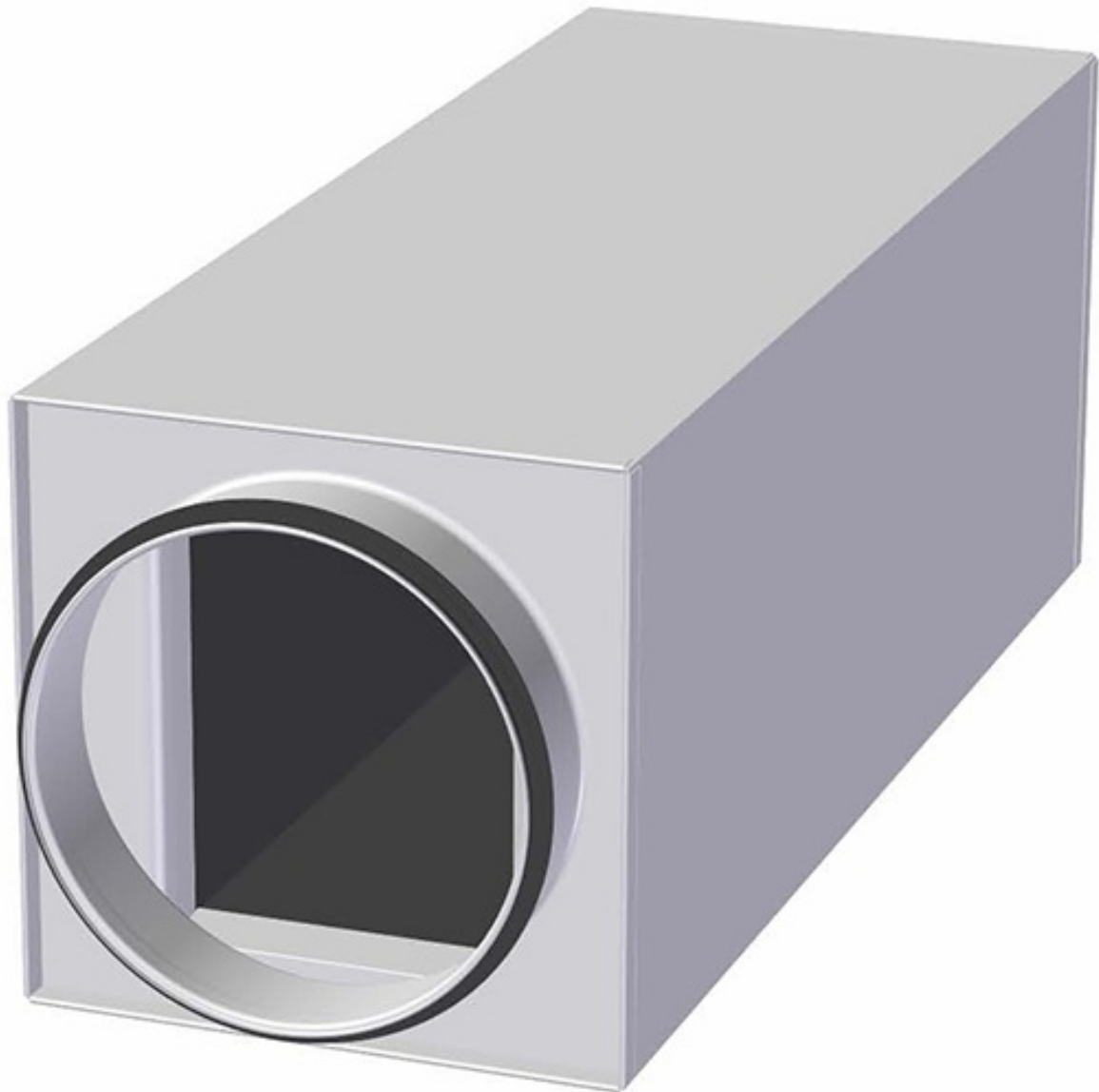


Environmental product declaration

In accordance with 14025 and EN15804+A2

Lydfelle LKR - 160-600



The Norwegian EPD Foundation

Owner of the declaration:
TROX Auranor Norge AS

Product:
Lydfelle LKR - 160-600

Declared unit:
1 pcs

This declaration is based on Product Category Rules:
CEN Standard EN 15804:2012+A2:2019 serves as core PCR
NPCR 030:2021 Part B for ventilation components

EPD Software:
LCA.no EPD generator

Program operator:
The Norwegian EPD Foundation

Declaration number:
NEPD-4039-3073-EN

Registration number:
NEPD-4039-3073-EN

Issue date: 20.12.2022

Valid to: 20.12.2027

System ID:
56181

General information

Product

Lydfelle LKR - 160-600

Program operator:

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

Declaration number:

NEPD-4039-3073-EN

This declaration is based on Product Category Rules:

CEN Standard EN 15804:2012+A2:2019 serves as core PCR
NPCR 030:2021 Part B for ventilation components

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 information, life cycle assessment data and evidences.

Declared unit:

1 pcs Lydfelle LKR - 160-600

Declared unit with option:

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

Functional unit:

LKR is a square sound attenuator with circular end spigots. LKR is space-saving due to its low height.

General information on verification of EPD from EPD tools:

Independent verification of data, other environmental information and the declaration according to ISO 14025:2010, § 8.1.3 and § 8.1.4. Individual third party verification of each EPD is not required when the EPD tool is i) integrated into the company's environmental management system, ii) the procedures for use of the EPD tool are approved by EPD Norway, and iii) the process is reviewed annually. See Appendix G of EPD-Norway's General Programme Instructions for further information on EPD tools.

Verification of EPD tool:

Independent third party verification of the EPD tool, background data and test-EPD in accordance with EPD Norway's procedures and guidelines for verification and approval of EPD tools.

Third party verifier:

Alexander Borg, Asplan Viak
(no signature required)

Owner of the declaration:

TROX Auranor Norge AS
Contact person: Magnus Myrvold
Phone: +47 61 31 35 00
e-mail: firmapost@auranor.no

Manufacturer:

TROX Auranor Norge AS

Place of production:

TROX Auranor Norge AS
Auranorvegen 6, 2770 Jaren
Norway

Management system:

Miljøfyrtårn

Organisation no:

976 699 963

Issue date: 20.12.2022

Valid to: 20.12.2027

Year of study:

2021

Comparability:

EPD of construction products may not be comparable if they not comply with EN 15804 and seen in a building context.

Development and verification of EPD:

The declaration is created using EPD tool lca.tools ver EPD2022.03, developed by LCA.no. The EPD tool is integrated in the company's management system, and has been approved by EPD Norway.

Developer of EPD:

Magnus Myrvold

Reviewer of company-specific input data and EPD:

Svein Hvalstad

Approved:

Håkon Hauan
Managing Director of EPD-Norway

Product

Product description:

LKR is a square sound attenuator with circular end spigots. LKR is space-saving due to its low height.

For more information:

<https://www.trox.no/en/sound-attenuators/lkr-6dc7da4b4ba1944b>

Product specification

This EPD is applicable for LKR with the dimension 160-600, which is the most commonly used dimension for this product.

If you need an EPD for another dimension/variant of this product, please contact us via email: office-no@troxgroup.com

For more information:

<https://www.trox.no/en/sound-attenuators/lkr-6dc7da4b4ba1944b>

| Materials | kg | % |
|-------------------------|-------------|-------|
| Adhesive and sealant | 0,03 | 0,66 |
| Insulation - glass wool | 0,50 | 10,96 |
| Metal - Steel | 4,00 | 87,68 |
| Rubber, synthetic | 0,03 | 0,70 |
| Total | 4,56 | |

| Packaging | kg | % |
|------------------------------|-------------|-------|
| Packaging - Pallet | 0,41 | 98,80 |
| Packaging - Plastic | 0,01 | 1,20 |
| Total incl. packaging | 4,98 | |

Technical data:

In order to ensure the optimum choice of LKR, please use the "Attenuator Selection" computer program available for download from our website: www.trox.no

For more information:

<https://www.trox.no/en/sound-attenuators/lkr-6dc7da4b4ba1944b>

Market:

Norway

Reference service life, product

30 years

Reference service life, building or construction works

60 years

LCA: Calculation rules

Declared unit:

1 pcs Lydfelle LKR - 160-600

Cut-off criteria:

All major raw materials and all the essential energy is included. The production processes for raw materials and energy flows with very small amounts (less than 1%) are not included. These cut-off criteria do not apply for hazardous materials and substances.

Allocation:

The allocation is made in accordance with the provisions of EN 15804. Incoming energy and water and waste production in-house is allocated equally among all products through mass allocation. Effects of primary production of recycled materials is allocated to the main product in which the material was used. The recycling process and transportation of the material is allocated to this analysis.

Data quality:

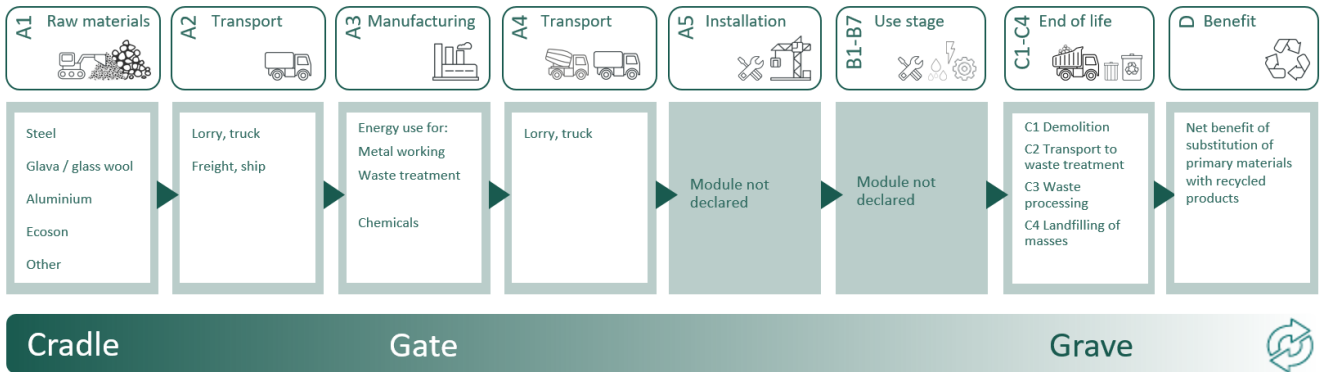
Specific data for the product composition are provided by the manufacturer. The data represent the production of the declared product and were collected for EPD development in the year of study. Background data is based on EPDs according to EN 15804 and different LCA databases. The data quality of the raw materials in A1 is presented in the table below.

| Materials | Source | Data quality | Year |
|-------------------------|---------------|--------------|------|
| Adhesive and sealant | ecoinvent 3.6 | Database | 2019 |
| Insulation - glass wool | ecoinvent 3.6 | Database | 2019 |
| Metal - Steel | ecoinvent 3.6 | Database | 2019 |
| Packaging - Pallet | ecoinvent 3.6 | Database | 2019 |
| Packaging - Plastic | ecoinvent 3.6 | Database | 2019 |
| Rubber, synthetic | ecoinvent 3.6 | Database | 2019 |

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

| Product stage | | | Construction installation stage | Use stage | | | | | | | | End of life stage | | | | Beyond the system boundaries |
|---------------|-----------|---------------|---------------------------------|-----------|-----|-------------|--------|-------------|---------------|------------------------|-----------------------|----------------------------|-----------|------------------|----------|------------------------------|
| 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-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 |

System boundary:



Additional technical information:

TROX Auranor Norge AS has documentation proving that all electricity used is 100% renewable.














LCA: Scenarios and additional technical information

The following information describe the scenarios in the different modules of the EPD.

| Transport from production place to user (A4) | Capacity utilisation (incl. return) % | Distance (km) | Fuel/Energy Consumption | Unit | Value (Liter/tonne) |
|---|---------------------------------------|---------------|-------------------------|-------|---------------------|
| Truck, 16-32 tonnes, EURO 6 (km) | 36,7 % | 300 | 0,043 | l/tkm | 12,90 |
| De-construction demolition (C1) | | | | | |
| | Unit | Value | | | |
| Demolition of building per kg of ventilation product (kg) - C1 | kg/DU | 4,60 | | | |
| Transport to waste processing (C2) | | | | | |
| | Capacity utilisation (incl. return) % | Distance (km) | Fuel/Energy Consumption | Unit | Value (Liter/tonne) |
| Truck, 16-32 tonnes, EURO 6 (km) | 36,7 % | 85 | 0,043 | l/tkm | 3,66 |
| Waste processing (C3) | | | | | |
| | Unit | Value | | | |
| Materials to recycling (kg) | kg | 3,60 | | | |
| Waste treatment per kg Hazardous waste, incineration (kg) | kg | 0,02 | | | |
| Waste treatment per kg Rubber, municipal incineration with fly ash extraction (kg) | kg | 0,03 | | | |
| Disposal (C4) | | | | | |
| | Unit | Value | | | |
| Landfilling of ashes from incineration of Rubber, municipal incineration with fly ash extraction (kg) | kg | 0,00 | | | |
| Landfilling of ashes from incineration per kg Hazardous waste, from incineration (kg) | kg | 0,00 | | | |
| Waste, hazardous waste, to landfill (kg) | kg | 0,02 | | | |
| Waste, mineral wool, to landfil (kg) | kg | 0,50 | | | |
| Waste, scrap steel, to landfill (kg) | kg | 0,40 | | | |
| Benefits and loads beyond the system boundaries (D) | | | | | |
| | Unit | Value | | | |
| Substitution of electricity, in Norway (MJ) | MJ | 0,04 | | | |
| Substitution of primary steel with net scrap (kg) | kg | 2,54 | | | |
| Substitution of thermal energy, district heating, in Norway (MJ) | MJ | 0,66 | | | |

LCA: Results

The LCA results are presented below for the declared unit defined on page 2 of the EPD document.

| Environmental impact | | | | | | | | | |
|--|------------------------|-----------|----------|----------|----------|----------|----------|-----------|--|
| Indicator | Unit | A1-A3 | A4 | C1 | C2 | C3 | C4 | D | |
|  GWP-total | kg CO ₂ -eq | 2,06E+01 | 2,44E-01 | 6,07E-03 | 6,92E-02 | 1,34E-01 | 8,99E-03 | -2,80E+00 | |
|  GWP-fossil | kg CO ₂ -eq | 2,08E+01 | 2,44E-01 | 6,07E-03 | 6,91E-02 | 1,34E-01 | 8,95E-03 | -2,80E+00 | |
|  GWP-biogenic | kg CO ₂ -eq | -2,28E-01 | 1,01E-04 | 1,14E-06 | 2,86E-05 | 8,60E-05 | 6,61E-06 | -1,55E-03 | |
|  GWP-luluc | kg CO ₂ -eq | 2,70E-02 | 8,68E-05 | 4,78E-07 | 2,46E-05 | 8,79E-06 | 2,95E-05 | -1,38E-03 | |
|  ODP | kg CFC11 -eq | 1,82E-06 | 5,52E-08 | 1,31E-09 | 1,57E-08 | 3,99E-09 | 2,16E-09 | -2,80E-04 | |
|  AP | mol H+ -eq | 2,15E-01 | 7,01E-04 | 6,35E-05 | 1,99E-04 | 6,26E-05 | 5,96E-05 | -1,39E-02 | |
|  EP-FreshWater | kg P -eq | 1,28E-03 | 1,95E-06 | 2,21E-08 | 5,52E-07 | 8,16E-07 | 1,99E-07 | -1,72E-04 | |
|  EP-Marine | kg N -eq | 2,43E-02 | 1,39E-04 | 2,80E-05 | 3,93E-05 | 1,54E-05 | 1,87E-05 | -2,88E-03 | |
|  EP-Terrestrial | mol N -eq | 7,16E-01 | 1,55E-03 | 3,07E-04 | 4,40E-04 | 1,72E-04 | 2,05E-04 | -2,95E-02 | |
|  POCP | kg NMVOC -eq | 8,41E-02 | 5,94E-04 | 8,45E-05 | 1,68E-04 | 4,62E-05 | 6,57E-05 | -1,40E-02 | |
|  ADP-minerals&metals ¹ | kg Sb -eq | 1,77E-02 | 6,74E-06 | 9,31E-09 | 1,91E-06 | 1,26E-07 | 6,05E-08 | -4,82E-05 | |
|  ADP-fossil ¹ | MJ | 2,73E+02 | 3,69E+00 | 8,35E-02 | 1,04E+00 | 1,49E-01 | 1,71E-01 | -2,36E+01 | |
|  WDP ¹ | m ³ | 2,16E+03 | 3,57E+00 | 1,77E-02 | 1,01E+00 | 6,01E-01 | 3,30E-01 | 1,44E+02 | |

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 change; ODP Ozone Depletion; AP Acidification; EP freshwater Eutrophication aquatic freshwater; EP marine Eutrophication aquatic marine; EP terrestrial Eutrophication terrestrial ;POCP Photochemical zone formation; ADPE Abiotic Depletion Potential minerals and metals; ADPf Abiotic Depletion Potential fossil fuels;







"Reading example: 9,0 E-03 = 9,0*10⁻³ = 0,009"

*INA Indicator Not Assessed

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

Remarks to environmental impacts

Additional environmental impact indicators






| Indicator | | Unit | A1-A3 | A4 | C1 | C2 | C3 | C4 | D |
|---|---------------------|-------------------|----------|----------|----------|----------|----------|----------|-----------|
|  | PM | Disease incidence | 2,12E-06 | 1,49E-08 | 1,68E-09 | 4,23E-09 | 8,13E-10 | 1,14E-09 | -2,34E-07 |
|  | IRP ² | kgBq U235 -eq | 1,18E+00 | 1,61E-02 | 3,58E-04 | 4,57E-03 | 6,65E-04 | 6,32E-04 | 9,68E-03 |
|  | ETP-fw ¹ | CTUe | 7,94E+02 | 2,73E+00 | 4,56E-02 | 7,75E-01 | 8,54E-01 | 1,81E-01 | -1,56E+02 |
|  | HTP-c ¹ | CTUh | 1,20E-07 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 3,30E-11 | 1,70E-11 | -1,34E-08 |
|  | HTP-nc ¹ | CTUh | 1,10E-06 | 2,99E-09 | 4,10E-11 | 8,46E-10 | 2,60E-10 | 1,88E-10 | 2,92E-07 |
|  | SQP ¹ | dimensionless | 1,69E+02 | 2,58E+00 | 1,06E-02 | 7,31E-01 | 5,71E-02 | 4,61E-01 | -2,13E+00 |

PM Particulate Matter emissions; IRP Ionizing radiation – human health; ETP-fw Eco toxicity – freshwater; HTP-c Human toxicity – cancer effects; HTP-nc Human toxicity – non cancer effects; SQP Soil Quality (dimensionless)

"Reading example: 9,0 E-03 = 9,0*10⁻³ = 0,009"

*INA Indicator Not Assessed




1. The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator
2. 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.

| Resource use | | | | | | | | | |
|---|----------------|-----------|----------|----------|----------|-----------|----------|-----------|--|
| Indicator | Unit | A1-A3 | A4 | C1 | C2 | C3 | C4 | D | |
|  PERE | MJ | 5,29E+01 | 5,28E-02 | 4,52E-04 | 1,50E-02 | 2,59E-02 | 1,46E-02 | -2,25E+00 | |
|  PERM | MJ | 5,69E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | |
|  PERT | MJ | 5,86E+01 | 5,28E-02 | 4,52E-04 | 1,50E-02 | 2,59E-02 | 1,46E-02 | -2,25E+00 | |
|  PENRE | MJ | 2,71E+02 | 3,69E+00 | 8,35E-02 | 1,04E+00 | 1,49E-01 | 1,71E-01 | -2,36E+01 | |
|  PENRM | MJ | 1,35E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | |
|  PENRT | MJ | 2,73E+02 | 3,69E+00 | 8,35E-02 | 1,04E+00 | 1,49E-01 | 1,71E-01 | -2,38E+01 | |
|  SM | kg | 2,74E+00 | 0,00E+00 | 4,10E-05 | 0,00E+00 | 6,52E-05 | 3,60E-04 | 1,32E+00 | |
|  RSF | MJ | 1,25E+00 | 1,89E-03 | 1,11E-05 | 5,35E-04 | 5,72E-04 | 7,27E-05 | 1,01E-01 | |
|  NRSF | MJ | -9,13E+00 | 6,75E-03 | 1,63E-04 | 1,91E-03 | -1,19E-04 | 3,16E-03 | 2,92E+00 | |
|  FW | m ³ | 3,30E-01 | 3,94E-04 | 4,30E-06 | 1,12E-04 | 2,30E-04 | 1,75E-04 | -6,29E-03 | |

PERE Use of renewable primary energy excluding renewable primary energy resources used as raw materials; PERM Use of renewable primary energy resources used as raw materials; PERT Total use of renewable primary energy resources; PENRE Use of non renewable primary energy excluding non-renewable primary 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

*Reading example: 9,0 E-03 = 9,0*10⁻³ = 0,009"






*INA Indicator Not Assessed

| End of life - Waste | | | | | | | | | |
|---|------|------|----------|----------|----------|----------|----------|----------|-----------|
| Indicator | | Unit | A1-A3 | A4 | C1 | C2 | C3 | C4 | D |
|  | HWD | kg | 1,72E-01 | 1,90E-04 | 2,46E-06 | 5,39E-05 | 3,47E-05 | 1,62E-02 | -1,45E-02 |
|  | NHWD | kg | 6,73E+00 | 1,79E-01 | 9,88E-05 | 5,08E-02 | 3,94E-03 | 9,05E-01 | -1,14E+00 |
|  | RWD | kg | 1,09E-03 | 2,51E-05 | 5,80E-07 | 7,12E-06 | 8,26E-07 | 9,62E-07 | 7,42E-06 |

HWD = Hazardous waste disposed; NHWD = Non-hazardous waste disposed; RWD = Radioactive waste disposed;

"Reading example: 9,0 E-03 = 9,0*10⁻³ = 0,009"

*INA Indicator Not Assessed

| End of life - Output flow | | | | | | | | | |
|---|-----|------|----------|----------|----------|----------|----------|----------|-----------|
| Indicator | | Unit | A1-A3 | A4 | C1 | C2 | C3 | C4 | D |
|  | CRU | kg | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
|  | MFR | kg | 1,46E+00 | 0,00E+00 | 4,03E-05 | 0,00E+00 | 3,60E+00 | 3,54E-04 | 1,32E+00 |
|  | MER | kg | 8,75E-04 | 0,00E+00 | 1,25E-07 | 0,00E+00 | 5,01E-06 | 8,49E-07 | 8,41E-04 |
|  | EEE | MJ | 7,23E-03 | 0,00E+00 | 4,28E-07 | 0,00E+00 | 4,38E-02 | 8,23E-06 | -9,60E-04 |
|  | EET | MJ | 1,09E-01 | 0,00E+00 | 6,47E-06 | 0,00E+00 | 6,63E-01 | 1,24E-04 | -1,45E-02 |

CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported electrical energy; EET = Exported energy Thermal

"Reading example: 9,0 E-03 = 9,0*10⁻³ = 0,009"

*INA Indicator Not Assessed

| Biogenic Carbon Content | | |
|---|------|---------------------|
| Indicator | Unit | At the factory gate |
| Biogenic carbon content in product | kg C | 0,00E+00 |
| Biogenic carbon content in accompanying packaging | kg C | 1,70E-01 |

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

Additional Norwegian requirements

Greenhouse gas emissions from the use of electricity in the manufacturing phase

National production mix from import, low voltage (production of transmission lines, in addition to direct emissions and losses in grid) of applied electricity for the manufacturing process (A3).

| Electricity mix | Data source | Amount | Unit |
|---------------------------|---------------|--------|---------------------------|
| Electricity, Norway (kWh) | ecoinvent 3.6 | 24,33 | g CO ₂ -eq/kWh |

Dangerous substances

The product contains no substances given by the REACH Candidate list or the Norwegian priority list.

Indoor environment







Additional Environmental Information

| Environmental impact indicators EN 15804+A1 and NPCR Part A v2.0 | | | | | | | | |
|--|--------------------------------------|----------|----------|----------|----------|----------|----------|-----------|
| Indicator | Unit | A1-A3 | A4 | C1 | C2 | C3 | C4 | D |
| GWP | kg CO ₂ -eq | 2,02E+01 | 2,42E-01 | 5,99E-03 | 6,84E-02 | 1,34E-01 | 8,68E-03 | -2,62E+00 |
| ODP | kg CFC11 -eq | 1,83E-06 | 4,48E-08 | 1,04E-09 | 1,27E-08 | 3,74E-09 | 1,75E-09 | -9,03E-08 |
| POCP | kg C ₂ H ₄ -eq | 9,01E-03 | 2,95E-05 | 9,22E-07 | 8,35E-06 | 2,35E-06 | 3,42E-06 | -1,73E-03 |
| AP | kg SO ₂ -eq | 8,06E-02 | 4,82E-04 | 8,86E-06 | 1,36E-04 | 4,85E-05 | 2,84E-05 | -1,05E-02 |
| EP | kg PO ₄ ³⁻ -eq | 1,16E-02 | 5,13E-05 | 9,85E-07 | 1,45E-05 | 9,12E-06 | 3,53E-06 | -1,56E-03 |
| ADPM | kg Sb -eq | 1,77E-02 | 6,74E-06 | 9,31E-09 | 1,91E-06 | 1,26E-07 | 6,05E-08 | -4,82E-05 |
| ADPE | MJ | 2,27E+02 | 3,61E+00 | 8,29E-02 | 1,02E+00 | 1,39E-01 | 1,67E-01 | -2,56E+01 |
| GWPIOBC | kg CO ₂ -eq | 2,12E+01 | 2,44E-01 | 6,07E-03 | 6,92E-02 | 1,34E-01 | 4,06E-03 | -4,19E+00 |

GWP Global warming potential; ODP Depletion potential of the stratospheric ozone layer; POCP Formation potential of tropospheric photochemical oxidants; AP Acidification potential of land and water; EP Eutrophication potential; ADPM Abiotic depletion potential for non fossil resources; ADPE Abiotic depletion potential for fossil resources; GWP-IOBC/GHG Global warming potential calculated according to the principle of instantaneous oxidation (except emissions and uptake of biogenic carbon)

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| | | |
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