03	4.91E-03	1.47E-03	-5.96E-02
Eutrophication	kg PO ₄ ³ e	9.23E-02	1.62E-02	1.08E-01	2.24E-03	8.79E-04	0.00E+00	9.78E-04	5.23E-03	6.85E-05	-8.30E-03
POCP (“smog”)	kg C ₂ H ₄ e	1.95E-02	3.01E-03	2.25E-02	4.28E-04	1.85E-05	0.00E+00	1.87E-04	1.07E-04	1.56E-05	-5.27E-03
ADP-elements	kg Sbe	3.15E-03	3.95E-05	3.19E-03	5.70E-05	1.91E-06	0.00E+00	3.75E-05	1.02E-05	8.46E-07	-2.39E-05
ADP-fossil	MJ	8.86E+02	2.11E+02	1.10E+03	5.10E+01	9.09E-01	0.00E+00	2.09E+01	5.67E+00	1.48E+00	-6.26E+02

MOULDED MASSIVE INTERNAL DOORS

CORE ENVIRONMENTAL IMPACT INDICATORS – EN 15804+A2, PEF

Impact category	Unit	A1-A2	A3	A1-A3	A4	A5	C1	C2	C3	C4	D
GWP – total	kg CO _{2e}	5.98E+00	3.42E+01	4.02E+01	3.70E+00	3.85E+00	0.00E+00	1.54E+00	1.07E+02	2.00E-02	-4.09E+01
GWP – fossil	kg CO _{2e}	5.83E+01	1.23E+01	7.06E+01	3.70E+00	1.58E+00	0.00E+00	1.54E+00	2.04E+00	2.00E-02	-5.11E+01
GWP – biogenic	kg CO _{2e}	-5.28E+01	9.69E+00	-4.31E+01	2.05E-03	2.27E+00	0.00E+00	6.09E-04	9.46E+01	1.54E-04	6.05E-03
GWP – LULUC	kg CO _{2e}	4.39E-01	1.22E+01	1.27E+01	1.14E-03	3.33E-05	0.00E+00	5.82E-04	1.02E+01	9.27E-06	1.02E+01
Ozone depletion pot.	kg CFC-11e	7.23E-06	8.18E-07	8.04E-06	8.27E-07	1.09E-08	0.00E+00	3.45E-07	5.03E-08	6.00E-09	-4.12E-06
Acidification potential	mol H ⁺ e	4.48E-01	6.87E-02	5.17E-01	1.58E-02	9.70E-04	0.00E+00	6.54E-03	6.56E-03	1.64E-04	-8.96E-02
EP-freshwater	kg Pe	3.97E-03	4.54E-04	4.42E-03	3.50E-05	1.91E-06	0.00E+00	1.54E-05	8.51E-06	3.27E-07	-1.04E-04
EP-marine	kg Ne	7.34E-02	1.09E-02	8.43E-02	4.73E-03	4.24E-04	0.00E+00	1.91E-03	2.99E-03	5.45E-05	-1.90E-02
EP-terrestrial	mol Ne	1.06E+00	1.25E-01	1.19E+00	5.12E-02	4.24E-03	0.00E+00	2.09E-02	3.15E-02	6.18E-04	-2.05E-01
POCP (“smog”)	kg NMVOCe	2.99E-01	3.55E-02	3.34E-01	1.65E-02	1.06E-03	0.00E+00	6.45E-03	7.64E-03	1.76E-04	-7.21E-02
ADP-minerals & metals	kg Sbe	3.16E-03	4.28E-05	3.20E-03	6.30E-05	1.91E-06	0.00E+00	4.18E-05	8.80E-06	2.00E-07	-2.68E-05
ADP-fossil resources	MJ	9.34E+02	2.21E+02	1.15E+03	5.63E+01	9.09E-01	0.00E+00	2.33E+01	5.19E+00	4.54E-01	-7.77E+02
Water use	m ³ e depr.	5.57E+01	2.58E+00	5.83E+01	2.40E-01	1.15E-01	0.00E+00	8.91E-02	-2.50E-01	2.00E-02	-2.17E+00

GWP = Global Warming Potential; EP = Eutrophication potential; POCP = Photochemical ozone formation; ADP = Abiotic depletion potential.

EN 15804+A2 disclaimer for Abiotic depletion and Water use and optional indicators except Particulate matter and Ionizing radiation, human health. The results of these environmental impact indicators shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator.

USE OF NATURAL RESOURCES

Impact category	Unit	A1-A2	A3	A1-A3	A4	A5	C1	C2	C3	C4	D
Renew. PER as energy	MJ	7.42E+02	1.42E+01	7.56E+02	5.91E-01	2.97E-02	0.00E+00	2.64E-01	1.30E-01	7.45E-03	6.94E+02
Renew. PER as material	MJ	8.66E+02	-8.86E+01	7.77E+02	0.00E+00	-2.35E+01	0.00E+00	0.00E+00	-6.94E+02	-3.65E+01	0.00E+00
Total use of renew. PER	MJ	1.61E+03	-7.43E+01	1.53E+03	5.91E-01	-2.35E+01	0.00E+00	2.64E-01	-6.94E+02	-3.65E+01	6.94E+02
Non-re. PER as energy	MJ	9.23E+02	2.11E+02	1.13E+03	5.63E+01	9.09E-01	0.00E+00	2.33E+01	5.19E+00	4.54E-01	-7.67E+02
Non-re. PER as material	MJ	1.02E+01	1.00E+01	2.03E+01	0.00E+00	-1.00E+01	0.00E+00	0.00E+00	-9.71E+00	-5.11E-01	0.00E+00
Total use of non-re. PER	MJ	9.34E+02	2.21E+02	1.15E+03	5.63E+01	-9.13E+00	0.00E+00	2.33E+01	-4.52E+00	-5.68E-02	-7.67E+02
Secondary materials	kg	1.36E-01	4.88E-03	1.40E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-01
Renew. secondary fuels	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E+02
Non-ren. secondary fuels	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E+01
Use of net fresh water	m ³	3.37E-01	5.74E-02	3.94E-01	1.18E-02	4.85E-03	0.00E+00	4.00E-03	1.33E-02	5.09E-04	-1.99E-01

PER = Primary energy resources

END OF LIFE – WASTE

Impact category	Unit	A1-A2	A3	A1-A3	A4	A5	C1	C2	C3	C4	D
Hazardous waste	kg	3.38E+00	1.11E+00	4.49E+00	6.69E-02	1.09E-01	0.00E+00	3.00E-02	3.44E-01	7.82E-04	-3.94E-01
Non-hazardous waste	kg	9.10E+01	1.83E+01	1.09E+02	6.30E+00	2.91E+00	0.00E+00	1.73E+00	3.55E+01	1.82E+00	-4.18E+00
Radioactive waste	kg	2.59E-03	8.17E-04	3.40E-03	3.78E-04	3.00E-06	0.00E+00	1.54E-04	1.26E-05	2.73E-06	-6.59E-05

END OF LIFE – OUTPUT FLOWS

Impact category	Unit	A1-A2	A3	A1-A3	A4	A5	C1	C2	C3	C4	D
Components for re-use	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for recycling	kg	0.00E+00	8.32E-02	8.32E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-01	0.00E+00	0.00E+00
Materials for energy rec	kg	0.00E+00	6.31E-01	6.31E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exported energy	MJ	0.00E+00	6.35E+00	6.35E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E+02	0.00E+00	0.00E+00

KEY INFORMATION TABLE (RTS) – KEY INFORMATION PER KG OF PRODUCT

Impact category	Unit	A1-A2	A3	A1-A3	A4	A5	C1	C2	C3	C4	D
GWP – total	kg CO ₂ e	1.64E-01	9.41E-01	1.11E+00	1.02E-01	1.06E-01	0.00E+00	4.25E-02	2.94E+00	5.50E-04	-1.13E+00
ADP-minerals & metals	kg Sbe	8.69E-05	1.18E-06	8.81E-05	1.73E-06	5.25E-08	0.00E+00	1.15E-06	2.42E-07	5.50E-09	-7.37E-07
ADP-fossil	MJ	2.57E+01	6.09E+00	3.18E+01	1.55E+00	2.50E-02	0.00E+00	6.40E-01	1.43E-01	1.25E-02	-2.14E+01
Water use	m ³ e depr.	1.53E+00	7.10E-02	1.60E+00	6.61E-03	3.17E-03	0.00E+00	2.45E-03	-6.88E-03	5.50E-04	-5.96E-02
Secondary materials	kg	3.73E-03	1.34E-04	3.86E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-02
Biog. C in product	kg C	N/A	4.08E-01	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Biog. C in packaging	kg C	N/A	3.44E-02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

ENVIRONMENTAL IMPACTS – EN 15804+A1, CML / ISO 21930

Impact category	Unit	A1-A2	A3	A1-A3	A4	A5	C1	C2	C3	C4	D
Global Warming Pot.	kg CO ₂ e	5.73E+01	1.19E+01	6.92E+01	3.66E+00	1.58E+00	0.00E+00	1.54E+00	2.04E+00	1.82E-02	-4.79E+01
Ozone depletion Pot.	kg CFC-11e	6.00E-06	8.25E-07	6.82E-06	6.69E-07	1.09E-08	0.00E+00	2.73E-07	4.37E-08	4.73E-09	-3.16E-06
Acidification	kg SO ₂ e	3.46E-01	5.64E-02	4.02E-01	1.10E-02	6.67E-04	0.00E+00	4.82E-03	4.61E-03	1.31E-03	-7.34E-02
Eutrophication	kg PO ₄ ³ e	1.10E-01	1.61E-02	1.26E-01	2.48E-03	8.79E-04	0.00E+00	1.09E-03	5.15E-03	2.73E-05	-9.86E-03
POCP (“smog”)	kg C ₂ H ₄ e	2.42E-02	3.32E-03	2.75E-02	4.73E-04	1.85E-05	0.00E+00	2.09E-04	9.74E-05	4.91E-06	-6.43E-03
ADP-elements	kg Sbe	3.16E-03	4.28E-05	3.20E-03	6.30E-05	1.91E-06	0.00E+00	4.18E-05	8.80E-06	2.00E-07	-2.68E-05
ADP-fossil	MJ	9.34E+02	2.21E+02	1.15E+03	5.63E+01	9.09E-01	0.00E+00	2.33E+01	5.19E+00	4.54E-01	-7.77E+02

MOULDED MASSIVE INTERNAL DOORS WITH GLASS

CORE ENVIRONMENTAL IMPACT INDICATORS – EN 15804+A2, PEF

Impact category	Unit	A1-A2	A3	A1-A3	A4	A5	C1	C2	C3	C4	D
GWP – total	kg CO _{2e}	1.85E+01	4.93E+01	6.79E+01	4.47E+00	3.85E+00	0.00E+00	1.89E+00	1.14E+02	7.32E-02	-4.61E+01
GWP – fossil	kg CO _{2e}	7.48E+01	1.20E+01	8.68E+01	4.47E+00	1.58E+00	0.00E+00	1.89E+00	9.10E+00	7.32E-02	-5.77E+01
GWP – biogenic	kg CO _{2e}	-5.67E+01	2.34E+01	-3.33E+01	2.47E-03	2.27E+00	0.00E+00	7.46E-04	9.30E+01	2.76E-04	3.82E-03
GWP – LULUC	kg CO _{2e}	4.49E-01	1.39E+01	1.44E+01	1.38E-03	3.33E-05	0.00E+00	7.13E-04	1.16E+01	3.12E-05	1.16E+01
Ozone depletion pot.	kg CFC-11e	1.01E-05	7.72E-07	1.08E-05	9.99E-07	1.09E-08	0.00E+00	4.23E-07	8.09E-08	2.35E-08	-4.67E-06
Acidification potential	mol H ⁺ e	5.70E-01	6.77E-02	6.38E-01	1.90E-02	9.70E-04	0.00E+00	8.02E-03	9.14E-03	6.06E-04	-1.01E-01
EP-freshwater	kg Pe	4.47E-03	4.43E-04	4.91E-03	4.23E-05	1.91E-06	0.00E+00	1.89E-05	1.33E-05	1.04E-06	-1.17E-04
EP-marine	kg Ne	9.51E-02	1.10E-02	1.06E-01	5.71E-03	4.24E-04	0.00E+00	2.34E-03	4.14E-03	2.06E-04	-2.14E-02
EP-terrestrial	mol Ne	1.32E+00	1.25E-01	1.45E+00	6.18E-02	4.24E-03	0.00E+00	2.56E-02	4.30E-02	2.32E-03	-2.32E-01
POCP (“smog”)	kg NMVOCe	3.68E-01	3.49E-02	4.03E-01	2.00E-02	1.06E-03	0.00E+00	7.91E-03	1.05E-02	6.67E-04	-8.09E-02
ADP-minerals & metals	kg Sbe	3.13E-03	3.95E-05	3.17E-03	7.61E-05	1.91E-06	0.00E+00	5.12E-05	1.36E-05	9.33E-07	-3.25E-05
ADP-fossil resources	MJ	1.25E+03	2.11E+02	1.46E+03	6.80E+01	9.09E-01	0.00E+00	2.85E+01	7.66E+00	1.66E+00	-8.79E+02
Water use	m ³ e depr.	6.30E+01	1.94E+00	6.50E+01	2.90E-01	1.15E-01	0.00E+00	1.09E-01	1.94E-01	6.59E-02	-2.47E+00

GWP = Global Warming Potential; EP = Eutrophication potential; POCP = Photochemical ozone formation; ADP = Abiotic depletion potential.

EN 15804+A2 disclaimer for Abiotic depletion and Water use and optional indicators except Particulate matter and Ionizing radiation, human health. The results of these environmental impact indicators shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator.

USE OF NATURAL RESOURCES

Impact category	Unit	A1-A2	A3	A1-A3	A4	A5	C1	C2	C3	C4	D
Renew. PER as energy	MJ	7.95E+02	1.38E+01	8.09E+02	7.14E-01	2.97E-02	0.00E+00	3.23E-01	2.25E-01	2.15E-02	7.06E+02
Renew. PER as material	MJ	9.39E+02	-1.46E+02	7.93E+02	0.00E+00	-2.35E+01	0.00E+00	0.00E+00	-7.07E+02	-3.72E+01	0.00E+00
Total use of renew. PER	MJ	1.73E+03	-1.32E+02	1.60E+03	7.14E-01	-2.35E+01	0.00E+00	3.23E-01	-7.07E+02	-3.72E+01	7.06E+02
Non-re. PER as energy	MJ	1.15E+03	2.01E+02	1.35E+03	6.80E+01	9.09E-01	0.00E+00	2.85E+01	7.66E+00	1.66E+00	-7.85E+02
Non-re. PER as material	MJ	9.86E+01	1.00E+01	1.09E+02	0.00E+00	-1.00E+01	0.00E+00	0.00E+00	-9.37E+01	-4.93E+00	0.00E+00
Total use of non-re. PER	MJ	1.25E+03	2.11E+02	1.46E+03	6.80E+01	-9.13E+00	0.00E+00	2.85E+01	-8.60E+01	-3.27E+00	-7.85E+02
Secondary materials	kg	1.62E-01	3.41E-03	1.65E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E+00
Renew. secondary fuels	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E+02
Non-ren. secondary fuels	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.81E+01
Use of net fresh water	m ³	5.94E+01	5.73E-02	5.94E+01	1.43E-02	4.85E-03	0.00E+00	4.90E-03	2.90E-02	1.62E-03	-2.27E-01

PER = Primary energy resources

END OF LIFE – WASTE

Impact category	Unit	A1-A2	A3	A1-A3	A4	A5	C1	C2	C3	C4	D
Hazardous waste	kg	3.72E+00	1.13E+00	4.85E+00	8.09E-02	1.09E-01	0.00E+00	3.67E-02	5.94E-01	2.26E-03	-4.30E-01
Non-hazardous waste	kg	1.05E+02	2.19E+01	1.27E+02	7.61E+00	2.91E+00	0.00E+00	2.12E+00	4.16E+01	7.98E+00	-4.79E+00
Radioactive waste	kg	3.28E-03	7.92E-04	4.07E-03	4.57E-04	3.00E-06	0.00E+00	1.89E-04	2.11E-05	1.08E-05	-8.31E-05

END OF LIFE – OUTPUT FLOWS

Impact category	Unit	A1-A2	A3	A1-A3	A4	A5	C1	C2	C3	C4	D
Components for re-use	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for recycling	kg	0.00E+00	8.32E-02	8.32E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E+00	0.00E+00	0.00E+00
Materials for energy rec	kg	0.00E+00	4.83E+00	4.83E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exported energy	MJ	0.00E+00	4.92E+01	4.92E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E+02	0.00E+00	0.00E+00

KEY INFORMATION TABLE (RTS) – KEY INFORMATION PER KG OF PRODUCT

Impact category	Unit	A1-A2	A3	A1-A3	A4	A5	C1	C2	C3	C4	D
GWP – total	kg CO ₂ e	4.16E-01	1.11E+00	1.52E+00	1.00E-01	8.64E-02	0.00E+00	4.25E-02	2.56E+00	1.64E-03	-1.03E+00
ADP-minerals & metals	kg Sbe	7.02E-05	8.88E-07	7.11E-05	1.71E-06	4.29E-08	0.00E+00	1.15E-06	3.06E-07	2.10E-08	-7.30E-07
ADP-fossil	MJ	2.80E+01	4.73E+00	3.27E+01	1.53E+00	2.04E-02	0.00E+00	6.40E-01	1.72E-01	3.72E-02	-1.97E+01
Water use	m ³ e depr.	1.42E+00	4.34E-02	1.46E+00	6.51E-03	2.59E-03	0.00E+00	2.45E-03	4.36E-03	1.48E-03	-5.56E-02
Secondary materials	kg	3.63E-03	7.65E-05	3.70E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.09E-02
Biog. C in product	kg C	N/A	3.20E-01	3.20E-01	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Biog. C in packaging	kg C	N/A	2.81E-02	2.81E-02	N/A	N/A	N/A	N/A	N/A	N/A	N/A

ENVIRONMENTAL IMPACTS – EN 15804+A1, CML / ISO 21930

Impact category	Unit	A1-A2	A3	A1-A3	A4	A5	C1	C2	C3	C4	D
Global Warming Pot.	kg CO ₂ e	7.36E+01	1.17E+01	8.52E+01	4.42E+00	1.58E+00	0.00E+00	1.89E+00	9.09E+00	7.03E-02	-5.41E+01
Ozone depletion Pot.	kg CFC-11e	8.55E-06	7.84E-07	9.34E-06	8.09E-07	1.09E-08	0.00E+00	3.34E-07	7.51E-08	1.85E-08	-3.58E-06
Acidification	kg SO ₂ e	3.91E-01	5.54E-02	4.46E-01	1.33E-02	6.67E-04	0.00E+00	5.90E-03	6.70E-03	1.91E-03	-8.29E-02
Eutrophication	kg PO ₄ ³ e	1.25E-01	1.62E-02	1.41E-01	3.00E-03	8.79E-04	0.00E+00	1.34E-03	7.04E-03	7.88E-05	-1.11E-02
POCP (“smog”)	kg C ₂ H ₄ e	2.73E-02	3.01E-03	3.03E-02	5.71E-04	1.85E-05	0.00E+00	2.56E-04	1.45E-04	1.76E-05	-7.15E-03
ADP-elements	kg Sbe	3.13E-03	3.95E-05	3.17E-03	7.61E-05	1.91E-06	0.00E+00	5.12E-05	1.36E-05	9.33E-07	-3.25E-05
ADP-fossil	MJ	1.25E+03	2.11E+02	1.46E+03	6.80E+01	9.09E-01	0.00E+00	2.85E+01	7.66E+00	1.66E+00	-8.79E+02



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