



**Environmental
Product
Declaration**

According to EN15804+A2 (+indicators A1)



This declaration is for:

**Standard shutter (standaard rolluik) (Solar
motor- remote control)**

Provided by:

Degalux zonwering en rolluiken



program operator

Stichting MRPI®

publisher

Stichting MRPI®

www.mrpi.nl

MRPI® registration

1.1.00508.2024

date of first issue

22-03-2024

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expiry date

22-03-2029



COMPANY INFORMATION



Degalux zonwering en rolluiken
Koopmansgoed 7
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PRODUCT

Standard shutter (standaard rolluik) (Solar motor- remote control)

DECLARED UNIT/FUNCTIONAL UNIT

Assembly if 380cm wide and 195cm high, calculated back to 1m²

DESCRIPTION OF PRODUCT

Degalux shutters feature a compact box for aesthetic appeal and easy installation in tight spaces. Noise reduction is achieved with brush-fitted guiding rails, and frost resistance is enhanced. These shutters offer compatibility with various electric motors controlled remotely and operating independently on solar energy.

MRPI® REGISTRATION

1.1.00508.2024

DATE OF ISSUE

22-03-2024

EXPIRY DATE

22-03-2029

VISUAL PRODUCT



SCOPE OF DECLARATION

This MRPI®-EPD certificate is verified by Tim Mol, EcoReview NL BV. De LCA study has been done by Frédérique de Barys, Accenture. The certificate is based on an LCA-dossier according to EN15804+A2 (+indicators A1). It is verified according to the 'MRPI®-EPD verification protocol November 2020.v4.0'. EPD's 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.

MORE INFORMATION

<https://degalux.com/rolluiken/standaard>

PROGRAM OPERATOR

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DEMONSTRATION OF VERIFICATION

CEN standard EN15804 serves as the core PCR(a)

Independent verification of the declaration an data according to EN15804+A2 (+indicators A1)

internal: external: x

Third party verifier: Tim Mol, EcoReview NL BV.

[a] PCR = Product Category Rules

DETAILED PRODUCT DESCRIPTION

The roller shutters are mainly assembled using aluminium profiles for the shutter box and slats made from aluminium and polypropylene. The aluminium profiles and slats are powdercoated which is available in 30 different colours.

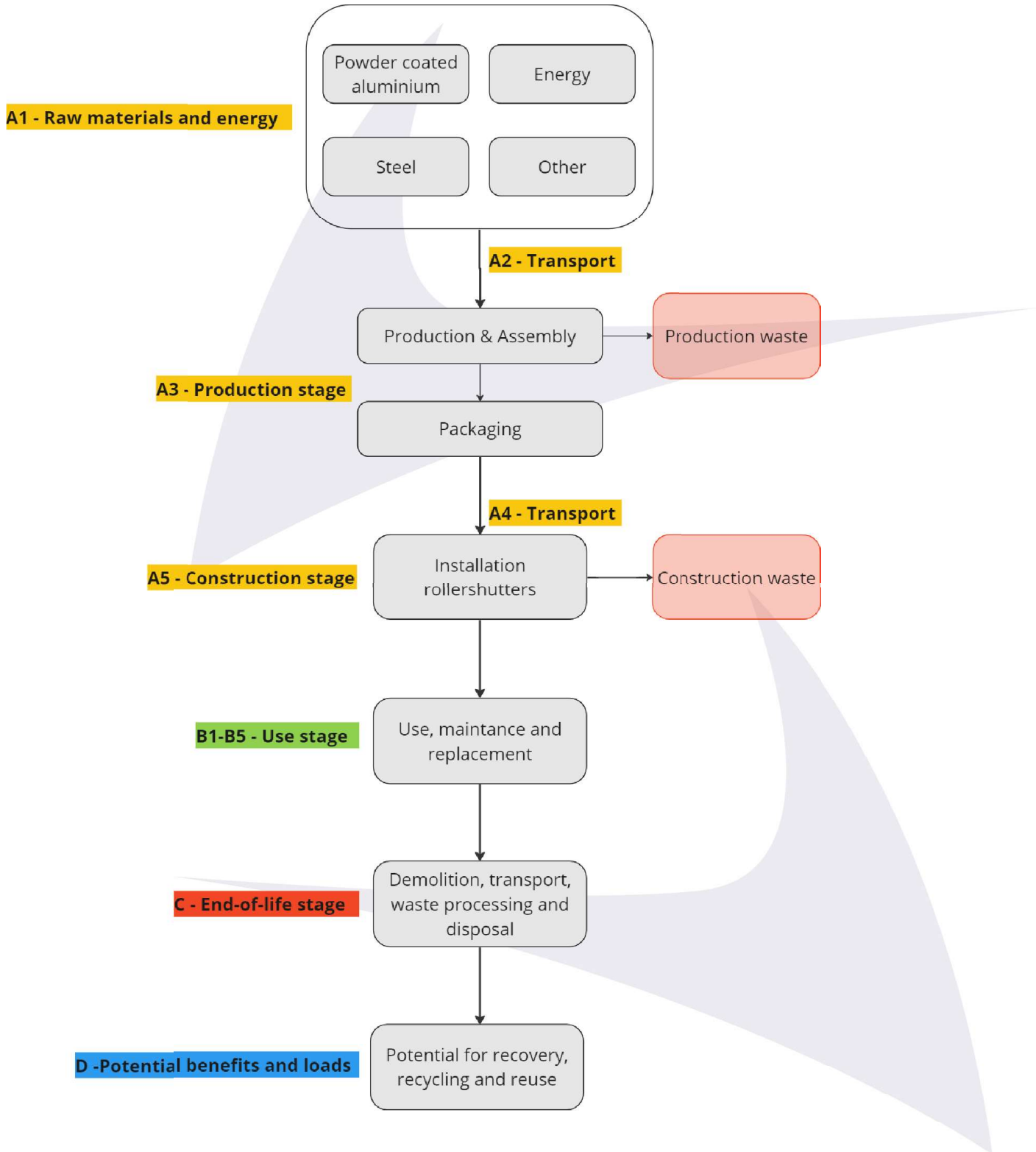
The roller shutterbox is adaptable to all different types and size of windows. The roller shutters are available with a maximum height of 360cm and a maximum width of 380cm. The reference life time is 25 years. The production of the shutters takes place in Barneveld where the powder coated aluminium profiles are cutted in the correct shapes and assembled together with the slats and reinforcing parts. Finally the shutter is equipped with an electric motor operating on solar energy. The final product is packed and ready for the transport.

Component > 1% of total mass	(%)
Box	36%
Slats	3%
Reinforcing parts	35%
Remote control	1%
Packaging	2%
Motor	23%

SCOPE AND TYPE

The roller shutters are assembled in Barneveld, The Netherlands and sold on the European market. This EPD is cradle-to-grave and includes all modules except modules B6 and B7. The LCA calculations are made using the LCA SimaPro 9. Data used in the modules are sourced from Ecoinvent 3.6.

PRODUCT STAGE		CONSTRUCTION PROCESS STAGE			USER STAGE							END OF LIFE STAGE				BENEFITS AND LOADS BEYOND THE SYSTEM BOUNDARIES
Rawmaterial 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	ND	ND	X	X	X	X	X
X= Modules Assessed ND= Not Declared																



REPRESENTATIVENESS

The EPD is representative for all sizes and formats of roller shutters, equipped with a motor controlled remotely and equipped with solar panel and Li-Ion battery, produced by Degalux.

ENVIRONMENT IMPACT per functional unit or declared unit (core 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.	1,60 E-03	3,70 E-06	-2,90 E-06	1,60 E-03	2,20 E-06	-6,20 E-06	0,00 E+00	0,00 E+00	0,00 E+00	5,00 E-05	0,00 E+00	x	x	0,00 E+00	9,00 E-07	1,40 E-07	4,50 E-08	-4,50 E-05
ADPF	MJ	3,33 E+00	7,69 E-03	-6,03 E-03	3,33 E+00	4,57 E-03	-1,29 E-02	0,00 E+00	0,00 E+00	0,00 E+00	1,04 E-01	0,00 E+00	x	x	0,00 E+00	1,87 E-03	2,91 E-04	9,36 E-05	-9,36 E-02
GWP	kg CO2 eq.	5,50 E+01	1,40 E-01	-1,30 E+00	5,38 E+01	8,70 E-02	-1,90 E+00	0,00 E+00	0,00 E+00	0,00 E+00	4,30 E-01	0,00 E+00	x	x	0,00 E+00	3,50 E-02	3,80 E-01	9,90 E-03	-1,70 E+01
ODP	kg CFC11 eq.	3,10 E-06	2,50 E-08	-2,70 E-08	3,10 E-06	1,50 E-08	-7,00 E-08	0,00 E+00	0,00 E+00	0,00 E+00	4,30 E-08	0,00 E+00	x	x	0,00 E+00	6,30 E-09	1,10 E-09	5,80 E-10	-5,70 E-07
POCP	kg ethene eq.	3,00 E-02	8,50 E-05	-6,10 E-04	2,95 E-02	5,20 E-05	-8,40 E-04	0,00 E+00	0,00 E+00	0,00 E+00	5,50 E-04	0,00 E+00	x	x	0,00 E+00	2,10 E-05	4,30 E-06	4,20 E-06	-7,10 E-03
AP	kg SO2 eq.	2,80 E-01	6,20 E-04	-8,20 E-03	2,72 E-01	3,80 E-04	-1,20 E-02	0,00 E+00	0,00 E+00	0,00 E+00	8,30 E-03	0,00 E+00	x	x	0,00 E+00	1,60 E-04	6,50 E-05	3,10 E-05	-9,70 E-02
EP	kg (PO4) 3- eq.	2,70 E-02	1,20 E-04	-7,10 E-04	2,64 E-02	7,50 E-05	-1,20 E-03	0,00 E+00	0,00 E+00	0,00 E+00	5,30 E-04	0,00 E+00	x	x	0,00 E+00	3,10 E-05	2,20 E-05	5,80 E-06	-8,00 E-03

Toxicity indicators for Dutch market

HTP	kg DCB-Eq	6,10 E+01	6,50 E-02	-1,40 E+00	5,97 E+01	4,00 E-02	-1,90 E+00	0,00 E+00	0,00 E+00	0,00 E+00	3,90 E+00	0,00 E+00	x	x	0,00 E+00	1,60 E-02	1,80 E-02	3,60 E-03	-1,70 E+01
FAETP	kg DCB-Eq	1,10 E+00	1,70 E-03	-1,30 E-02	1,09 E+00	1,10 E-03	-3,80 E-02	0,00 E+00	0,00 E+00	0,00 E+00	2,80 E-02	0,00 E+00	x	x	0,00 E+00	4,30 E-04	1,60 E-03	1,40 E-04	-1,20 E-01
MAETP	kg DCB-Eq	3,00 E+03	6,20 E+00	-7,00 E+01	2,94 E+03	3,80 E+00	-9,50 E+01	0,00 E+00	0,00 E+00	0,00 E+00	1,30 E+02	0,00 E+00	x	x	0,00 E+00	1,60 E+00	3,30 E+00	2,60 E-01	-8,30 E+02
TETP	kg DCB-Eq	2,30 E-01	2,40 E-04	-3,70 E-03	2,27 E-01	1,50 E-04	-9,20 E-03	0,00 E+00	0,00 E+00	0,00 E+00	1,50 E-02	0,00 E+00	x	x	0,00 E+00	6,00 E-05	9,30 E-05	1,30 E-05	-3,60 E-02
ECI	euro	1,01 E+01	1,75 E-02	-2,41 E-01	9,83 E+00	1,08 E-02	-3,45 E-01	0,00 E+00	0,00 E+00	0,00 E+00	4,26 E-01	0,00 E+00	x	x	0,00 E+00	4,40 E-03	2,15 E-02	1,00 E-03	-2,96 E+00
ADPF	kg Sb eq.	3,60 E-01	1,00 E-03	-7,40 E-03	3,54 E-01	6,40 E-04	-1,20 E-02	0,00 E+00	0,00 E+00	0,00 E+00	3,20 E-03	0,00 E+00	x	x	0,00 E+00	2,60 E-04	5,10 E-05	4,50 E-05	-1,00 E-01

- 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 expressed in [kg Sb-eq.]

ENVIRONMENT 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.	5,60 E+01	1,40 E-01	-1,30 E+00	5,48 E+01	8,80 E-02	-1,80 E+00	0,00 E+00	0,00 E+00	0,00E +00	4,40 E-01	0,00 E+00			3,60 E-02	3,80 E-01	1,10 E-02	-1,70 E+01	-1,67 E+01
GWP-fossil	kg CO2 eq.	5,60 E+01	1,40 E-01	-1,30 E+00	5,48 E+01	8,80 E-02	-2,00 E+00	0,00 E+00	0,00 E+00	0,00E +00	4,40 E-01	0,00 E+00	x	x	3,60 E-02	3,80 E-01	1,00 E-02	-1,70 E+01	-1,67 E+01
GWP-biogenic	kg CO2 eq.	-2,30 E-01	6,60 E-05	4,80 E-02	-1,82 E-01	4,00 E-05	2,00 E-01	0,00 E+00	0,00 E+00	0,00E +00	-6,70 E-04	0,00 E+00	x	x	1,60 E-05	4,10 E-05	6,90 E-05	6,50 E-02	6,35 E-02
GWP-luluc	kg CO2 eq.	1,90 E-01	5,30 E-05	-6,10 E-03	1,84 E-01	3,20 E-05	-1,10 E-02	0,00 E+00	0,00 E+00	0,00E +00	8,50 E-04	0,00 E+00	x	x	1,30 E-05	2,60 E-06	5,20 E-06	-6,60 E-02	-6,40 E-02
ODP	kg CFC11 eq.	3,30 E-06	3,10 E-08	-3,10 E-08	3,30 E-06	1,90 E-08	-7,70 E-08	0,00 E+00	0,00 E+00	0,00E +00	4,40 E-08	0,00 E+00	x	x	7,90 E-09	1,30 E-09	7,00 E-10	-6,40 E-07	-6,18 E-07
AP	mol H+ eq.	3,40 E-01	8,20 E-04	-9,70 E-03	3,31 E-01	5,10 E-04	-1,40 E-02	0,00 E+00	0,00 E+00	0,00E +00	9,60 E-03	0,00 E+00	x	x	2,10 E-04	9,00 E-05	3,90 E-05	-1,10 E-01	-1,10 E-01
EP-freshwater	kg PO4 eq.	2,40 E-03	1,40 E-06	-5,50 E-05	2,35 E-03	8,80 E-07	-9,60 E-05	0,00 E+00	0,00 E+00	0,00E +00	7,60 E-05	0,00 E+00	x	x	3,60 E-07	1,20 E-07	1,90 E-07	-5,90 E-04	-5,63 E-04
EP-marine	kg N eq.	5,10 E-02	2,90 E-04	-1,40 E-03	4,99 E-02	1,80 E-04	-2,20 E-03	0,00 E+00	0,00 E+00	0,00E +00	6,90 E-04	0,00 E+00	x	x	7,30 E-05	3,90 E-05	1,30 E-05	-1,70 E-02	-1,65 E-02
EP-terrestrial	mol N eq.	5,70 E-01	3,20 E-03	-1,60 E-02	5,57 E-01	2,00 E-03	-2,40 E-02	0,00 E+00	0,00 E+00	0,00E +00	9,10 E-03	0,00 E+00	x	x	8,00 E-04	4,10 E-04	1,10 E-04	-1,90 E-01	-1,83 E-01
POCP	kg NMVOC eq.	1,80 E-01	9,00 E-04	-4,60 E-03	1,76 E-01	5,60 E-04	-6,60 E-03	0,00 E+00	0,00 E+00	0,00E +00	2,70 E-03	0,00 E+00	x	x	2,30 E-04	1,00 E-04	3,20 E-05	-5,60 E-02	-5,39 E-02
ADP-minerals & metals	kg Sb eq.	1,60 E-03	3,70 E-06	-2,90 E-06	1,60 E-03	2,20 E-06	-6,10 E-06	0,00 E+00	0,00 E+00	0,00E +00	5,00 E-05	0,00 E+00	x	x	9,00 E-07	1,40 E-07	4,50 E-08	-4,50 E-05	-3,73 E-05
ADP-fossil	MJ, net calorific value	6,20 E+02	2,20 E+00	-1,10 E+01	6,11 E+02	1,30 E+00	-1,90 E+01	0,00 E+00	0,00 E+00	0,00E +00	5,80 E+00	0,00 E+00	x	x	5,40 E-01	9,90 E-02	8,30 E-02	-1,60 E+02	-1,57 E+02
WDP	m3 world eq. Deprived	1,30 E+01	7,70 E-03	-1,60 E-01	1,28 E+01	4,70 E-03	-3,50 E-01	0,00 E+00	0,00 E+00	0,00E +00	2,10 E-01	0,00 E+00	x	x	1,90 E-03	1,30 E-02	2,20 E-03	-1,60 E+00	-1,51 E+00

- GWP-total = Global 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 = 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 [2]
- ADP-fossil = Abiotic Depletion for fossil resources potential [2]
- WDP = Water (user) deprivation potential, deprivation-weighted water consumption [2]

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 experienced with the indicator

ENVIRONMENT 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	3,40 E-06	1,30 E-08	-1,20 E-07	3,29 E-06	7,90 E-09	-1,60 E-07	0,00 E+00	0,00 E+00	0,00 E+00	4,00 E-08	0,00 E+00	x	x	0,00 E+00	3,20 E-09	7,70 E-10	5,40 E-10	-1,40 E-06
IRP	kBq U235 eq.	1,40 E+00	9,00 E-03	-2,10 E-02	1,39 E+00	5,50 E-03	-3,50 E-02	0,00 E+00	0,00 E+00	0,00 E+00	1,70 E-02	0,00 E+00	x	x	0,00 E+00	2,30 E-03	2,70 E-04	2,90 E-04	-2,40 E-01
ETP-fw	CTUe	1,60 E+03	1,90 E+00	-3,80 E+01	1,56 E+03	1,20 E+00	-4,60 E+01	0,00 E+00	0,00 E+00	0,00 E+00	8,10 E+01	0,00 E+00	x	x	0,00 E+00	4,80 E-01	1,40 E+00	8,30 E+01	-4,50 E+02
HTP-c	CTUh	1,00 E-07	6,20 E-11	-2,10 E-09	9,80 E-08	3,80 E-11	-2,80 E-09	0,00 E+00	0,00 E+00	0,00 E+00	3,30 E-09	0,00 E+00	x	x	0,00 E+00	1,60 E-11	2,80 E-11	5,20 E-12	-2,50 E-08
HTP-nc	CTUh	1,70 E-06	2,10 E-09	-3,70 E-08	1,67 E-06	1,30 E-09	-5,10 E-08	0,00 E+00	0,00 E+00	0,00 E+00	9,90 E-08	0,00 E+00	x	x	0,00 E+00	5,20 E-10	1,10 E-09	1,40 E-10	-4,40 E-07
SQP	----	1,60 E+02	1,80 E+00	-7,40 E+00	1,54 E+02	1,10 E+00	-1,20 E+01	0,00 E+00	0,00 E+00	0,00 E+00	2,20 E+00	0,00 E+00	x	x	0,00 E+00	4,70 E-01	7,20 E-02	1,10 E-01	-2,80 E+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 [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 experienced with the indicator.

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

	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
HWD	kg	8,00 E-03	0,00 E+00	0,00 E+00	8,00 E-03	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	x	x	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	1,00 E-03
NHWD	kg	9,75 E+00	1,34 E-01	-2,74 E-01	9,61 E+00	8,40 E-02	-3,45 E-01	0,00 E+00	0,00 E+00	0,00 E+00	1,09 E-01	0,00 E+00	x	x	0,00 E+00	3,40 E-02	9,00 E-03	1,65 E-01	-3,30 E+00
RWD	kg	1,00 E-03	0,00 E+00	0,00 E+00	1,00 E-03	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	x	x	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00
CRU	kg	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	x	x	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00
MFR	kg	3,93 E+00	0,00 E+00	0,00 E+00	3,93 E+00	0,00 E+00	5,00 E-03	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	x	x	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00
MER	kg	3,47 E-01	0,00 E+00	0,00 E+00	3,47 E-01	0,00 E+00	1,00 E-03	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	x	x	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00
EEE	MJ	9,00 E-02	0,00 E+00	0,00 E+00	9,00 E-02	0,00 E+00	5,50 E-02	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	x	x	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	5,75 E-01
ETE	MJ	1,56 E-01	0,00 E+00	0,00 E+00	1,56 E-01	0,00 E+00	9,50 E-02	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	x	x	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	9,90 E-01

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

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

	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
PERE	MJ	0,00 E+00	0,00 E+00	2,76 E+00	2,76 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	x	x	0,00 E+00	0 E+00	0 E+00	0 E+00	0 E+00
PERM	MJ	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	x	x	0,00 E+00	0 E+00	0 E+00	0 E+00	0 E+00
PERT	MJ	7,03 E+01	2,80 E-02	-1,64 E+00	6,87 E+01	1,70 E-02	-4,57 E+00	0,00 E+00	0,00 E+00	0,00 E+00	6,69 E-01	0,00 E+00	x	x	0,00 E+00	7 E-03	3 E-03	5 E-03	-2 E+01
PENRE	MJ	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	x	x	0,00 E+00	0 E+00	0E+00	0 E+00	0 E+00
PENRM	MJ	4,23 E+00	0,00 E+00	0,00 E+00	4,23 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	x	x	0,00 E+00	0 E+00	0 E+00	0 E+00	0 E+00
PENRT	MJ	6,67 E+02	2,28 E+00	-1,18 E+01	6,57 E+02	1,40 E+00	-2,07 E+01	0,00 E+00	0,00 E+00	0,00 E+00	6,21 E+00	0,00 E+00	x	x	0,00 E+00	6 E-01	1 E-01	9 E-02	-2 E+02
SM	kg	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	x	x	0,00 E+00	0 E+00	0 E+00	0 E+00	0 E+00
RSF	MJ	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	x	x	0,00 E+00	0 E+00	0 E+00	0 E+00	0 E+00
NRSF	MJ	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	x	x	0,00 E+00	0 E+00	0 E+00	0 E+00	0 E+00
FW	m3	4,91 E-01	0,00 E+00	-1,00 E-02	4,81 E-01	0,00 E+00	-1,80 E-02	0,00 E+00	0,00 E+00	0,00 E+00	6,00 E-03	0,00 E+00	x	x	0,00 E+00	0 E+00	1E-03	0 E+00	-1 E-01

PERE = Use of renewable energy excluding renewable primary energy resources

PERM = Use of renewable 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

NRSF = Use of non renewable secondary fuels

FW = Use of net fresh water

BIOGEN CARBON CONTENT per functional unit or declared unit (A1 / A2)

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

BCCpr = Biogenic carbon content in product

BCCpa = Biogenic carbon content in packaging



CALCULATION RULES

Applicable time period of collected data: 2021

Cut-off rules: Use and maintenance of auxiliary materials, equipment, capital goods and infrastructure are excluded (except those included in Ecoinvent processes).

SENARIOS AND ADDITIONAL TECHNICAL INFORMATION

Product stage (A1-A3)

A1 - Extraction of raw materials and processing of intermediate products and energy which occurs upstreams to the Degalux manufacturing site. This includes the manufacturing of the coated aluminium profiles, the slats, the motor etc.

A2 - Transport of intermediate products to the Degalux manufacturing site.

A3 - Considers all processes and impact linked to the assembly and packaging.

Construction stage (A4-A5)

A4 - Transport of the final packed product to the construction site.

A5 - Includes end-of-life of packaging material and construction waste (0.03m² or 3%).

Use stage (B1-B7)

B1 - Usage of the product

B2 - Maintenance

B3 - Reparations

B4 - Replacements of spare parts

B5 - Renovations

End-of-life stage (C2-C4)

C1 - All activities at the demolition site

C2 - Necessary transport from the demolition site to the according waste treatment facilities.

C3 - Incineration and recycling

C4 - Final disposal through landfilling

Load and benefits beyond system boundaries (D)

D - All benefits and loads associated with recycling and incineration. The amount of avoided energy is calculated using the Lower Heating Values and the incineration efficiencies mentioned in the NMD Determination method.

DECLARATION OF SVHC

None of the substances contained in the product are listed in the "Candidate List of Substances of Very High Concern for authorisation", or they do not exceed the threshold with the European Chemicals Agency.

REFERENCES

ISO, 2006. "Environmental management. Life cycle assessment - Principles and framework".

ISO 14040:2006 and Requirements and Guidelines".

ISO 14044:2006; ISO/TR 14025, "Environmental labels and declarations – Type III environmental declarations",

ISO/TR 14025:2000; EN 15804+A1:2012 Sustainability of construction works - Environmental product declarations - Core rules for the product category of construction products.

"EN 15804+A2:2019 Sustainability of construction works - Environmental product declarations - Core rules for the product category of construction products". "

Bepalingsmethode Milieuprestatie Bouwwerken versie 1.1, maart 2022"

'Forfaitaire waarden voor verwerking-scenario's einde leven behorende bij: Bepalingsmethode Milieuprestatie Bouwwerken', Stichting Nationale Milieudatabase, November 2020.

REMARKS

None..