

Environmental Product Declaration

In accordance with ISO14025:2006 and EN15804:2012+A2:2019

Aggregates for construction



The Norwegian
EPD Foundation

Owner of the declaration:
Nymølle Stenindustrier A/S

Product name:
Aggregates for construction

Declared unit:
1 ton

Product category /PCR:
PCR 2019:14 Construction products

Program holder and publisher:
The Norwegian EPD foundation

Declaration number:
NEPD-12170-12195

Registration number:
NEPD-12170-12195

Issue date:
29.08.2025

Valid to:
29.08.2030

General Information

Products:

Stabiltgrus 0-32 mm kv.II,
Bundsikring 0-8 mm kv.II,
Blandet Sten, Fyldsand, Harpet fyldsand

Program operator:

The Norwegian EPD Foundation
Post Box 5250 Majorstuen, 0303 Oslo, Norway
Phone: +47 23 08 80 00
e-mail: post@epd-norge.no

Declaration number:

NEPD-12170-12195

This declaration is based on Product Category Rules:

EN 15804:2012+A2:2019 serves as core PCR
PCR 2019:14 Construction products

Statement of liability:

The owner of the declaration shall be liable for the underlying information and evidence. EPD Norway shall not be liable with respect to manufacturer, life cycle assessment data and evidences.

Declared unit:

1 ton

Declared unit with option:

A1, A2, A3, A4, C1, C2, C3, C4, D

Functional unit:

1 ton

Verification:

Independent verification of the declaration and data, according to ISO14025:2010

internal ☐ external ☒

Sign



Guangli Du

Independent verifier approved by EPD Norway

Owner of the declaration:

Nymølle Stenindustrier A/S
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Manufacturer:

Nymølle Stenindustrier A/S
Østre Hedevej 2, 4000 Roskilde, Denmark
Phone: 48 88 54 11
e-mail: www.nymoelle.dk

Place of production:

Møsvrå gravel pit
Nr Stenderupvej 84, 6000 Almind, Denmark

Management system:

EN 12620, EN 13285, and DS 206 Annex E. Please note that not all products are certified.

Organisation no:

CVR number: 48 88 54 11

Issue date:

29.08.2025

Valid to:

29.08.2030

Year of study:

2025

Comparability:

EPD of construction products may not be able to compare if they do not comply with EN 15804 and are seen in a building context.

The EPD has been worked out by:

[name]

Approved



Manager of EPD Norway

Product

Product description:

The products Stabilgrus, Bundsikring, Blandet Sten, Fyldsand and Harpet fyldsand specified in this EPD are manufactured at a gravel pit located in Møsvrå, Denmark. The products have an area of application as aggregates for construction. The deposit consists of glacial meltwater deposits from the last ice age and are a mixture of magmatic, flint, and limestone material. The products consist of sand, gravel, and stone. The products are produced by dry sieving and for Stabilgrus 0-32 mm kv. II partly by crushing of materials. From the dry sieving process two sand products, Bundsikring 0-8 mm kv. II and Harpet fyldsand, are obtained in addition to two intermediate products, 8-32 mm and 32-150 mm stones "Blandet sten". The 32-150 mm stones are used for crushing to obtain 0-40 mm crushed material, another intermediate product for further processing. Fyldsand is sand taken directly from the digging front with natural variation in the grain size distribution, typically in the interval 0-8 mm. Stabilgrus 0-32 mm kv. II is a mixture of 0-8 mm Harpet fyldsand, 8-32 mm stone and 0-40 mm crushed material.

Product specification:

The product consists of 100% aggregates, with no additives and no packaging.

Materials	Value	Unit
Stabilgrus 0-32 mm kv. II	100	%
Bundsikring 0-8 mm kv. II	100	%
Blandet Sten	100	%
Fyldsand	100	%
Harpet fyldsand	100	%

Technical data:

Density information for the 5 declared products is shown below

Final products	Density (kg/m3)
Stabilgrus 0-32 mm kv. II	1 750
Bundsikring 0-8 mm kv. II	1 500
Blandet Sten	1 500
Fyldsand	1 500
Harpet fyldsand	1 500

Market:

The products are sold and used in Denmark.

Reference service life, product:

Not applicable.

Reference service life, building:

Not applicable.

Additional technical information

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

LCA: Calculation rules

Declared unit:

1 ton of construction aggregate produced in Møsvrå.

Cut-off criteria:

The general rules for the exclusion of inputs and outputs follows the requirements in EN 15804, 6.3.5, where the total of neglected input flows per module shall be a maximum of 5 % of energy usage and mass and 1 % of energy usage and mass for unit processes. All significant raw materials and all significant energy use are included. Some production utilities present in very small amounts (less than 1%) are not included. These cut-off criteria do not apply to hazardous materials and substances.

Allocation:

Subdividing is used for the different processes. Therefore, allocation has not been applied to the total quantities, but data has been collected for each of the different machines used in production. For machines that process multiple products, mass allocation has been applied within the individual subdivided processes to ensure it reflects the underlying physical relationships between them.

Data quality:

Product specific data are based on average values collected in the period 2024-2025. Background generic data are based on LCA SimaPro software 9.6.0.1 Developer and Ecoinvent 3.10. Generally, the used background datasets are of good quality, and the processes which have the largest quantities and environmental impacts are only a couple of years old. The technical representativeness is good where data represents processes from products with similar technology and only smaller deviations. Geographical representativeness is also good where data generally represents average data from an area where the area under study is included.

System boundary:

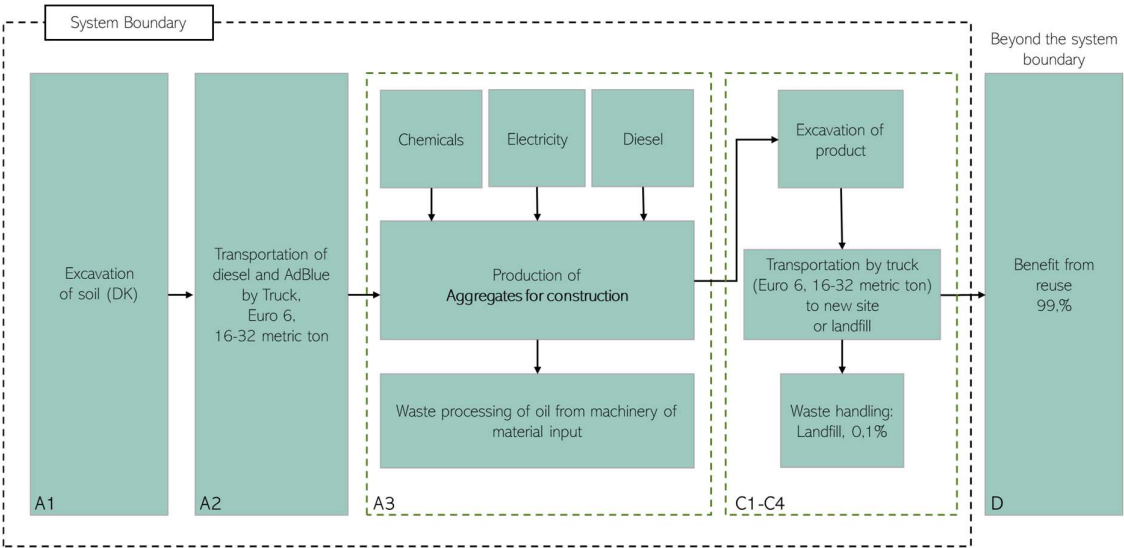
System boundaries (X=included, MND=module not declared, MNR=module not relevant)

Product stage			Assembly stage		Use stage							End of life stage				Benefits & loads beyond system boundary
Raw materials	Transport	Manufacturing	Transport	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	MND	MND	MND	MND	MND	MND	MND	MND	X	X	X	X	X

This EPD is based on a "cradle-to-gate with option" LCA with modules C1-C4 and D, in which 100 weight-% has been accounted for.

The environmental impact from infrastructure, construction, production equipment, and tools that are not directly consumed in the production process are not accounted for in the Life Cycle Inventory (LCI).

Personnel-related impacts, such as transportation to and from work, are neither accounted for in the LCI.



LCA: Scenarios and additional technical information

The following information describe the scenarios in the different modules of the EPD. The product stage comprises the acquisition of all raw materials, products and energy, transport to the production site, and waste processing up to the "end-of-waste" state or final disposal.

The module A1 encompasses the extraction and refinement of raw materials by Nymølle Stenindustrier which in this case includes removal of topsoil and excavation of raw materials. After excavation, the areas can be used for extensive agriculture, or it can be left for nature to reestablish itself and used for recreational purposes. Nymølle Stenindustrier states that they will actively create favorable habitats for wildlife and plants by establishing lakes, shallow water zones, and areas with varying soil nutrient content. This initiative aims to foster high biodiversity within a short period while also making the area suitable for recreational activities.

In module A2 the main resource used at the production site is diesel supplied to Nymølle Stenindustrier in Møsvrå through fuel trucks coming from Frederecia harbour in Denmark, 23.4 km away. AdBlue, which is used to help reduce emissions of environmentally harmful nitrogen oxides in diesel engines, is delivered by truck from Brunsbüttel, Germany, 229 km away.

In A3 module the raw material is processed by wheel loaders, fraction separators, and crushing machines. The main resources used in this stage is diesel consumption.

The LCA results are declared an aggregated form for the product stage. This means that the sub-modules A1, A2, and A3 are combined and declared as a single module, A1-A3.

Transport from production place to assembly/user (A4)

Transport from production place to assembly/user (A4)	Capacity utilisation (incl. return) [%]	Distance [km]	Fuel/Energy consumption	Unit	Value
-	-	0	-	-	-

Transport is managed by the customer, who collects the materials themselves. Nymølle Stenindustrier does not transport materials from the Møsvrå plant. All materials are delivered "at the gate," thus A4 is considered as zero.

Assembly (A5)

Not included.

Use (B1)

Not included.

Maintenance (B2)/Repair (B3)

Not included.

Replacement (B4)/Refurbishment (B5)

Not included.

Operational energy (B6) and water consumption (B7)

Not included.

End of Life (C1, C3, C4)

	Unit	Value
Hazardous waste disposed	kg	0
Collected as mixed construction waste	kg	0
Reuse	kg	999
Recycling	kg	0
Energy recovery	kg	0
To landfill	kg	1

The modules C1, C2, C3, and C4 have the same processes for all products. In module C1 the materials are extracted using an excavator.

In the C3 module there is no environmental impact associated with the waste processing stage, as all products are utilized in construction work. All products can be reused directly, eliminating the need for crushing or any additional processing.

The C4 module includes final disposal of waste. It is assumed that the aggregates are not contaminated and are used for the same purpose with the same quality. At the end of their life, aggregates are typically reused as filling material in construction projects., and 99.9% of the material is reused, while 0.1% is sent to landfill to account for minor losses.

Transport to waste processing (C2)

Transport from production place to assembly/user (C2)	Capacity utilisation (incl. return) [%]	Distance [km]	Fuel/Energy consumption	Unit	Value
Truck, 16-32 ton, EURO 6	N/A	35	Diesel	0,031	l/tkm

The C2 module includes transport of the excavated materials to waste management. A transport distance of 35 km has been used based on a publication from the European Commission 2024 titled: "EU construction & demolition waste management protocol including guidelines for pre-demolition and pre-renovation audits of construction works"

Benefits and loads beyond the system boundaries (D)

For all products, 99.9% of the aggregate material is reused. The processes for the different products in Module D are based on their corresponding production processes (A1-A3), because the products can be reused with equal quality as newly produced products. Therefore, Module D is the A1-A3 production multiplied by a reuse rate of 99.9%.

Benefits and loads beyond the system boundaries (D)	Unit	Value
Substitution of primary gravel	kg	999

It is assumed that 99.9% of the material is reused, allowing for the replacement of 999 kg of new gravel with reused gravel. The aggregates are assumed to be uncontaminated and to be used for the same purpose and of the same quality. At the end of their life, the aggregates are typically reused as fill material in construction projects.

LCA: Results

The result tables are given using a location based approach for foreground system (A3). More information about transparent reporting of electricity in the additional requirements section.

Core environmental impact indicators

Stabiltgrus 0-32 mm kv.II

Indicator	Unit	A1-A3	A4	C1	C2	C3	C4	D
GWP - total	kg CO ₂ eq	2.87E+00	0.00E+00	3.40E-01	6.66E+00	0.00E+00	5.90E-03	-2.87E+00
GWP - fossil	kg CO ₂ eq	2.87E+00	0.00E+00	3.40E-01	6.65E+00	0.00E+00	5.89E-03	-2.87E+00
GWP - biogenic	kg CO ₂ eq	8.73E-04	0.00E+00	1.11E-04	4.61E-03	0.00E+00	1.51E-05	-8.73E-04
GWP - luluc	kg CO ₂ eq	2.56E-04	0.00E+00	3.61E-05	2.21E-03	0.00E+00	9.39E-07	-2.55E-04
ODP	kg CFC11 eq	5.57E-08	0.00E+00	6.39E-09	1.32E-07	0.00E+00	2.20E-10	-5.56E-08
AP	molc H+ eq	2.48E-02	0.00E+00	2.92E-03	1.39E-02	0.00E+00	3.67E-05	-2.48E-02
EP- freshwater	kg P eq	1.12E-04	0.00E+00	1.47E-05	4.50E-04	0.00E+00	2.68E-07	-1.11E-04
EP -marine	kg N eq	1.15E-02	0.00E+00	1.35E-03	3.33E-03	0.00E+00	1.57E-05	-1.15E-02
EP - terrestrial	molc N eq	1.26E-01	0.00E+00	1.48E-02	3.59E-02	0.00E+00	1.71E-04	-1.26E-01
POCP	kg NMVOC eq	3.85E-02	0.00E+00	4.50E-03	2.30E-02	0.00E+00	6.92E-05	-3.85E-02
ADP-M&M ²	kg Sb-Eq	1.29E-06	0.00E+00	1.53E-07	2.16E-05	0.00E+00	7.39E-09	-1.29E-06
ADP-fossil ²	MJ	3.77E+01	0.00E+00	4.38E+00	9.35E+01	0.00E+00	1.47E-01	-3.77E+01
WDP ²	m ³	1.02E-01	0.00E+00	1.15E-02	3.88E-01	0.00E+00	5.07E-04	-1.02E-01

Bundsikring 0-8 mm kv.II

Indicator	Unit	A1-A3	A4	C1	C2	C3	C4	D
GWP - total	kg CO ₂ eq	2,26E+00	0,00E+00	3,96E-01	6,66E+00	0,00E+00	5,90E-03	-2,26E+00
GWP - fossil	kg CO ₂ eq	2,26E+00	0,00E+00	3,96E-01	6,65E+00	0,00E+00	5,89E-03	-2,26E+00
GWP - biogenic	kg CO ₂ eq	6,30E-04	0,00E+00	1,29E-04	4,61E-03	0,00E+00	1,51E-05	-6,29E-04
GWP - luluc	kg CO ₂ eq	1,93E-04	0,00E+00	4,21E-05	2,21E-03	0,00E+00	9,39E-07	-1,93E-04
ODP	kg CFC11 eq	4,32E-08	0,00E+00	7,45E-09	1,32E-07	0,00E+00	2,20E-10	-4,32E-08
AP	molc H+ eq	1,95E-02	0,00E+00	3,41E-03	1,39E-02	0,00E+00	3,67E-05	-1,95E-02
EP- freshwater	kg P eq	8,98E-05	0,00E+00	1,72E-05	4,50E-04	0,00E+00	2,68E-07	-8,97E-05
EP -marine	kg N eq	9,04E-03	0,00E+00	1,58E-03	3,33E-03	0,00E+00	1,57E-05	-9,03E-03
EP - terrestrial	molc N eq	9,89E-02	0,00E+00	1,72E-02	3,59E-02	0,00E+00	1,71E-04	-9,88E-02
POCP	kg NMVOC eq	3,01E-02	0,00E+00	5,24E-03	2,30E-02	0,00E+00	6,92E-05	-3,00E-02
ADP-M&M ²	kg Sb-Eq	9,22E-07	0,00E+00	1,79E-07	2,16E-05	0,00E+00	7,39E-09	-9,21E-07
ADP-fossil ²	MJ	2,93E+01	0,00E+00	5,11E+00	9,35E+01	0,00E+00	1,47E-01	-2,93E+01
WDP ²	m ³	8,27E-02	0,00E+00	1,34E-02	3,88E-01	0,00E+00	5,07E-04	-8,26E-02

GWP-total: Global Warming Potential; **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 Exceedance; **EP-freshwater:** Eutrophication potential, fraction of nutrients reaching freshwater end compartment; See "additional Norwegian requirements" for indicator given as PO₄ eq. **EP-marine:** Eutrophication potential, fraction of nutrients reaching freshwater end compartment; **EP-terrestrial:** Eutrophication potential, Accumulated Exceedance; **POCP:** Formation potential of tropospheric ozone; **ADP-M&M:** Abiotic depletion potential for non-fossil resources (minerals and metals); **ADP-fossil:** Abiotic depletion potential for fossil resources; **WDP:** Water deprivation potential, deprivation weighted water consumption

Reading example: 9.0 E-03 = 9.0*10⁻³ = 9.0* $\frac{1}{10}$ * $\frac{1}{10}$ * $\frac{1}{10}$ =0.009 9.0 E+03 = 9.0*10³ = 9.0*10*10*10=9000

Blandet Sten

Indicator	Unit	A1-A3	A4	C1	C2	C3	C4	D
GWP - total	kg CO ₂ eq	2,26E+00	0,00E+00	3,96E-01	6,66E+00	0,00E+00	5,90E-03	-2,26E+00
GWP - fossil	kg CO ₂ eq	2,26E+00	0,00E+00	3,96E-01	6,65E+00	0,00E+00	5,89E-03	-2,26E+00
GWP - biogenic	kg CO ₂ eq	6,30E-04	0,00E+00	1,29E-04	4,61E-03	0,00E+00	1,51E-05	-6,29E-04
GWP - luluc	kg CO ₂ eq	1,93E-04	0,00E+00	4,21E-05	2,21E-03	0,00E+00	9,39E-07	-1,93E-04
ODP	kg CFC11 eq	4,32E-08	0,00E+00	7,45E-09	1,32E-07	0,00E+00	2,20E-10	-4,32E-08
AP	molc H+ eq	1,95E-02	0,00E+00	3,41E-03	1,39E-02	0,00E+00	3,67E-05	-1,95E-02
EP- freshwater	kg P eq	8,98E-05	0,00E+00	1,72E-05	4,50E-04	0,00E+00	2,68E-07	-8,97E-05
EP -marine	kg N eq	9,04E-03	0,00E+00	1,58E-03	3,33E-03	0,00E+00	1,57E-05	-9,03E-03
EP - terrestrial	molc N eq	9,89E-02	0,00E+00	1,72E-02	3,59E-02	0,00E+00	1,71E-04	-9,88E-02
POCP	kg NMVOC eq	3,01E-02	0,00E+00	5,24E-03	2,30E-02	0,00E+00	6,92E-05	-3,00E-02
ADP-M&M ²	kg Sb-Eq	9,22E-07	0,00E+00	1,79E-07	2,16E-05	0,00E+00	7,39E-09	-9,21E-07
ADP-fossil ²	MJ	2,93E+01	0,00E+00	5,11E+00	9,35E+01	0,00E+00	1,47E-01	-2,93E+01
WDP ²	m ³	8,27E-02	0,00E+00	1,34E-02	3,88E-01	0,00E+00	5,07E-04	-8,26E-02

Fylldsand

Indicator	Unit	A1-A3	A4	C1	C2	C3	C4	D
GWP - total	kg CO ₂ eq	1,86E+00	0,00E+00	3,96E-01	6,66E+00	0,00E+00	5,90E-03	-1,85E+00
GWP - fossil	kg CO ₂ eq	1,85E+00	0,00E+00	3,96E-01	6,65E+00	0,00E+00	5,89E-03	-1,85E+00
GWP - biogenic	kg CO ₂ eq	5,06E-04	0,00E+00	1,29E-04	4,61E-03	0,00E+00	1,51E-05	-5,05E-04
GWP - luluc	kg CO ₂ eq	1,60E-04	0,00E+00	4,21E-05	2,21E-03	0,00E+00	9,39E-07	-1,60E-04
ODP	kg CFC11 eq	3,55E-08	0,00E+00	7,45E-09	1,32E-07	0,00E+00	2,20E-10	-3,55E-08
AP	molc H+ eq	1,59E-02	0,00E+00	3,41E-03	1,39E-02	0,00E+00	3,67E-05	-1,59E-02
EP- freshwater	kg P eq	7,80E-05	0,00E+00	1,72E-05	4,50E-04	0,00E+00	2,68E-07	-7,79E-05
EP -marine	kg N eq	7,36E-03	0,00E+00	1,58E-03	3,33E-03	0,00E+00	1,57E-05	-7,36E-03
EP - terrestrial	molc N eq	8,06E-02	0,00E+00	1,72E-02	3,59E-02	0,00E+00	1,71E-04	-8,05E-02
POCP	kg NMVOC eq	2,45E-02	0,00E+00	5,24E-03	2,30E-02	0,00E+00	6,92E-05	-2,45E-02
ADP-M&M ²	kg Sb-Eq	7,96E-07	0,00E+00	1,79E-07	2,16E-05	0,00E+00	7,39E-09	-7,96E-07
ADP-fossil ²	MJ	2,41E+01	0,00E+00	5,11E+00	9,35E+01	0,00E+00	1,47E-01	-2,41E+01
WDP ²	m ³	7,32E-02	0,00E+00	1,34E-02	3,88E-01	0,00E+00	5,07E-04	-7,32E-02

GWP-total: Global Warming Potential; **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 Exceedance; **EP-freshwater:** Eutrophication potential, fraction of nutrients reaching freshwater end compartment; See "additional Norwegian requirements" for indicator given as PO₄ eq. **EP-marine:** Eutrophication potential, fraction of nutrients reaching freshwater end compartment; **EP-terrestrial:** Eutrophication potential, Accumulated Exceedance; **POCP:** Formation potential of tropospheric ozone; **ADP-M&M:** Abiotic depletion potential for non-fossil resources (minerals and metals); **ADP-fossil:** Abiotic depletion potential for fossil resources; **WDP:** Water deprivation potential, deprivation weighted water consumption

Reading example: $9.0 \text{ E-03} = 9.0 \cdot 10^{-3} = 9.0 \cdot \frac{1}{10} \cdot \frac{1}{10} \cdot \frac{1}{10} = 0.009$ $9.0 \text{ E+03} = 9.0 \cdot 10^3 = 9.0 \cdot 10 \cdot 10 \cdot 10 = 9000$

Harpet fylldsand

Indicator	Unit	A1-A3	A4	C1	C2	C3	C4	D
GWP - total	kg CO ₂ eq	2,26E+00	0,00E+00	3,96E-01	6,66E+00	0,00E+00	5,90E-03	-2,26E+00
GWP - fossil	kg CO ₂ eq	2,26E+00	0,00E+00	3,96E-01	6,65E+00	0,00E+00	5,89E-03	-2,26E+00
GWP - biogenic	kg CO ₂ eq	6,30E-04	0,00E+00	1,29E-04	4,61E-03	0,00E+00	1,51E-05	-6,29E-04
GWP - luluc	kg CO ₂ eq	1,93E-04	0,00E+00	4,21E-05	2,21E-03	0,00E+00	9,39E-07	-1,93E-04
ODP	kg CFC11 eq	4,32E-08	0,00E+00	7,45E-09	1,32E-07	0,00E+00	2,20E-10	-4,32E-08
AP	molc H+ eq	1,95E-02	0,00E+00	3,41E-03	1,39E-02	0,00E+00	3,67E-05	-1,95E-02
EP- freshwater	kg P eq	8,98E-05	0,00E+00	1,72E-05	4,50E-04	0,00E+00	2,68E-07	-8,97E-05
EP -marine	kg N eq	9,04E-03	0,00E+00	1,58E-03	3,33E-03	0,00E+00	1,57E-05	-9,03E-03
EP - terrestrial	molc N eq	9,89E-02	0,00E+00	1,72E-02	3,59E-02	0,00E+00	1,71E-04	-9,88E-02
POCP	kg NMVOC eq	3,01E-02	0,00E+00	5,24E-03	2,30E-02	0,00E+00	6,92E-05	-3,00E-02
ADP-M&M ²	kg Sb-Eq	9,22E-07	0,00E+00	1,79E-07	2,16E-05	0,00E+00	7,39E-09	-9,21E-07
ADP-fossil ²	MJ	2,93E+01	0,00E+00	5,11E+00	9,35E+01	0,00E+00	1,47E-01	-2,93E+01
WDP ²	m ³	8,27E-02	0,00E+00	1,34E-02	3,88E-01	0,00E+00	5,07E-04	-8,26E-02

GWP-total: Global Warming Potential; **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 Exceedance; **EP-freshwater:** Eutrophication potential, fraction of nutrients reaching freshwater end compartment; See "additional Norwegian requirements" for indicator given as PO₄ eq. **EP-marine:** Eutrophication potential, fraction of nutrients reaching freshwater end compartment; **EP-terrestrial:** Eutrophication potential, Accumulated Exceedance; **POCP:** Formation potential of tropospheric ozone; **ADP-M&M:** Abiotic depletion potential for non-fossil resources (minerals and metals); **ADP-fossil:** Abiotic depletion potential for fossil resources; **WDP:** Water deprivation potential, deprivation weighted water consumption

Reading example: $9.0 \text{ E-03} = 9.0 \cdot 10^{-3} = 9.0 \cdot \frac{1}{10} \cdot \frac{1}{10} = 0.009$ $9.0 \text{ E+03} = 9.0 \cdot 10^3 = 9.0 \cdot 10 \cdot 10 \cdot 10 = 9000$

Additional environmental impact indicators

Stabilitgrus 0-32 mm kv.II

Indicator	Unit	A1-A3	A4	C1	C2	C3	C4	D
PM	Disease incidence	7,03E-07	0,00E+00	8,30E-08	4,90E-07	0,00E+00	9,27E-10	-7,02E-07
IRP ¹	kBq U235 eq.	3,32E-02	0,00E+00	3,56E-03	1,21E-01	0,00E+00	1,25E-04	-3,32E-02
ETP-fw ²	CTUe	4,89E+00	0,00E+00	8,70E-01	2,55E+01	0,00E+00	1,50E-02	-4,88E+00
HTP-c ²	CTUh	1,11E-08	0,00E+00	2,24E-09	4,72E-08	0,00E+00	2,48E-11	-1,10E-08
HTP-nc ²	CTUh	5,22E-09	0,00E+00	6,66E-10	5,87E-08	0,00E+00	2,16E-11	-5,21E-09
SQP ²	Dimensionless	2,63E+00	0,00E+00	3,20E-01	5,65E+01	0,00E+00	2,97E-01	-2,63E+00

Bundsikring 0-8 mm kv.II

Indicator	Unit	A1-A3	A4	C1	C2	C3	C4	D
PM	Disease incidence	5,53E-07	0,00E+00	9,68E-08	4,90E-07	0,00E+00	9,27E-10	-5,52E-07
IRP ¹	kBq U235 eq.	2,65E-02	0,00E+00	4,15E-03	1,21E-01	0,00E+00	1,25E-04	-2,64E-02
ETP-fw ²	CTUe	3,81E+00	0,00E+00	1,02E+00	2,55E+01	0,00E+00	1,50E-02	-3,80E+00
HTP-c ²	CTUh	8,66E-09	0,00E+00	2,61E-09	4,72E-08	0,00E+00	2,48E-11	-8,65E-09
HTP-nc ²	CTUh	4,04E-09	0,00E+00	7,76E-10	5,87E-08	0,00E+00	2,16E-11	-4,04E-09
SQP ²	Dimensionless	2,04E+00	0,00E+00	3,73E-01	5,65E+01	0,00E+00	2,97E-01	-2,04E+00

PM: Particulate matter emissions; **IRP:** Ionising radiation, human health; **ETP-fw:** Ecotoxicity (freshwater); **ETP-c:** Human toxicity, cancer effects; **HTP-nc:** Human toxicity, non-cancer effects; **SQP:** Land use related impacts / soil quality

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.

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

Blandet Sten

Indicator	Unit	A1-A3	A4	C1	C2	C3	C4	D
PM	Disease incidence	5,53E-07	0,00E+00	9,68E-08	4,90E-07	0,00E+00	9,27E-10	-5,52E-07
IRP ¹	kBq U235 eq.	2,65E-02	0,00E+00	4,15E-03	1,21E-01	0,00E+00	1,25E-04	-2,64E-02
ETP-fw ²	CTUe	3,81E+00	0,00E+00	1,02E+00	2,55E+01	0,00E+00	1,50E-02	-3,80E+00
HTP-c ²	CTUh	8,66E-09	0,00E+00	2,61E-09	4,72E-08	0,00E+00	2,48E-11	-8,65E-09
HTP-nc ²	CTUh	4,04E-09	0,00E+00	7,76E-10	5,87E-08	0,00E+00	2,16E-11	-4,04E-09
SQP ²	Dimensionless	2,04E+00	0,00E+00	3,73E-01	5,65E+01	0,00E+00	2,97E-01	-2,04E+00

Fyldsand

Indicator	Unit	A1-A3	A4	C1	C2	C3	C4	D
PM	Disease incidence	4,50E-07	0,00E+00	9,68E-08	4,90E-07	0,00E+00	9,27E-10	-4,50E-07
IRP ¹	kBq U235 eq.	2,31E-02	0,00E+00	4,15E-03	1,21E-01	0,00E+00	1,25E-04	-2,31E-02
ETP-fw ²	CTUe	3,13E+00	0,00E+00	1,02E+00	2,55E+01	0,00E+00	1,50E-02	-3,13E+00
HTP-c ²	CTUh	7,07E-09	0,00E+00	2,61E-09	4,72E-08	0,00E+00	2,48E-11	-7,07E-09
HTP-nc ²	CTUh	3,39E-09	0,00E+00	7,76E-10	5,87E-08	0,00E+00	2,16E-11	-3,39E-09
SQP ²	Dimensionless	1,69E+00	0,00E+00	3,73E-01	5,65E+01	0,00E+00	2,97E-01	-1,69E+00

Harpet fyldsand

Indicator	Unit	A1-A3	A4	C1	C2	C3	C4	D
PM	Disease incidence	5,53E-07	0,00E+00	9,68E-08	4,90E-07	0,00E+00	9,27E-10	-5,52E-07
IRP ¹	kBq U235 eq.	2,65E-02	0,00E+00	4,15E-03	1,21E-01	0,00E+00	1,25E-04	-2,64E-02
ETP-fw ²	CTUe	3,81E+00	0,00E+00	1,02E+00	2,55E+01	0,00E+00	1,50E-02	-3,80E+00
HTP-c ²	CTUh	8,66E-09	0,00E+00	2,61E-09	4,72E-08	0,00E+00	2,48E-11	-8,65E-09
HTP-nc ²	CTUh	4,04E-09	0,00E+00	7,76E-10	5,87E-08	0,00E+00	2,16E-11	-4,04E-09
SQP ²	Dimensionless	2,04E+00	0,00E+00	3,73E-01	5,65E+01	0,00E+00	2,97E-01	-2,04E+00

PM: Particulate matter emissions; **IRP:** Ionising radiation, human health; **ETP-fw:** Ecotoxicity (freshwater); **ETP-c:** Human toxicity, cancer effects; **HTP-nc:** Human toxicity, non-cancer effects; **SQP:** Land use related impacts / soil quality

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.

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

Resource use

Stabiltgrus 0-32 mm kv.II

Parameter	Unit	A1-A3	A4	C1	C2	C3	C4	D
PERE	MJ	3,50E-01	0,00E+00	4,35E-02	1,56E+00	0,00E+00	2,82E-03	-3,50E-01
PERM	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PERT	MJ	3,50E-01	0,00E+00	4,35E-02	1,56E+00	0,00E+00	2,82E-03	-3,50E-01
PENRE	MJ	3,77E+01	0,00E+00	4,38E+00	9,35E+01	0,00E+00	1,47E-01	-3,77E+01
PENRM	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PENRT	MJ	3,77E+01	0,00E+00	4,38E+00	9,35E+01	0,00E+00	1,47E-01	-3,77E+01
SM	kg	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
NRSF	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
FW	m ³	2,68E-03	0,00E+00	3,84E-04	1,41E-02	0,00E+00	1,56E-04	-2,67E-03

Bundsikring 0-8 mm kv.II

Parameter	Unit	A1-A3	A4	C1	C2	C3	C4	D
PERE	MJ	2,74E-01	0,00E+00	5,08E-02	1,56E+00	0,00E+00	2,82E-03	-2,74E-01
PERM	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PERT	MJ	2,74E-01	0,00E+00	5,08E-02	1,56E+00	0,00E+00	2,82E-03	-2,74E-01
PENRE	MJ	2,93E+01	0,00E+00	5,11E+00	9,35E+01	0,00E+00	1,47E-01	-2,93E+01
PENRM	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PENRT	MJ	2,93E+01	0,00E+00	5,11E+00	9,35E+01	0,00E+00	1,47E-01	-2,93E+01
SM	kg	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
NRSF	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
FW	m ³	2,08E-03	0,00E+00	4,48E-04	1,41E-02	0,00E+00	1,56E-04	-2,08E-03

Blandet Sten

Parameter	Unit	A1-A3	A4	C1	C2	C3	C4	D
PERE	MJ	2,74E-01	0,00E+00	5,08E-02	1,56E+00	0,00E+00	2,82E-03	-2,74E-01
PERM	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PERT	MJ	2,74E-01	0,00E+00	5,08E-02	1,56E+00	0,00E+00	2,82E-03	-2,74E-01
PENRE	MJ	2,93E+01	0,00E+00	5,11E+00	9,35E+01	0,00E+00	1,47E-01	-2,93E+01
PENRM	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PENRT	MJ	2,93E+01	0,00E+00	5,11E+00	9,35E+01	0,00E+00	1,47E-01	-2,93E+01
SM	kg	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
NRSF	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
FW	m ³	2,08E-03	0,00E+00	4,48E-04	1,41E-02	0,00E+00	1,56E-04	-2,08E-03

PERE Renewable primary energy resources used as energy carrier; **PERM** Renewable primary energy resources used as raw materials; **PERT** Total use of renewable primary energy resources; **PENRE** Nonrenewable primary energy resources used as energy carrier; **PENRM** Nonrenewable primary energy resources used as 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.

Fyldsand

Parameter	Unit	A1-A3	A4	C1	C2	C3	C4	D
PERE	MJ	2,36E-01	0,00E+00	5,08E-02	1,56E+00	0,00E+00	2,82E-03	-2,36E-01
PERM	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PERT	MJ	2,36E-01	0,00E+00	5,08E-02	1,56E+00	0,00E+00	2,82E-03	-2,36E-01
PENRE	MJ	2,41E+01	0,00E+00	5,11E+00	9,35E+01	0,00E+00	1,47E-01	-2,41E+01
PENRM	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PENRT	MJ	2,41E+01	0,00E+00	5,11E+00	9,35E+01	0,00E+00	1,47E-01	-2,41E+01
SM	kg	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
NRSF	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
FW	m³	1,74E-03	0,00E+00	4,48E-04	1,41E-02	0,00E+00	1,56E-04	-1,74E-03

Harpet fyldsand

Parameter	Unit	A1-A3	A4	C1	C2	C3	C4	D
PERE	MJ	2,74E-01	0,00E+00	5,08E-02	1,56E+00	0,00E+00	2,82E-03	-2,74E-01
PERM	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PERT	MJ	2,74E-01	0,00E+00	5,08E-02	1,56E+00	0,00E+00	2,82E-03	-2,74E-01
PENRE	MJ	2,93E+01	0,00E+00	5,11E+00	9,35E+01	0,00E+00	1,47E-01	-2,93E+01
PENRM	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PENRT	MJ	2,93E+01	0,00E+00	5,11E+00	9,35E+01	0,00E+00	1,47E-01	-2,93E+01
SM	kg	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
NRSF	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
FW	m³	2,08E-03	0,00E+00	4,48E-04	1,41E-02	0,00E+00	1,56E-04	-2,08E-03

PERE Renewable primary energy resources used as energy carrier; **PERM** Renewable primary energy resources used as raw materials; **PERT** Total use of renewable primary energy resources; **PENRE** Nonrenewable primary energy resources used as energy carrier; **PENRM** Nonrenewable primary energy resources used as 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.

End of life – Waste

Stabiltgrus 0-32 mm kv.II

Parameter	Unit	A1-A3	A4	C1	C2	C3	C4	D
HWD	kg	3,51E-04	0,00E+00	4,23E-05	2,34E-03	0,00E+00	2,10E-06	-3,51E-04
NHWD	kg	2,70E-02	0,00E+00	3,50E-03	4,52E+00	0,00E+00	9,99E-01	-2,70E-02
RWD	kg	8,26E-06	0,00E+00	8,86E-07	3,01E-05	0,00E+00	2,95E-08	-8,25E-06

Bundsikring 0-8 mm kv.II

Parameter	Unit	A1-A3	A4	C1	C2	C3	C4	D
HWD	kg	2,70E-04	0,00E+00	4,93E-05	2,34E-03	0,00E+00	2,10E-06	-2,70E-04
NHWD	kg	2,10E-02	0,00E+00	4,08E-03	4,52E+00	0,00E+00	9,99E-01	-2,10E-02
RWD	kg	6,56E-06	0,00E+00	1,03E-06	3,01E-05	0,00E+00	2,95E-08	-6,55E-06

HWD Hazardous waste disposed; **NHWD** Non-hazardous waste disposed; **RWD** Radioactive waste disposed.

Blandet Sten

Parameter	Unit	A1-A3	A4	C1	C2	C3	C4	D
HWD	kg	2,70E-04	0,00E+00	4,93E-05	2,34E-03	0,00E+00	2,10E-06	-2,70E-04
NHWD	kg	2,10E-02	0,00E+00	4,08E-03	4,52E+00	0,00E+00	9,99E-01	-2,10E-02
RWD	kg	6,56E-06	0,00E+00	1,03E-06	3,01E-05	0,00E+00	2,95E-08	-6,55E-06

Fyldsand

Parameter	Unit	A1-A3	A4	C1	C2	C3	C4	D
HWD	kg	2,23E-04	0,00E+00	4,93E-05	2,34E-03	0,00E+00	2,10E-06	-2,23E-04
NHWD	kg	1,76E-02	0,00E+00	4,08E-03	4,52E+00	0,00E+00	9,99E-01	-1,76E-02
RWD	kg	5,73E-06	0,00E+00	1,03E-06	3,01E-05	0,00E+00	2,95E-08	-5,73E-06

Harpet fyldsand

Parameter	Unit	A1-A3	A4	C1	C2	C3	C4	D
HWD	kg	2,70E-04	0,00E+00	4,93E-05	2,34E-03	0,00E+00	2,10E-06	-2,70E-04
NHWD	kg	2,10E-02	0,00E+00	4,08E-03	4,52E+00	0,00E+00	9,99E-01	-2,10E-02
RWD	kg	6,56E-06	0,00E+00	1,03E-06	3,01E-05	0,00E+00	2,95E-08	-6,55E-06

HWD Hazardous waste disposed; **NHWD** Non-hazardous waste disposed; **RWD** Radioactive waste disposed.

End of life – output flow

Stabiltgrus 0-32 mm kv.II

Parameter	Unit	A1-A3	A4	C1	C2	C3	C4	D
CRU	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	9,99E+02	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
MER	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
EEE	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
EET	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00

Bundsikring 0-8 mm kv.II

Parameter	Unit	A1-A3	A4	C1	C2	C3	C4	D
CRU	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	9,99E+02	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
MER	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
EEE	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
EET	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00

Blandet Sten

Parameter	Unit	A1-A3	A4	C1	C2	C3	C4	D
CRU	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	9,99E+02	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
MER	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
EEE	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
EET	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00

CRU Components for reuse; **MFR** Materials for recycling; **MER** Materials for energy recovery; **EEE** Exported electric energy; **EET** Exported thermal energy.

Fyldsand

Parameter	Unit	A1-A3	A4	C1	C2	C3	C4	D
CRU	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	9,99E+02	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
MER	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
EEE	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
EET	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00

Harpet fyldsand

Parameter	Unit	A1-A3	A4	C1	C2	C3	C4	D
CRU	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	9,99E+02	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
MER	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
EEE	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
EET	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00

CRU Components for reuse; **MFR** Materials for recycling; **MER** Materials for energy recovery; **EEE** Exported electric energy; **EET** Exported thermal energy.

Information describing the biogenic carbon content at the factory gate

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

Note: 1 kg biogenic carbon is equivalent to 44/12 (approx. 3.67) kg CO₂

The content of biogenic carbon is identical for all products.

Additional requirements

Transparent reporting of energy

The EPD provides in the main result tables environmental impact categories based on a market based approach. The information below is provided so EPD users are able to understand the effect of these methodological choices.

The table below shows calculation of GWP-total for energy resources used in the manufacturing process (A3) for each approach.

Energy source	Data source	Amount*	Unit	GWP _{total} [kg CO ₂ - eq/kWh]	SUM [kg CO ₂ - eq]
Market based approach					
Residual mix electricity, foreground	2022	N/A	kWh	0,557	N/A

*The amount of electricity used in the manufacturing stage is not disclosed as it is proprietary information

The residual mix is calculated using the following methodology: The electricity of the foreground data in life cycle product stage (A3) is modelled based on the Danish residual electricity mix. The foreground data for electricity is modeled using the Ecoinvent 3.10 database process: *"Electricity, high voltage {DK}/ electricity, high voltage, residual mix / Cut-off, U"*. This process is chosen because Møsvrå gravel pit is in Denmark and does not have electricity certificates specifying the use of a particular type of electricity source. Therefore, a generic Danish electricity residual mix has been selected. The process is valid for the year 2022, which is representative of the reference year for this report. The Danish residual electricity mix comprise of a mixture of electricity from biomass, solar, wind, hydro, nuclear, hard coal, lignite, oil, gas, and unspecified energy. [Ref: Association of Issuing Bodies, 2023]

Additional environmental impact indicators required for construction products

In order to increase the transparency of biogenic carbon contribution to climate impact, the indicator GWP-IOBC is required as it declares climate impacts calculated according to the principle of instantaneous oxidation. GWP-IOBC is also referred to as GWP-GHG in context to Swedish public procurement legislation.

Stabilitgrus 0-32 mm kv.II,

Parameter	Unit	A1-A3	A4	C1	C2	C3	C4	D
GWP-IOBC	kg CO ₂ -eq.	2.87E+00	0.00E+00	3.40E-01	6.65E+00	0.00E+00	5.89E-03	-2.87E+00

Bundsikring 0-8 mm kv.II

Parameter	Unit	A1-A3	A4	C1	C2	C3	C4	D
GWP-IOBC	kg CO ₂ -eq.	2,26E+00	0,00E+00	3,96E-01	6,65E+00	0,00E+00	5,89E-03	-2,26E+00

Blandet Sten

Parameter	Unit	A1-A3	A4	C1	C2	C3	C4	D
GWP-IOBC	kg CO ₂ -eq.	2,26E+00	0,00E+00	3,96E-01	6,65E+00	0,00E+00	5,89E-03	-2,26E+00

Fylldsand

Parameter	Unit	A1-A3	A4	C1	C2	C3	C4	D
GWP-IOBC	kg CO ₂ -eq.	1,86E+00	0,00E+00	3,96E-01	6,65E+00	0,00E+00	5,89E-03	-1,85E+00

Harpet fylldsand

Parameter	Unit	A1-A3	A4	C1	C2	C3	C4	D
GWP-IOBC	kg CO ₂ -eq.	2,26E+00	0,00E+00	3,96E-01	6,65E+00	0,00E+00	5,89E-03	-2,26E+00

***GWP-IOBC** Global warming potential calculated according to the principle of instantaneous oxidation.*

Hazardous substances

The products from Nymølle Stenindustrier A/S does not contain substances listed on the "Candidate List of Substances of Very High Concern for authorisation" given by the REACH.

Indoor environment

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

Carbon footprint

While a carbon footprint analysis has not been conducted for the product separately, the results section does include an evaluation of Global Warming Potential (GWP) with such an analysis. The GWP total results presented in this EPD document represents the carbon footprint of the product studied.

Bibliography

ISO 14025:2010	Environmental labels and declarations - Type III environmental declarations - Principles and procedures
ISO 14044:2006	Environmental management - Life cycle assessment - Requirements and guidelines
ISO 14040	Environmental management – Life cycle assessment – Principles and framework
EN 15804:2012+A2:2019	Sustainability of construction works - Environmental product declaration - Core rules for the product category of construction products
EN 15942:2011	Sustainability of construction works – Environmental product declarations – Communication format business-to-business
PCR 2019:14	EPD International – PCR 2019:14 – Construction products v1.3.4
Association of Issuing Bodies	European Residual Mixes 2022 (2023)
European Commission	EU Construction and Demolition Waste Management Protocol (2024)

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