

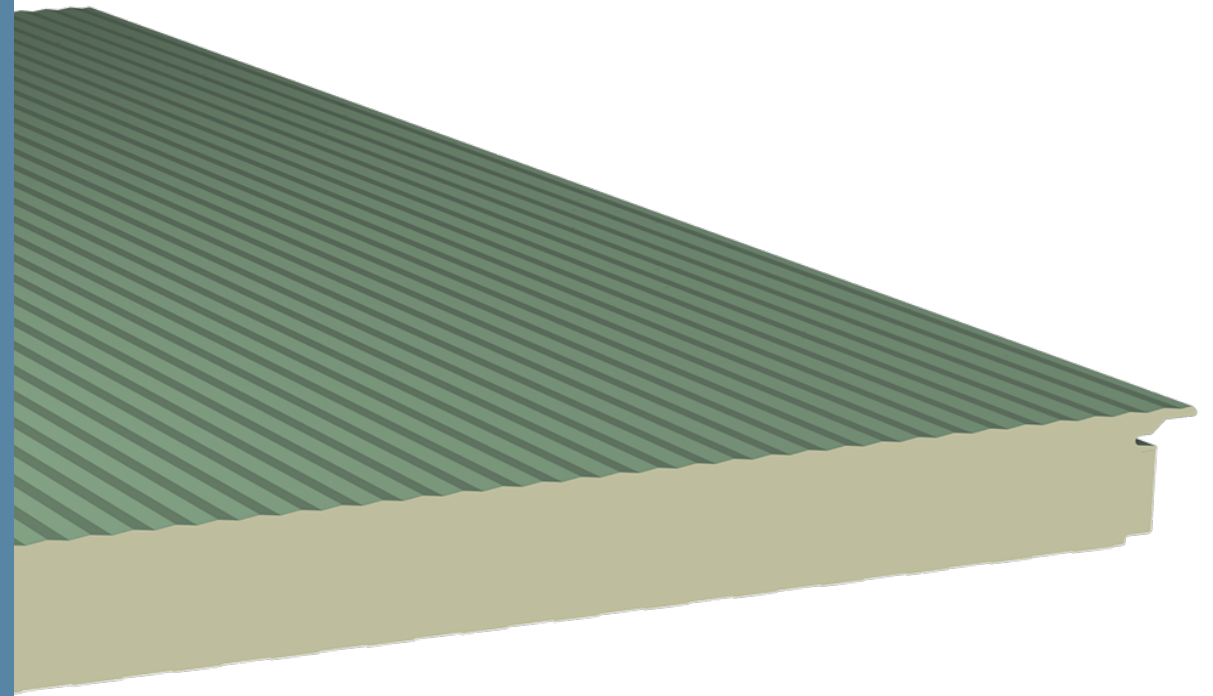
Result summary

# FALK 1060 WB CradleCore®

FALK Bouwsystemen BV

Calculation number:	EPD-NIBE-20230316-36204
Generation on:	03-08-2023
Issue date:	03-08-2023
Valid until:	03-08-2028
Status:	verified

R<THiNK



## 1 General information

### 1.1 PRODUCT

FALK 1060 WB CradleCore®

### 1.2 VALIDITY

**Issue date** 03-08-2023

**Valid until:** 03-08-2028

### 1.3 OWNER OF THE DECLARATION



**Manufacturer:** FALK Bouwsystemen BV

**Address:** Neonstraat 23, 6718 WX Ede

**E-mail:** info@falkbouwsystemen.nl

**Website:** www.falkbouwsystemen.nl

**Production location:** Falk Bouwsystemen BV

**Address production location:** Neonstraat 23, 6718 WX Ede

### 1.4 VERIFICATION OF THE DECLARATION

CEN standard EN 15804:2012+A2:2019 serves as the core PCR. In compliance with ISO 14040:2006 and 14044:2006.

Independent verification of the declaration according to EN ISO 14025:2011-10.

Internal  External

Kamiel Jansen, Review by Aveco de Bondt

### 1.5 THIS DECLARATION IS BASED ON THE PRODUCT CATEGORY RULES

NMD Determination method Environmental performance Construction works v1.1 March 2022

### 1.6 FUNCTIONAL UNIT

**m2 sandwichpanel**

Declared unit: square meter (m2)

One square meter of roof or wall cladding. The EPD includes 1 layer of framework, fasteners, finishing and maintenance. The framework must meet the strength requirements for the relevant facade cladding. The thickness excluding battening is specified as dimension 1.

### 1.7 CONVERSION FACTORS

Description	Value	Unit
Declared unit	1	m2
Weight per declared unit	11.472	kg
Conversion factor to 1 kg	0.087166	m2

### 1.8 SCOPE OF DECLARATION AND SYSTEM BOUNDARIES

This is a Cradle to gate with options, modules C1-C4 and module D LCA. The life cycle stages included are as shown below:

(X = module included, ND = module not declared)

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	ND	ND	ND	ND	X	X	X	X	X

The modules of the EN15804 contain the following:

## 1 General information

Module A1 = Raw material supply	Module B5 = Refurbishment
Module A2 = Transport	Module B6 = Operational energy use
Module A3 = Manufacturing	Module B7 = Operational water use
Module A4 = Transport	Module C1 = De-construction / Demolition
Module A5 = Construction - Installation process	Module C2 = Transport
Module B1 = Use	Module C3 = Waste Processing
Module B2 = Maintenance	Module C4 = Disposal
Module B3 = Repair	Module D = Benefits and loads beyond the product system boundaries

Module B4 = Replacement

### 1.9 COMPARABILITY

In principle, a comparison or assessment of the environmental impacts of different products is only possible if they have been prepared in accordance with EN 15804. For the evaluation of the comparability, the following aspects have to be considered in particular: PCR used, functional or declared unit, geographical reference, the definition of the system boundary, declared modules, data selection (primary or secondary data, background database, data quality), scenarios used for use and disposal phases, and the life cycle inventory (data collection, calculation methods, allocations, validity period). PCRs and general program instructions of different EPDs programs may differ. Comparability needs to be evaluated. For further guidance, see EN 15804+A2 (5.3 Comparability of EPD for construction products) and ISO 14025 (6.7.2 Requirements for comparability).

## 2 Product

### 2.1 PRODUCT DESCRIPTION

This environmental profile is valid for a FALK 1060 WB sandwich panel with circular CradleCore® insulation core.

This sandwich panel, made by Dutch manufacturer FALK Bouwsystemen, can be used as a façade, internal wall or ceiling. The FALK 1060 WB panel has two profiled steel sheets. The CradleCore® insulation core is placed between these sheets, which allows for a high Rc-value up to 7,53 m<sup>2</sup>K/W to be reached. A micro rib, maxi rib, box or rail profile can be selected for the exterior. After installation, fasteners are concealed.

#### Circularity with CradleCore®

What makes FALK CradleCore® sandwich panels unique, is the fact that they come with a circularity statement, by means of, a return guarantee or repurchase guarantee. By selecting CradleCore®, valuable commodities remain available for future generations. Additionally, the building owner also benefits from a very attractive LCA-score, since waste streams are the foundation for a new product. This works as following: At the end-of-life FALK 1060 WB CradleCore® sandwich panels are being recycled back to virgin materials through our partner Insus. Insus has a unique process for recycling the foam component. Steel is separated through a different waste stream and sold back to steel suppliers. Insus is currently the only licensed recycling company in this field in the Netherlands and only operates with FALK sandwich panels.

More information about CradleCore® and the recycling process can be found on our website: <https://www.falkbouwsystemen.nl/nl-nl/kennis/cradlecore>

#### Technical data

- **Working width:** 1000-1060 mm
- **Core material:** CradleCore® - Circular IsoFR (PIR) insulation core
- **Interior coating:** FALK Broken White (other coatings available upon request)
- **Exterior coating:** Colorcoat HPS200 ULTRA & Colorcoat Prisma® (other coatings available upon request)
- **Warranties:** Confidex warranty on 'Colorcoat' coatings
- **Minimal length:** 2.000 mm (shorter upon request)
- **Maximum length:** 20.000 mm
- **Rc-value:** 4,7 m<sup>2</sup>K/W (at 100 mm core thickness) (NTA8800). The Rc value is dependant on the thickness of the product.
- **Fire resistance:** plenty of options, please contact our technical department.
- **Reaction to fire:** B-s1,d0
- **Product circularity index:** 62%
- **Detachability index V2.0 (Losmaakbaarheidsindex V2.0):** 67%

- **Company certifications:** ISO9001, ISO14001, BES6001
- **Product certifications:** Allgemeine bauaufsichtliche Zulassung, FM-approval, losmaakbaarheidsindex

More technical information available through our website [www.falkbouwsystemen.nl](http://www.falkbouwsystemen.nl)

Technical support: [advies@falkbouwsystemen.nl](mailto:advies@falkbouwsystemen.nl)

#### Declaration of SVHC

This product contains no substances on the REACH SVHC candidate list in numbers greater than 0.1% (1000ppm)

### 2.2 DESCRIPTION PRODUCTION PROCESS

Manufacturing of sandwich panels takes place at continuously working production plants. The production speed depends, among other things, on the type of production, and sandwich panel thickness. The process starts by decoiling the steel coils and bringing them into the production line. After that, the steel is molded into the desired profile. After molding, the surface is preheated, and primer is applied. Subsequently, the liquid PIR-foam is placed onto the sheet. During the next step, the panel goes into the double belt where the foam hardens and attaches to both sheets. After the panel comes out of the double belt, a sealing tape is applied. After that, the panel is cut to size, cooled in the cooling zone, stacked, and packed. Ultimately, the products are shipped to the customer.

Total energy usage per square meter of sandwichpanel was derived from supplier specific datasheets

Production waste: Loss (scrap, approximately 2% which is used for circular processing)

Emission during production: pentane loss during foaming

### 2.3 CONSTRUCTION DESCRIPTION

Screws are used to install the sandwich panels onto the building structure. This installation needs to be conducted in accordance with MDG-guidelines. Material required: for the installation of sandwich panels various types of machinery are used such as: drilling machines, cherry pickers, telehandler forklifts, and tower cranes.

The installation method is strongly determined by the length and application of the sandwich panels. For shorter lengths, manpower and a hand-held drill are sufficient. For longer lengths and roofing applications, machinery such as telehandler forklifts, cherry pickers and tower cranes can be used.

## 3 Results

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### 3 Results

#### 3.1 ENVIRONMENTAL IMPACT INDICATORS PER SQUARE METER (SOLID PART)

##### CORE ENVIRONMENTAL IMPACT INDICATORS EN15804+A2

Abbreviation	Unit	A1	A2	A3	A4	A5	B1	B2	B3	C1	C2	C3	C4	D	Total
AP	mol H+ eqv.	7.04E-2	1.54E-2	2.74E-3	9.22E-4	7.27E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	3.21E-4	2.13E-3	2.02E-5	-3.79E-2	6.14E-2
GWP-total	kg CO2 eqv.	2.24E+1	6.66E-1	8.19E-1	1.59E-1	1.23E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	5.53E-2	1.90E-1	2.10E-3	-1.38E+1	1.17E+1
GWP-b	kg CO2 eqv.	-1.65E-2	-2.27E-5	9.16E-3	7.34E-5	-5.50E-4	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.55E-5	-1.02E-2	-2.76E-5	1.61E-1	1.43E-1
GWP-f	kg CO2 eqv.	2.24E+1	6.65E-1	8.10E-1	1.59E-1	1.23E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	5.53E-2	2.00E-1	2.13E-3	-1.40E+1	1.16E+1
GWP-luluc	kg CO2 eqv.	6.06E-3	3.84E-4	3.82E-4	5.82E-5	2.51E-4	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.03E-5	2.27E-4	9.36E-7	5.13E-3	1.25E-2
EP-m	kg N eqv.	1.24E-2	3.93E-3	5.19E-4	3.25E-4	2.52E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.13E-4	4.77E-4	6.67E-6	-7.29E-3	1.30E-2
EP-fw	kg P eqv.	9.14E-4	4.13E-6	3.97E-5	1.60E-6	3.25E-5	0.00E+0	0.00E+0	0.00E+0	0.00E+0	5.57E-7	5.82E-5	3.81E-8	-2.95E-4	7.56E-4
EP-T	mol N eqv.	1.55E-1	4.36E-2	6.56E-3	3.58E-3	2.82E-2	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.25E-3	5.59E-3	7.35E-5	-6.76E-2	1.77E-1
ODP	kg CFC 11 eqv.	4.31E-7	1.38E-7	3.67E-8	3.51E-8	1.13E-7	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.22E-8	2.70E-8	8.70E-10	-5.83E-8	7.36E-7
POCP	kg NMVOC eqv.	4.41E-2	1.14E-2	2.39E-3	1.02E-3	7.81E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	3.56E-4	1.50E-3	2.14E-5	-2.77E-2	4.10E-2
ADP-f	MJ	1.79E+2	9.04E+0	1.22E+1	2.40E+0	1.22E+1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	8.33E-1	2.71E+0	5.94E-2	-8.79E+1	1.31E+2
ADP-mm	kg Sb- eqv.	6.44E-6	9.13E-6	1.30E-6	4.03E-6	1.54E-6	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.40E-6	3.42E-6	2.38E-9	3.69E-6	3.10E-5

**AP**=Acidification (AP) | **GWP-total**=Global warming potential (GWP-total) | **GWP-b**=Global warming potential - Biogenic (GWP-b) | **GWP-f**=Global warming potential - Fossil (GWP-f) | **GWP-luluc**=Global warming potential - Land use and land use change (GWP-luluc) | **EP-m**=Eutrophication marine (EP-m) | **EP-fw**=Eutrophication, freshwater (EP-fw) | **EP-T**=Eutrophication, terrestrial (EP-T) | **ODP**=Ozone depletion (ODP) | **POCP**=Photochemical ozone formation - human health (POCP) | **ADP-f**=Resource use, fossils (ADP-f) | **ADP-mm**=Resource use, minerals and metals (ADP-mm) | **WDP**=Water use (WDP)

### 3 Results

Abbreviation	Unit	A1	A2	A3	A4	A5	B1	B2	B3	C1	C2	C3	C4	D	Total
WDP	m3 world eqv.	3.22E+0	2.07E-2	2.21E-1	8.58E-3	1.17E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.98E-3	3.15E-2	2.76E-3	-1.75E+0	1.88E+0

**AP**=Acidification (AP) | **GWP-total**=Global warming potential (GWP-total) | **GWP-b**=Global warming potential - Biogenic (GWP-b) | **GWP-f**=Global warming potential - Fossil (GWP-f) | **GWP-luluc**=Global warming potential - Land use and land use change (GWP-luluc) | **EP-m**=Eutrophication marine (EP-m) | **EP-fw**=Eutrophication, freshwater (EP-fw) | **EP-T**=Eutrophication, terrestrial (EP-T) | **ODP**=Ozone depletion (ODP) | **POCP**=Photochemical ozone depletion - human health (POCP) | **ADP-f**=Resource use, fossils (ADP-f) | **ADP-mm**=Resource use, minerals and metals (ADP-mm) | **WDP**=Water use (WDP)

#### ADDITIONAL ENVIRONMENTAL IMPACT INDICATORS EN15084+A2

Abbreviation	Unit	A1	A2	A3	A4	A5	B1	B2	B3	C1	C2	C3	C4	D	Total
ETP-fw	CTUe	3.09E+2	6.70E+0	7.74E+0	2.14E+0	1.41E+1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	7.43E-1	6.39E+0	3.31E-2	-2.24E+2	1.23E+2
PM	disease incidence	4.84E-7	3.43E-8	1.67E-8	1.43E-8	1.36E-7	0.00E+0	0.00E+0	0.00E+0	0.00E+0	4.97E-9	2.79E-8	3.82E-10	-2.46E-7	4.74E-7
HTP-c	CTUh	4.93E-8	3.46E-10	5.64E-10	6.93E-11	1.68E-9	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.41E-11	1.98E-10	8.39E-13	-2.80E-8	2.42E-8
HTP-nc	CTUh	1.43E-7	6.28E-9	2.00E-8	2.34E-9	8.28E-9	0.00E+0	0.00E+0	0.00E+0	0.00E+0	8.13E-10	8.60E-9	2.64E-11	7.25E-7	9.14E-7
IR	kBq U235 eqv.	3.93E-1	3.84E-2	2.12E-2	1.00E-2	3.98E-2	0.00E+0	0.00E+0	0.00E+0	0.00E+0	3.49E-3	1.22E-2	2.43E-4	-5.89E-2	4.60E-1
SQP	Pt	3.97E+1	3.80E+0	1.98E+0	2.08E+0	2.44E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	7.23E-1	5.04E+0	1.26E-1	-1.25E+1	4.34E+1

**ETP-fw**=Ecotoxicity, freshwater (ETP-fw) | **PM**=Particulate Matter (PM) | **HTP-c**=Human toxicity, cancer (HTP-c) | **HTP-nc**=Human toxicity, non-cancer (HTP-nc) | **IR**=Ionising radiation, human health (IR) | **SQP**=Land use (SQP)

#### CLASSIFICATION OF DISCLAIMERS TO THE DECLARATION OF CORE AND ADDITIONAL ENVIRONMENTAL IMPACT INDICATORS

ILCD classification	Indicator	Disclaimer
ILCD type / level 1	Global warming potential (GWP)	None
	Depletion potential of the stratospheric ozone layer (ODP)	None
	Potential incidence of disease due to PM emissions (PM)	None
ILCD type / level 2	AAcidification potential, Accumulated Exceedance (AP)	None
	Eutrophication potential, Fraction of nutrients reaching freshwater end compartment (EP-freshwater)	None

### 3 Results

ILCD classification	Indicator	Disclaimer
ILCD type / level 3	Eutrophication potential, Fraction of nutrients reaching marine end compartment (EP-marine)	None
	Eutrophication potential, Accumulated Exceedance (EP-terrestrial)	None
	Formation potential of tropospheric ozone (POCP)	None
	Potential Human exposure efficiency relative to U235 (IRP)	1
	Abiotic depletion potential for non-fossil resources (ADP-minerals&metals)	2
	Abiotic depletion potential for fossil resources (ADP-fossil)	2
	Water (user) deprivation potential, deprivation-weighted water consumption (WDP)	2
	Potential Comparative Toxic Unit for ecosystems (ETP-fw)	2
	Potential Comparative Toxic Unit for humans (HTP-c)	2
	Potential Comparative Toxic Unit for humans (HTP-nc)	2
	Potential Soil quality index (SQP)	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 disposal in underground facilities. Potential ionizing radiation from the soil, from radon and from some construction materials is also not measured by this indicator.

**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.

#### CORE ENVIRONMENTAL IMPACT INDICATORS EN15804+A1

Abbreviation	Unit	A1	A2	A3	A4	A5	B1	B2	B3	C1	C2	C3	C4	D	Total
ADPE	Kg Sb	6.51E-6	9.13E-6	1.30E-6	4.03E-6	1.55E-6	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.40E-6	3.42E-6	2.38E-9	3.64E-6	3.10E-5
GWP	Kg CO2 Equiv.	2.18E+1	6.60E-1	7.90E-1	1.58E-1	1.21E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	5.48E-2	1.96E-1	2.08E-3	-1.35E+1	1.13E+1
ODP	Kg CFC-11 Equiv.	6.57E-7	1.10E-7	3.90E-8	2.80E-8	9.97E-8	0.00E+0	0.00E+0	0.00E+0	0.00E+0	9.72E-9	2.33E-8	6.90E-10	-1.83E-7	7.84E-7
POCP		9.83E-3	7.11E-4	6.17E-4	9.51E-5	7.82E-4	0.00E+0	0.00E+0	0.00E+0	0.00E+0	3.31E-5	1.54E-4	2.21E-6	-6.83E-3	5.39E-3

**ADPE**=Depletion of abiotic resources-elements | **GWP**=Global warming | **ODP**=Ozone layer depletion | **POCP**=Photochemical oxidants creation | **AP**=Acidification of soil and water | **EP**=Eutrophication



### 3 Results

Abbreviation	Unit	A1	A2	A3	A4	A5	B1	B2	B3	C1	C2	C3	C4	D	Total
	Kg Ethene Equiv.														
AP	Kg SO2 Equiv.	5.03E-2	1.22E-2	2.15E-3	6.93E-4	5.24E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.41E-4	1.70E-3	1.54E-5	-2.75E-2	4.51E-2
EP	Kg PO43- Equiv.	7.88E-3	1.43E-3	3.36E-4	1.36E-4	1.04E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	4.73E-5	3.64E-4	2.90E-6	-3.30E-3	7.93E-3

**ADPE**=Depletion of abiotic resources-elements | **GWP**=Global warming | **ODP**=Ozone layer depletion | **POCP**=Photochemical oxidants creation | **AP**=Acidification of soil and water | **EP**=Eutrophication

#### NATIONAL ANNEX NMD

Abbreviation	Unit	A1	A2	A3	A4	A5	B1	B2	B3	C1	C2	C3	C4	D	Total
ADPF	Kg Sb	1.26E-1	4.33E-3	6.43E-3	1.16E-3	7.05E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	4.03E-4	1.28E-3	2.84E-5	-7.40E-2	7.22E-2
HTP	kg 1.4 DB	4.13E+0	3.39E-1	1.24E-1	6.64E-2	3.17E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.31E-2	1.87E-1	8.50E-4	-1.88E+0	3.31E+0
FAETP	kg 1.4 DB	6.12E-2	6.78E-3	2.77E-3	1.94E-3	4.66E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	6.74E-4	2.62E-3	2.11E-5	-1.59E-2	6.47E-2
MAETP	kg 1.4 DB	2.06E+2	2.88E+1	1.05E+1	6.97E+0	1.63E+1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.42E+0	1.58E+1	7.25E-2	-4.82E+1	2.39E+2
TETP	kg 1.4 DB	2.08E-2	1.05E-3	4.30E-3	2.35E-4	1.01E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	8.15E-5	6.12E-4	2.52E-6	1.62E-1	1.90E-1

**ADPF**=Depletion of abiotic resources-fossil fuels | **HTP**=Human toxicity | **FAETP**=Ecotoxicity, fresh water | **MAETP**=Ecotoxicity, marine water (MAETP) | **TETP**=Ecotoxicity, terrestrial

### 3 Results

#### 3.2 ENVIRONMENTAL IMPACT INDICATORS PER SQUARE METER (SCALABLE PART)

##### CORE ENVIRONMENTAL IMPACT INDICATORS EN15804+A2

Abbreviation	Unit	A1	A2	A3	A4	A5	B1	B2	B3	C1	C2	C3	C4	D	Total
AP	mol H+ eqv.	1.27E-1	1.74E-3	4.38E-4	4.49E-4	8.03E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.48E-4	1.31E-1	0.00E+0	-2.08E-1	6.14E-2
GWP-total	kg CO2 eqv.	2.10E+1	3.01E-1	9.84E-2	7.75E-2	1.25E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.56E-2	1.63E+1	0.00E+0	-3.48E+1	4.25E+0
GWP-b	kg CO2 eqv.	2.01E-1	1.39E-4	-2.47E-3	3.58E-5	7.60E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.18E-5	-5.35E-2	0.00E+0	-3.90E-1	-2.38E-1
GWP-f	kg CO2 eqv.	2.08E+1	3.01E-1	1.01E-1	7.74E-2	1.24E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.56E-2	1.63E+1	0.00E+0	-3.44E+1	4.49E+0
GWP-luluc	kg CO2 eqv.	1.14E-2	1.10E-4	7.69E-5	2.84E-5	6.05E-4	0.00E+0	0.00E+0	0.00E+0	0.00E+0	9.38E-6	7.12E-3	0.00E+0	-1.98E-2	-4.62E-4
EP-m	kg N eqv.	3.34E-2	6.14E-4	7.95E-5	1.58E-4	1.47E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	5.23E-5	1.32E-2	0.00E+0	-5.33E-2	-4.39E-3
EP-fw	kg P eqv.	1.19E-3	3.03E-6	3.41E-6	7.81E-7	4.93E-5	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.58E-7	3.61E-4	0.00E+0	-2.14E-3	-5.32E-4
EP-T	mol N eqv.	2.39E-1	6.77E-3	8.88E-4	1.74E-3	1.86E-2	0.00E+0	0.00E+0	0.00E+0	0.00E+0	5.77E-4	3.57E-1	0.00E+0	-3.90E-1	2.35E-1
ODP	kg CFC 11 eqv.	3.30E-6	6.64E-8	3.28E-9	1.71E-8	1.79E-7	0.00E+0	0.00E+0	0.00E+0	0.00E+0	5.65E-9	2.37E-6	0.00E+0	-5.07E-6	8.73E-7
POCP	kg NMVOC eqv.	8.80E-2	1.93E-3	9.57E-2	4.98E-4	6.96E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.65E-4	4.16E-2	0.00E+0	-1.82E-1	5.32E-2
ADP-f	MJ	3.98E+2	4.53E+0	2.81E+0	1.17E+0	2.09E+1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	3.86E-1	2.71E+2	0.00E+0	-6.54E+2	4.52E+1
ADP-mm	kg Sb- eqv.	3.14E-4	7.62E-6	9.59E-7	1.96E-6	2.26E-5	0.00E+0	0.00E+0	0.00E+0	0.00E+0	6.48E-7	3.89E-4	0.00E+0	-5.65E-4	1.72E-4

**AP**=Acidification (AP) | **GWP-total**=Global warming potential (GWP-total) | **GWP-b**=Global warming potential - Biogenic (GWP-b) | **GWP-f**=Global warming potential - Fossil (GWP-f) | **GWP-luluc**=Global warming potential - Land use and land use change (GWP-luluc) | **EP-m**=Eutrophication marine (EP-m) | **EP-fw**=Eutrophication, freshwater (EP-fw) | **EP-T**=Eutrophication, terrestrial (EP-T) | **ODP**=Ozone depletion (ODP) | **POCP**=Photochemical ozone formation - human health (POCP) | **ADP-f**=Resource use, fossils (ADP-f) | **ADP-mm**=Resource use, minerals and metals (ADP-mm) | **WDP**=Water use (WDP)

### 3 Results

Abbreviation	Unit	A1	A2	A3	A4	A5	B1	B2	B3	C1	C2	C3	C4	D	Total
WDP	m3 world eqv.	1.67E+1	1.62E-2	7.70E-2	4.18E-3	1.43E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.38E-3	3.04E+1	0.00E+0	-2.77E+1	2.09E+1

**AP**=Acidification (AP) | **GWP-total**=Global warming potential (GWP-total) | **GWP-b**=Global warming potential - Biogenic (GWP-b) | **GWP-f**=Global warming potential - Fossil (GWP-f) | **GWP-luluc**=Global warming potential - Land use and land use change (GWP-luluc) | **EP-m**=Eutrophication marine (EP-m) | **EP-fw**=Eutrophication, freshwater (EP-fw) | **EP-T**=Eutrophication, terrestrial (EP-T) | **ODP**=Ozone depletion (ODP) | **POCP**=Photochemical ozone formation - human health (POCP) | **ADP-f**=Resource use, fossils (ADP-f) | **ADP-mm**=Resource use, minerals and metals (ADP-mm) | **WDP**=Water use (WDP)

#### ADDITIONAL ENVIRONMENTAL IMPACT INDICATORS EN15084+A2

Abbreviation	Unit	A1	A2	A3	A4	A5	B1	B2	B3	C1	C2	C3	C4	D	Total
ETP-fw	CTUe	1.55E+3	4.04E+0	1.20E+0	1.04E+0	5.73E+1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	3.44E-1	2.94E+2	0.00E+0	-2.54E+3	-6.40E+2
PM	disease incidence	1.33E-6	2.70E-8	3.39E-9	6.97E-9	9.91E-8	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.30E-9	1.88E-6	0.00E+0	-2.29E-6	1.06E-6
HTP-c	CTUh	2.63E-7	1.31E-10	2.99E-11	3.38E-11	1.10E-8	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.12E-11	9.86E-8	0.00E+0	-3.93E-7	-2.09E-8
HTP-nc	CTUh	2.48E-6	4.42E-9	8.03E-10	1.14E-9	8.38E-8	0.00E+0	0.00E+0	0.00E+0	0.00E+0	3.76E-10	2.51E-7	0.00E+0	-3.82E-6	-9.93E-7
IR	kBq U235 eqv.	8.01E-1	1.90E-2	3.48E-3	4.89E-3	4.44E-2	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.62E-3	5.48E-1	0.00E+0	-1.40E+0	2.08E-2
SQP	Pt	4.91E+1	3.93E+0	4.49E-1	1.01E+0	3.47E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	3.35E-1	5.22E+1	0.00E+0	-8.52E+1	2.54E+1

**ETP-fw**=Ecotoxicity, freshwater (ETP-fw) | **PM**=Particulate Matter (PM) | **HTP-c**=Human toxicity, cancer (HTP-c) | **HTP-nc**=Human toxicity, non-cancer (HTP-nc) | **IR**=Ionising radiation, human health (IR) | **SQP**=Land use (SQP)

#### CLASSIFICATION OF DISCLAIMERS TO THE DECLARATION OF CORE AND ADDITIONAL ENVIRONMENTAL IMPACT INDICATORS

ILCD classification	Indicator	Disclaimer
ILCD type / level 1	Global warming potential (GWP)	None
	Depletion potential of the stratospheric ozone layer (ODP)	None
	Potential incidence of disease due to PM emissions (PM)	None
ILCD type / level 2	AAcidification potential, Accumulated Exceedance (AP)	None
	Eutrophication potential, Fraction of nutrients reaching freshwater end compartment (EP-freshwater)	None

### 3 Results

ILCD classification	Indicator	Disclaimer
ILCD type / level 3	Eutrophication potential, Fraction of nutrients reaching marine end compartment (EP-marine)	None
	Eutrophication potential, Accumulated Exceedance (EP-terrestrial)	None
	Formation potential of tropospheric ozone (POCP)	None
	Potential Human exposure efficiency relative to U235 (IRP)	1
	Abiotic depletion potential for non-fossil resources (ADP-minerals&metals)	2
	Abiotic depletion potential for fossil resources (ADP-fossil)	2
	Water (user) deprivation potential, deprivation-weighted water consumption (WDP)	2
	Potential Comparative Toxic Unit for ecosystems (ETP-fw)	2
	Potential Comparative Toxic Unit for humans (HTP-c)	2
	Potential Comparative Toxic Unit for humans (HTP-nc)	2
	Potential Soil quality index (SQP)	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 disposal in underground facilities. Potential ionizing radiation from the soil, from radon and from some construction materials is also not measured by this indicator.

**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.

#### CORE ENVIRONMENTAL IMPACT INDICATORS EN15804+A1

Abbreviation	Unit	A1	A2	A3	A4	A5	B1	B2	B3	C1	C2	C3	C4	D	Total
ADPE	Kg Sb	3.14E-4	7.62E-6	9.59E-7	1.96E-6	2.26E-5	0.00E+0	0.00E+0	0.00E+0	0.00E+0	6.48E-7	3.89E-4	0.00E+0	-5.65E-4	1.72E-4
GWP	Kg CO2 Equiv.	1.98E+1	2.98E-1	9.77E-2	7.68E-2	1.20E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.54E-2	1.60E+1	0.00E+0	-3.28E+1	4.70E+0
ODP	Kg CFC-11 Equiv.	3.30E-6	5.29E-8	3.38E-9	1.36E-8	1.66E-7	0.00E+0	0.00E+0	0.00E+0	0.00E+0	4.50E-9	1.97E-6	0.00E+0	-5.08E-6	4.25E-7
POCP		2.48E-2	1.80E-4	5.65E-2	4.63E-5	2.73E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.53E-5	8.37E-3	0.00E+0	-6.25E-2	3.02E-2

**ADPE**=Depletion of abiotic resources-elements | **GWP**=Global warming | **ODP**=Ozone layer depletion | **POCP**=Photochemical oxidants creation | **AP**=Acidification of soil and water | **EP**=Eutrophication

### 3 Results

Abbreviation	Unit	A1	A2	A3	A4	A5	B1	B2	B3	C1	C2	C3	C4	D	Total
	Kg Ethene Equiv.														
AP	Kg SO2 Equiv.	1.04E-1	1.31E-3	3.62E-4	3.38E-4	6.16E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.12E-4	9.43E-2	0.00E+0	-1.70E-1	3.67E-2
EP	Kg PO43- Equiv.	2.36E-2	2.58E-4	4.04E-5	6.63E-5	1.12E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.19E-5	1.23E-2	0.00E+0	-3.78E-2	-3.10E-4

**ADPE**=Depletion of abiotic resources-elements | **GWP**=Global warming | **ODP**=Ozone layer depletion | **POCP**=Photochemical oxidants creation | **AP**=Acidification of soil and water | **EP**=Eutrophication

#### NATIONAL ANNEX NMD

Abbreviation	Unit	A1	A2	A3	A4	A5	B1	B2	B3	C1	C2	C3	C4	D	Total
ADPF	Kg Sb	1.94E-1	2.19E-3	1.37E-3	5.65E-4	1.05E-2	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.87E-4	1.42E-1	0.00E+0	-3.15E-1	3.59E-2
HTP	kg 1.4 DB	9.77E+0	1.26E-1	2.27E-2	3.23E-2	6.08E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.07E-2	8.83E+0	0.00E+0	-1.57E+1	3.69E+0
FAETP	kg 1.4 DB	2.69E-1	3.66E-3	5.47E-4	9.44E-4	1.84E-2	0.00E+0	0.00E+0	0.00E+0	0.00E+0	3.12E-4	3.09E-1	0.00E+0	-4.33E-1	1.69E-1
MAETP	kg 1.4 DB	4.89E+2	1.32E+1	1.79E+0	3.40E+0	4.79E+1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.12E+0	1.01E+3	0.00E+0	-8.35E+2	7.35E+2
TETP	kg 1.4 DB	5.07E-2	4.44E-4	1.14E-4	1.14E-4	3.49E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	3.78E-5	5.46E-2	0.00E+0	-8.41E-2	2.54E-2

**ADPF**=Depletion of abiotic resources-fossil fuels | **HTP**=Human toxicity | **FAETP**=Ecotoxicity, fresh water | **MAETP**=Ecotoxicity, marine water (MAETP) | **TETP**=Ecotoxicity, terrestrial

### 3 Results

#### 3.3 ENVIRONMENTAL IMPACT INDICATORS PER SQUARE METER (SOLID PART)

##### PARAMETERS DESCRIBING RESOURCE USE

Abbreviation	Unit	A1	A2	A3	A4	A5	B1	B2	B3	C1	C2	C3	C4	D	Total
PERE	MJ	9.28E+0	8.13E-2	7.59E-1	3.00E-2	3.55E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.04E-2	3.96E-1	1.52E-3	-1.41E-2	1.09E+1
PERM	MJ	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
PERT	MJ	9.28E+0	8.13E-2	7.59E-1	3.00E-2	3.55E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.04E-2	3.96E-1	1.52E-3	-1.41E-2	1.09E+1
PENRE	MJ	2.16E+2	9.60E+0	1.37E+1	2.54E+0	1.37E+1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	8.85E-1	2.88E+0	6.32E-2	-2.21E+0	2.57E+2
PENRM	MJ	0.00E+0	0.00E+0	1.65E+0	0.00E+0	4.94E-2	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	-9.91E-1	7.03E-1
PENRT	MJ	2.16E+2	9.60E+0	1.53E+1	2.54E+0	1.38E+1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	8.85E-1	2.88E+0	6.32E-2	-3.20E+0	2.58E+2
SM	Kg	5.07E-1	0.00E+0	1.01E-2	0.00E+0	1.55E-2	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	5.33E-1
RSF	MJ	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
NRSF	MJ	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
FW	M3	1.50E-1	7.17E-4	9.71E-3	2.92E-4	5.22E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.02E-4	8.60E-4	6.40E-5	-2.02E-3	1.65E-1

PERE=renewable primary energy ex. raw materials | PERM=renewable primary energy used as raw materials | PERT=renewable primary energy total | PENRE=non-renewable primary energy ex. raw materials | PENRM=non-renewable primary energy used as raw materials | PENRT=non-renewable primary energy total | SM=use of secondary material | RSF=use of renewable secondary fuels | NRSF=use of non-renewable secondary fuels | FW=use of net fresh water

##### OTHER ENVIRONMENTAL INFORMATION DESCRIBING WASTE CATEGORIES

Abbreviation	Unit	A1	A2	A3	A4	A5	B1	B2	B3	C1	C2	C3	C4	D	Total
HWD	Kg	8.74E-4	1.40E-5	2.14E-5	6.07E-6	4.38E-5	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.11E-6	3.28E-6	4.21E-8	-5.35E-7	9.64E-4
NHWD	Kg	1.89E+0	2.37E-1	7.38E-2	1.52E-1	9.82E-2	0.00E+0	0.00E+0	0.00E+0	0.00E+0	5.29E-2	7.85E-2	3.90E-1	-1.59E-3	2.97E+0
RWD	Kg	4.17E-4	6.15E-5	2.32E-5	1.57E-5	5.72E-5	0.00E+0	0.00E+0	0.00E+0	0.00E+0	5.47E-6	1.56E-5	3.88E-7	-2.15E-7	5.95E-4

HWD=hazardous waste disposed | NHWD=non hazardous waste disposed | RWD=radioactive waste disposed

### 3 Results

#### ENVIRONMENTAL INFORMATION DESCRIBING OUTPUT FLOWS

Abbreviation	Unit	A1	A2	A3	A4	A5	B1	B2	B3	C1	C2	C3	C4	D	Total
CRU	Kg	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
MFR	Kg	0.00E+0	0.00E+0	1.48E-1	0.00E+0	2.61E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	7.41E+0	0.00E+0	0.00E+0	7.82E+0
MER	Kg	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
EE	MJ	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.91E-1	2.91E-1
EET	MJ	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.84E-1	1.84E-1
EEE	MJ	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.07E-1	1.07E-1

CRU=Components for re-use | MFR=Materials for recycling | MER=Materials for energy recovery | EE=Exported energy | EET=Exported Energy Thermic | EEE=Exported Energy Electric

#### 3.4 ENVIRONMENTAL IMPACT INDICATORS PER SQUARE METER (SCALABLE PART)

##### PARAMETERS DESCRIBING RESOURCE USE

Abbreviation	Unit	A1	A2	A3	A4	A5	B1	B2	B3	C1	C2	C3	C4	D	Total
PERE	MJ	2.08E+1	5.68E-2	1.24E-1	1.46E-2	1.97E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	4.83E-3	4.25E+1	0.00E+0	-3.77E+1	2.78E+1
PERM	MJ	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
PERT	MJ	2.08E+1	5.68E-2	1.24E-1	1.46E-2	1.97E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	4.83E-3	4.25E+1	0.00E+0	-3.77E+1	2.78E+1
PENRE	MJ	3.09E+2	4.81E+0	1.61E+0	1.24E+0	1.90E+1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	4.10E-1	2.95E+2	0.00E+0	-6.99E+2	-6.78E+1
PENRM	MJ	1.17E+2	0.00E+0	1.40E+0	0.00E+0	3.54E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	-4.83E-2	1.21E+2
PENRT	MJ	4.25E+2	4.81E+0	3.00E+0	1.24E+0	2.25E+1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	4.10E-1	2.95E+2	0.00E+0	-6.99E+2	5.36E+1
SM	Kg	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
RSF	MJ	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
NRSF	MJ	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
FW	M3	4.31E-1	5.52E-4	1.83E-3	1.42E-4	3.54E-2	0.00E+0	0.00E+0	0.00E+0	0.00E+0	4.70E-5	7.28E-1	0.00E+0	-7.23E-1	4.74E-1

PERE=renewable primary energy ex. raw materials | PERM=renewable primary energy used as raw materials | PERT=renewable primary energy total | PENRE=non-renewable primary energy ex. raw materials | PENRM=non-renewable primary energy used as raw materials | PENRT=non-renewable primary energy total | SM=use of secondary material | RSF=use of renewable secondary fuels | NRSF=use of non-renewable secondary fuels | FW=use of net fresh water

### 3 Results

#### OTHER ENVIRONMENTAL INFORMATION DESCRIBING WASTE CATEGORIES

Abbreviation	Unit	A1	A2	A3	A4	A5	B1	B2	B3	C1	C2	C3	C4	D	Total
HWD	Kg	2.38E-4	1.15E-5	5.41E-7	2.96E-6	1.80E-5	0.00E+0	0.00E+0	0.00E+0	0.00E+0	9.78E-7	3.05E-4	0.00E+0	-3.92E-4	1.85E-4
NHWD	Kg	1.48E+0	2.88E-1	8.20E-3	7.41E-2	1.12E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.45E-2	1.48E+0	0.00E+0	-2.66E+0	8.13E-1
RWD	Kg	7.79E-4	2.98E-5	2.93E-6	7.67E-6	4.86E-5	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.53E-6	7.04E-4	0.00E+0	-1.34E-3	2.36E-4

HWD=hazardous waste disposed | NHWD=non hazardous waste disposed | RWD=radioactive waste disposed

#### ENVIRONMENTAL INFORMATION DESCRIBING OUTPUT FLOWS

Abbreviation	Unit	A1	A2	A3	A4	A5	B1	B2	B3	C1	C2	C3	C4	D	Total
CRU	Kg	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
MFR	Kg	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.15E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	3.79E+0	0.00E+0	0.00E+0	3.91E+0
MER	Kg	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
EE	MJ	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	6.00E-1	6.00E-1
EET	MJ	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	3.80E-1	3.80E-1
EEE	MJ	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.21E-1	2.21E-1

CRU=Components for re-use | MFR=Materials for recycling | MER=Materials for energy recovery | EE=Exported energy | EET=Exported Energy Thermic | EEE=Exported Energy Electric



## 3 Results

### 3.5 INFORMATION ON BIOGENIC CARBON CONTENT PER SQUARE METER

#### BIOGENIC CARBON CONTENT

The following Information describes the biogenic carbon content in (the main parts of) the product at the factory gate per square meter:

Biogenic carbon content	Amount	Unit
Biogenic carbon content in the product	0	kg C
Biogenic carbon content in accompanying packaging	0	kg C

## 3 Results

### 3.6 ENVIRONMENTAL COST INDICATOR NL PER SQUARE METER

Using the environmental cost indicator (ECI) method, which is presented in the NMD Determination Method (2020), the results are aggregated to the single-point score. The ECI is a relevant valuation method, especially in the Dutch construction sector. In the Netherlands, it is a prerequisite for public tenders. The aim of the indicator is to show the shadow price for environmental impacts of a product or project. The application of single-point scores is an additional assessment tool for eco-balance results. However, it must be pointed out that weightings are always based on a value maintenance and not on a scientific basis (EN 14040). The ECI results are shown in the following table.

Module EN15804	ECI NL	Share in total (%)
A1 Raw Materials Supply	€ 4.43	218,0 %
A2 Transport	€ 0.17	8,2 %
A3 Manufacturing	€ 0.19	9,3 %
A4 Transport from the gate to the site	€ 0.03	1,4 %
A5 Construction - Installation process	€ 0.29	14,1 %
B1 Use	€ 0.00	0,0 %
B2 Maintenance	€ 0.00	0,0 %
B3 Repair	€ 0.00	0,0 %
C1 De-construction / demolition	€ 0.00	0,0 %
C2 Transport	€ 0.01	0,5 %
C3 Waste processing	€ 2.28	112,0 %
C4 Disposal	€ 0.00	0,0 %
D Benefits and loads beyond the product system boundary	€ -5.35	-263,3 %
<b>ECI NL per functional unit</b>	<b>€ 2.03</b>	

## 4 Contact information

Publisher

Operator

Owner of declaration



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