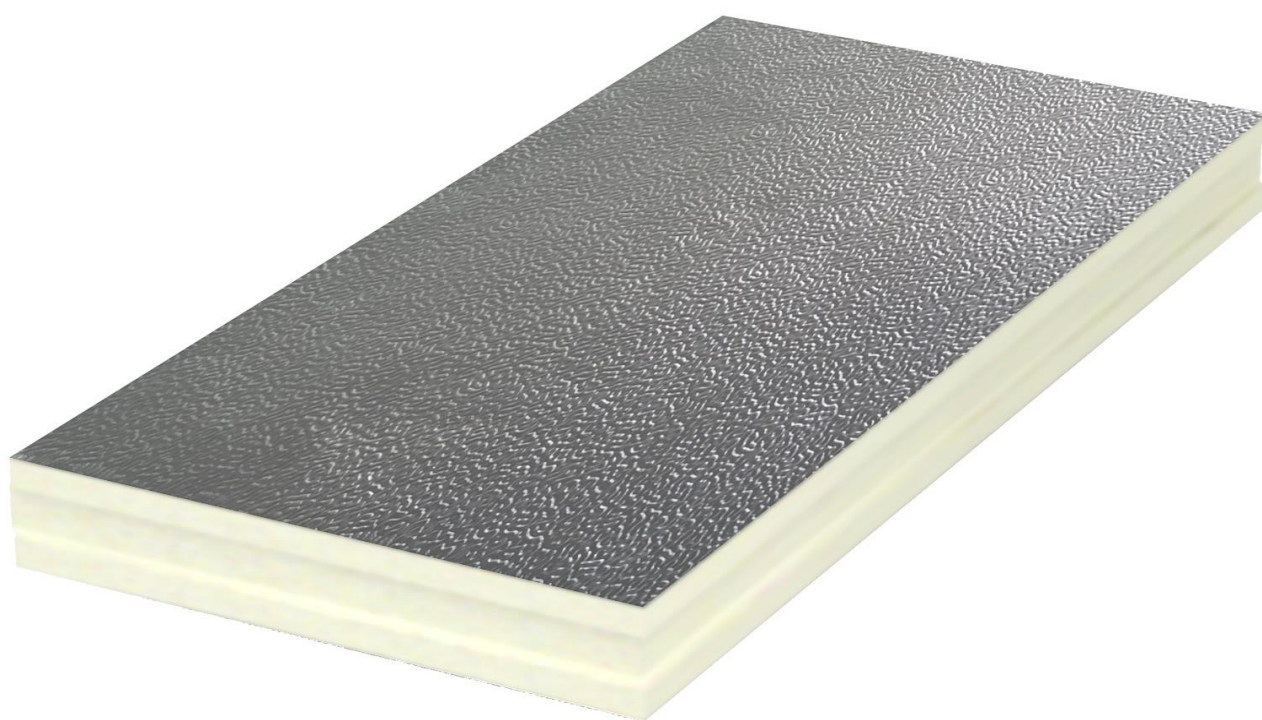


**Environmental
Product
Declaration**

According to ISO14025+EN15804 A2 (+indicators A1)

This declaration is for:
**PIR INSULATION BOARD α -therm WITH PURE ALUMINIUM
FACER**

Provided by:
Idelco



MRPI® registration:
1.1.00978.2025

Program operator:
Stichting MRPI®
Publisher:
Stichting MRPI®
www.mrpi.nl

Date of first issue:
4-9-2025
Date of this issue:
4-9-2025
Expiry date:
4-9-2030

COMPANY INFORMATION

Idelco
Hooiemeersstraat 1
8710
Wielsbeke
Belgium

<https://idelco.eu/en/>

MRPI® REGISTRATION

1.1.00978.2025

DATE OF THIS ISSUE

4-9-2025

EXPIRY DATE

4-9-2030

SCOPE OF DECLARATION

This MRPI®-EPD certificate is verified by Gert-Jan Vroege, Eco Intelligence. The LCA study has been done by Miora Frossard, CO2logic. The certificate is based on an LCA-dossier according to ISO14025+EN15804 A2 (+indicators A1). It is verified according to the 'MRPI®-EPD verification protocol November 2020.v4.0'. EPDs of construction products may not be comparable if they do not comply with EN15804+A2. Declaration of SVHC that are listed on the 'Candidate list of Substances of Very High Concern for authorisation' when content exceeds the limits for registration with ECHA.

PROGRAM OPERATOR

Stichting MRPI®
Kingsfordweg 151
1043 GR
Amsterdam

PRODUCT

PIR INSULATION BOARD α -therm WITH PURE ALUMINIUM FACER

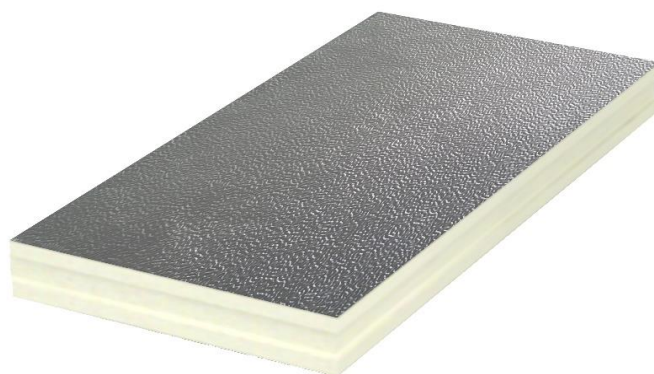
DECLARED UNIT / FUNCTIONAL UNIT

1 Productiveness (m2)

DESCRIPTION OF PRODUCT

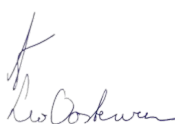
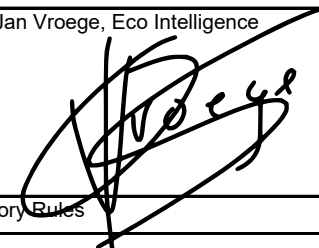
Insulation panel

VISUAL PRODUCT



MORE INFORMATION

<https://idelco.eu/en/products/>

Ing. L. L. Oosterveen MSc. MBA Managing Director MRPI 	DEMONSTRATION OF VERIFICATION
	CEN standard EN15804 serves as the core PCR [1]
	Independent verification of the declaration and data according to ISO14025+EN15804 A2 (+indicators A1) Internal: External: X
	Third party verifier: Gert-Jan Vroege, Eco Intelligence  [1] PCR = Product Category Rules

DETAILED PRODUCT DESCRIPTION

The product is a thermal insulation panels produced by Idelco, composed of PU foam and gastight aluminium, providing an R-value of 4.5 m².K/W. The functional unit is 1 m² of insulation panel, with a thickness of 100 mm, which corresponds to 3.56 kg.

The Reference service life is 50 years.

The insulation panel is produced in Belgium.

The product is distributed in Belgium and in the Netherlands.

Component (> 1%)	(%)
PU foam	84%
Gas tight aluminium	16%

SCOPE AND TYPE

The geographical coverage encompasses the consumer base of the products across these distinct markets: Netherlands and Belgium. This information is derived from the market distribution data provided by Idelco in early 2024, covering the year 2023. The production is consistent across all markets, the final distribution, use and end-of-life are profiled for each country and the average weight based on market share.

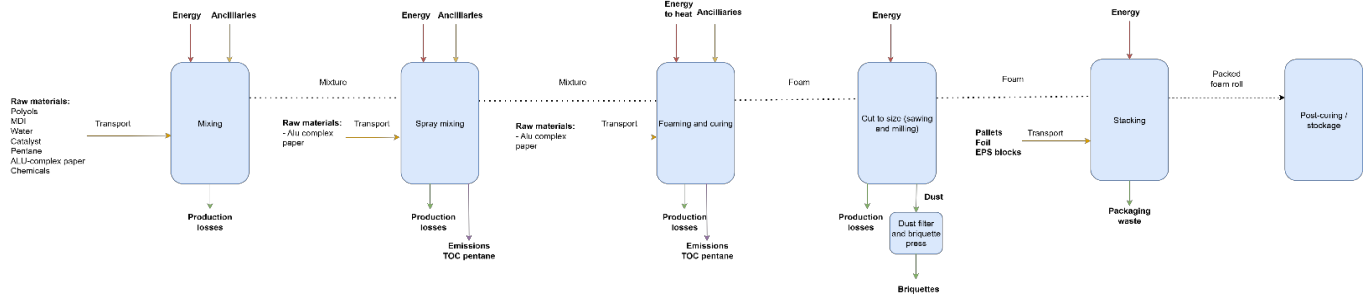
This is a specific EPD, cradle-to-grave, using Simapro 10.2.0.0 and ecoinvent 3.9 (for A2 indicators) and ecoinvent 3.6 (for A1 indicators).

PRODUCT STAGE			CONSTRUCTION PROCESS STAGE		USE STAGE							END OF LIFE STAGE				BENEFITS AND LOADS BEYOND THE SYSTEM BOUNDARIES
Raw material supply	Transport	Manufacturing	Transport gate to site	Assembly	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction demolition	Transport	Waste processing	Disposal	Reuse - Recovery - Recycling potential
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x

X = Modules Assessed

ND = Not Declared

Continuous process : insulation panels production



REPRESENTATIVENESS

The product under study is produced in only one production site, in Wielsbeke, Belgium.

ENVIRONMENTAL IMPACT per functional unit or declared unit (indicators A1)

Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
ADPE	kg Sb eq.	4,17E-05	1,32E-06	1,23E-05	5,52E-05	8,07E-07	1,92E-06	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	8,20E-07	0,00E+00	3,92E-06	1,03E-06
ADPF	MJ	1,29E+02	6,96E-04	1,10E-02	1,29E+02	3,49E-04	3,89E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	3,55E-04	0,00E+00	2,38E-03	3,52E-02
GWP	kg CO2 eq.	1,34E+01	9,80E-02	1,51E+00	1,51E+01	4,69E-02	8,21E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	4,76E-02	0,00E+00	8,11E+00	3,84E+00
ODP	kg CFC11 eq.	4,10E-05	1,64E-08	1,62E-06	4,26E-05	8,87E-09	1,28E-06	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	9,01E-09	0,00E+00	3,91E-08	4,45E-07
POCP	kg ethene eq.	8,33E-03	7,19E-05	3,67E-03	1,21E-02	2,94E-05	3,70E-04	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,99E-05	0,00E+00	1,13E-04	5,42E-04
AP	kg SO2 eq.	4,68E-02	6,77E-04	4,92E-03	5,24E-02	1,54E-04	1,76E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,56E-04	0,00E+00	4,92E-03	2,47E-03
EP	kg (PO4) 3 eq.	1,69E-02	1,50E-04	2,08E-03	1,92E-02	3,84E-05	7,71E-04	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	3,89E-05	0,00E+00	3,44E-03	4,80E-04

Toxicity indicators and ECI (Dutch market)

HTP	kg DCB eq.	1,52E+01	6,62E-02	1,31E+00	1,65E+01	2,75E-02	6,37E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,79E-02	0,00E+00	2,90E+00	2,58E-01
FAETP	kg DCB eq.	7,47E+00	2,36E-02	9,02E-01	8,40E+00	6,38E-03	5,22E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	6,48E-03	0,00E+00	5,56E+00	7,42E-02
MAETP	kg DCB eq.	1,60E+04	3,64E+01	1,43E+03	1,75E+04	1,04E+01	7,91E+02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,06E+01	0,00E+00	5,52E+03	1,09E+02
TETP	kg DCB eq.	4,84E-02	1,78E-04	3,30E-03	5,19E-02	7,30E-05	1,69E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	7,42E-05	0,00E+00	2,59E-03	6,38E-04
ECI	euro	2,49E+00	2,24E-02	2,56E-01	2,77E+00	1,07E-02	1,51E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,09E-02	0,00E+00	1,02E+00	5,25E-01
ADPF	kg Sb eq.	6,23E-02	3,35E-07	5,30E-06	6,23E-02	1,68E-07	1,87E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,71E-07	0,00E+00	1,15E-06	1,69E-05

ADPE	=	Abiotic Depletion Potential for non-fossil resources
ADPF	=	Abiotic Depletion Potential for fossil resources
GWP	=	Global Warming Potential
ODP	=	Depletion potential of the stratospheric ozone layer
POCP	=	Formation potential of tropospheric ozone photochemical oxidants
AP	=	Acidification Potential of land and water
EP	=	Eutrophication Potential
HTP	=	Human Toxicity Potential
FAETP	=	Fresh water aquatic ecotoxicity potential
MAETP	=	Marine aquatic ecotoxicity potential
TETP	=	Terrestrial ecotoxicity potential
ECI	=	Environmental Cost Indicator
ADPF	=	Abiotic Depletion Potential for fossil resources

ENVIRONMENTAL IMPACT per functional unit or declared unit (core indicators A2)

Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP-total kg CO2 eq.	1,32E+01	1,08E-01	1,33E+00	1,47E+01	5,41E-02	1,24E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	5,49E-02	0,00E+00	8,18E+00	4,11E+00
GWP-fossil kg CO2 eq.	1,31E+01	1,08E-01	1,33E+00	1,45E+01	5,41E-02	1,24E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	5,49E-02	0,00E+00	8,18E+00	4,11E+00
GWP-biogenic kg CO2 eq.	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	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
GWP-luluc kg CO2 eq.	1,03E-01	8,09E-05	4,39E-03	1,07E-01	2,54E-05	2,76E-06	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,58E-05	0,00E+00	9,66E-05	2,85E-04
ODP kg CFC11 eq.	3,04E-05	2,14E-09	1,11E-06	3,16E-05	1,18E-09	2,06E-10	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,20E-09	0,00E+00	1,33E-08	2,14E-07
AP mol H+ eq.	5,51E-02	8,16E-04	5,00E-03	6,09E-02	1,82E-04	4,06E-05	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,85E-04	0,00E+00	7,04E-03	2,64E-03
EP-fresh water kg PO4 eq.	1,07E-02	4,57E-05	8,74E-04	1,16E-02	1,18E-05	1,96E-06	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,20E-05	0,00E+00	1,32E-04	1,72E-04
EP-marine kg N eq.	1,21E-02	2,53E-04	1,25E-03	1,36E-02	6,30E-05	4,64E-05	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	6,40E-05	0,00E+00	5,46E-03	1,02E-03
EP-terrestrial mol N eq.	1,11E-01	2,73E-03	9,37E-03	1,23E-01	6,66E-04	1,81E-04	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	6,76E-04	0,00E+00	3,78E-02	1,10E-02
POCP kg NMVOC eq.	3,70E-02	8,90E-04	8,27E-03	4,61E-02	2,83E-04	5,42E-05	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,88E-04	0,00E+00	9,26E-03	5,99E-03
ADP-minerals & metals kg Sb eq.	1,93E-05	2,74E-07	4,86E-06	2,45E-05	1,46E-07	1,60E-08	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,48E-07	0,00E+00	7,48E-07	9,83E-07
ADP-fossil MJ, net calorific value	2,86E+02	1,55E+00	2,73E+01	3,15E+02	7,91E-01	7,91E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	8,03E-01	0,00E+00	4,52E+00	6,26E+01
WDP m3 world eq. Deprived	4,71E+00	8,58E-03	5,54E-01	5,27E+00	3,78E-03	5,78E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	3,84E-03	0,00E+00	4,86E-01	3,08E-01

GWP-total	=	Global Warming Potential total
GWP-fossil	=	Global Warming Potential fossil fuels
GWP-biogenic	=	Global Warming Potential biogenictotal
GWP-luluc	=	Global Warming Potential land use and land use change
ODP	=	Depletion potential of the stratospheric ozone layer
AP	=	Acidification Potential, Accumulated Exceedence
EP-freshwater	=	Eutrophication Potential, fraction of nutrients reaching freshwater end compartment
EP-marine	=	Eutrophication Potential, fraction of nutrients reaching marine end compartment
EP-terrestrial	=	Eutrophication Potential, Accumulated Exceedence
POCP	=	Formation potential of tropospheric ozone photochemical oxidants
ADP-minerals & metals	=	Abiotic Depletion Potential for non-fossil resources [1]
ADP-fossil	=	Abiotic Depletion for fossil resources potential [1]
WDP	=	Water (user) deprivation potential, deprivation-weighted water consumption [1]

Disclaimer [1]:

- The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experience with the indicator.

ENVIRONMENTAL IMPACT per functional unit or declared unit (additional indicators A2)

Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
PM	Disease incidence	9,15E-07	9,52E-09	5,60E-08	9,80E-07	5,47E-09	5,31E-10	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	5,55E-09	0,00E+00	2,51E-08	1,29E-08
IRP	kBq U235 eq.	1,37E+00	5,99E-03	4,77E-01	1,85E+00	9,98E-04	1,17E-04	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,01E-03	0,00E+00	4,39E-03	1,60E-02
ETP-fw	CTUe	3,34E+02	7,25E-01	2,70E+01	3,62E+02	3,80E-01	2,66E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	3,86E-01	0,00E+00	2,03E+01	2,11E+00
HTP-c	CTUh	1,97E-08	6,47E-11	7,08E-09	2,69E-08	2,34E-11	1,20E-11	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,38E-11	0,00E+00	7,79E-10	4,74E-10
HTP-nc	CTUh	2,39E-07	1,01E-09	1,72E-08	2,57E-07	5,68E-10	4,07E-10	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	5,77E-10	0,00E+00	2,51E-08	5,57E-09
SQP	-	2,80E+01	1,27E+00	3,42E+00	3,27E+01	8,03E-01	6,86E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	8,16E-01	0,00E+00	8,60E-01	6,65E-01

- PM = Potential incidence of disease due to PM emissions
- IRP = Potential Human exposure efficiency relative to U235 [1]
- ETP-fw = Potential Comparative Toxic Unit for ecosystems [2]
- HTP-c = Potential Comparative Toxic Unit for humans, cancer [2]
- HTP-nc = Potential Comparative Toxic Unit for humans, non-cancer [2]
- SQP = Potential soil quality index [2]

Disclaimer [1]:

- 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.

Disclaimer [2]:

- The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experience with the indicator.

OUTPUT FLOWS AND WASTE CATEGORIES per functional unit or declared unit (A1 en A2)

	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
HWD	kg	2,27E-02	8,65E-06	1,30E-04	2,28E-02	4,91E-06	4,83E-07	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	4,99E-06	0,00E+00	2,18E-05	2,68E-04
NHWD	kg	1,75E+00	9,27E-02	1,20E-01	1,97E+00	6,93E-02	1,94E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	7,04E-02	0,00E+00	1,64E-01	7,05E-02
RWD	kg	6,76E-04	1,51E-06	1,18E-04	7,95E-04	2,41E-07	2,88E-08	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,45E-07	0,00E+00	1,10E-06	4,00E-06
CRU	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	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
MFR	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	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
MER	kg	0,00E+00	0,00E+00	1,20E-01	1,20E-01	0,00E+00	1,05E-01	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	3,38E+00	0,00E+00
EEE	MJ	0,00E+00	0,00E+00	3,74E+00	3,74E+00	0,00E+00	2,80E+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	0,00E+00	8,95E+01	0,00E+00
ETE	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	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

HWD = Hazardous Waste Disposed
 NHWD = Non Hazardous Waste Disposed
 RWD = Radioactive Waste Disposed
 CRU = Components for reuse
 MFR = Materials for recycling
 MER = Materials for energy recovery
 EEE = Exported Electrical Energy
 ETE = Exported Thermal Energy

RESOURCE USE per functional unit or declared unit (A1 and A2)

Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
PERE MJ	3,28E+01	5,34E-02	2,41E+00	3,52E+01	1,16E-02	1,75E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	9,41E-03	0,00E+00	7,96E-02	2,30E-01
PERM 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	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
PERT MJ	3,28E+01	5,34E-02	2,41E+00	3,52E+01	1,16E-02	1,75E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	9,41E-03	0,00E+00	7,96E-02	2,30E-01
PENRE MJ	2,47E+02	1,55E+00	2,99E+01	2,79E+02	7,91E-01	7,91E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	7,94E-01	0,00E+00	4,89E+00	6,94E+01
PENRM MJ	7,90E+01	0,00E+00	-2,57E+00	7,65E+01	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	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PENRT MJ	3,26E+02	1,55E+00	2,73E+01	3,55E+02	7,91E-01	7,91E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	7,94E-01	0,00E+00	4,89E+00	6,94E+01
SM 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	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
RSF MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	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	0,00E+00
NSRF 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	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
FW m3	2,75E-01	3,51E-04	2,04E-02	2,96E-01	1,24E-04	1,82E-04	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	8,51E-05	0,00E+00	1,54E-02	4,67E-03

PERE	=	Use of renewable primary energy excluding renewable primary energy 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 resources excluding non-renewable 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 materials
RSF	=	Use of renewable secondary fuels
NSRF	=	Use of non-renewable secondary fuels
FW	=	Use of net fresh water

BIOGENIC CARBON CONTENT per functional unit or declared unit (A1 and A2)

Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
BBCpr kg C	1,00E-01	0,00E+00	0,00E+00	1,00E-01	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	0,00E+00	0,00E+00	0,00E+00	0,00E+00
BCCpa kg C	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	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00

BBCpr	=	Biogenic carbon content in product
BCCpa	=	Biogenic carbon content in packaging

CALCULATION RULES

The data was collected for year 2023.

The EN 15804+A2 calculation rules have been applied. The cut-off recycled content methodology is used for cross life cycle allocation of recycled material burdens. The polluter pays principle is applied to co-products from the end of life disposal.

Data gaps were filled with default values from the NMD standard.

The cut-off criteria follows the ISO 14044:2006. The processes excluded are listed in table below.

The A2 indicators are calculated using ecoinvent 3.9.1 database whereas the A1 indicators are calculated using ecoinvent 3.6 database.

Processes excluded	
Production and disposal of infrastructures.	
Infrastructures include machines, transport vehicles, roads, etc., as well as their maintenance.	
Transport of employees to and from their normal place of work and business travel	
Environmental impacts associated with support functions	

SCENARIOS AND ADDITIONAL TECHNICAL INFORMATION

Specific data has been used in modules A1 to A4.

Scenarios from the NMD standard were used for module A5 and modules C1-C4.

A5	
A 3% loss rate was assumed at construction.	

C1-C4	
95% of the product goes to incineration and 5% to landfill.	

DECLARATION OF SVHC

The product does not contain SVHC.

REFERENCES

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