

Environmental product declaration

in accordance with ISO 14025 and EN 15804+A2

Hardtop AX, Jotun Paints (Malaysia) Sdn. Bhd.







The Norwegian EPD Foundation

Owner of the declaration: Jotun A/S

Product: Hardtop AX, Jotun Paints (Malaysia) Sdn. Bhd.

Declared unit: 1 kg

This declaration is based on Product Category Rules: CEN Standard EN 15804:2012+A2:2019 serves as core PCR

IBU PCR Part B for coatings with organic binders

Program operator: The Norwegian EPD Foundation

Declaration number:

NEPD-5110-4440-EN

Registration number:

NEPD-5110-4440-EN

Issue date: 06.10.2023

Valid to: 06.10.2028

EPD Software: LCA.no EPD generator ID: 69355



General information

Product Hardtop AX, Jotun Paints (Malaysia) Sdn. Bhd.

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-5110-4440-EN

This declaration is based on Product Category Rules:

CEN Standard EN 15804:2012 + A2:2019 serves as core PCR IBU PCR Part B for coatings with organic binders

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 kg Hardtop AX, Jotun Paints (Malaysia) Sdn. Bhd.

Declared unit with option:

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

Functional unit:

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. Verification of each EPD is made according to EPD-Norway's guidelines for verification and approval requiring that tools are 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 by an independent third party verifier. See Appendix G of EPD-Norway's General Programme Instructions for further information on EPD tools.

Verification

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:

and Roming

Anne Rønning, Norsus AS

Owner of the declaration:

Jotun A/S Contact person: Cleo Alves Otterbech Phone: +47 33 45 70 00 e-mail: cleo.otterbech@jotun.no

Manufacturer:

Jotun Paints (Malaysia) Sdn. Bhd.

Place of production:

Jotun Paints (Malaysia) Sdn. Bhd. Lot 9143, PN 38500, Kawasan Perindustrian, Nilai 71800 Negeri Sembilan, Malaysia

Management system:

ISO 9001:2008 Certificate nr: 0044915-00, ISO 14001:2004 Certificate nr 0044914-00, ISO 45001: 2018 Certificate nr: 0098139

Organisation no:

923 248 579

Issue date: 06.10.2023

Valid to: 06.10.2028

Year of study:

2023

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. Approval number: NEPDT07

Developer of EPD: Joaquin Quezada

Reviewer of company-specific input data and EPD: Ragnhild Bjerkvik Alnes

Approved:

Håkon Hauan, CEO EPD-Norge



Product

Product description:

Hardtop AX is a two component chemically curing aliphatic acrylic polyurethane coating. It has a high gloss finish with very good gloss retention, good chemical resistance and it is a high solids product.

The declared product has no solvent on the Hazardous Air Pollutants (HAPs) list. Minor amounts of such solvents may come in through tinting of some colors.

Hardtop AX can be used as topcoat in atmospheric environments. Typical uses are:

Marine sector: Recommended for topside, deck and superstructure.

Protective: Recommended for offshore environments, refineries, power plants, bridges and buildings. It is suitable for a wide range of industrial structures and as a topcoat in pre-qualified NORSOK systems.

Product specification

For information on Green Building Standard credits, see subchapter "Additional technical information".

The material composition of the declared mixed product is given below:

| Materials | Value | Unit |
|------------------|---------|------|
| Binders | 25 - 50 | % |
| Filler | 10 - 25 | % |
| Solvents | 10 - 25 | % |
| Titanium dioxide | 10 - 25 | % |
| Additive | 1 - 3 | % |
| Pigment | 0.3 - 1 | % |

Technical data:

Product mixing ratio (by volume): Comp A: 4 part(s). Comp B: 1 part(s).

Density: 1.4 g/cm³ Solids by volume: 63 \pm 2 volume%

Film thickness per coat: Dry film thickness: 50 - 100 μm Wet film thickness: 80 - 160 μm

Theoretical spreading rate: 13 - 6.3 m²/l

The most representative and worst case formulation produced at the manufacturing site is chosen for this EPD. For products with a selection of colours, this will be the formulation with the highest content of titanium dioxide.

The product packaging is based on an average sized metal packaging, including secondary packaging such as pallets and plastic wrapping.

For safety, health and environmental conditions, see the Safety Data Sheet for the declared product on www.jotun.com.

For information on technical data, application and use of the product, see the Technical Data Sheet for the declared product on www.jotun.com.

Market:

It covers the regional markets where the product is produced.

Reference service life, product

The reference service life of the product is highly dependent on the conditions of use.

Estimated service life, object

The coated object is not declared.



LCA: Calculation rules

Declared unit:

1 kg Hardtop AX, Jotun Paints (Malaysia) Sdn. Bhd.

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 |
|----------------------|-----------------------|--------------|------|
| Packaging | ecoinvent 3.6 | Database | 2019 |
| Solvent | ecoinvent 3.6 | Database | 2019 |
| Additives | CEPE RM Database v3.0 | Database | 2016 |
| Binders and Resins | CEPE RM Database v3.0 | Database | 2016 |
| Solvent | CEPE RM Database v3.0 | Database | 2016 |
| Pigments and Fillers | CEPE RM Database v3.0 | Database | 2016 |

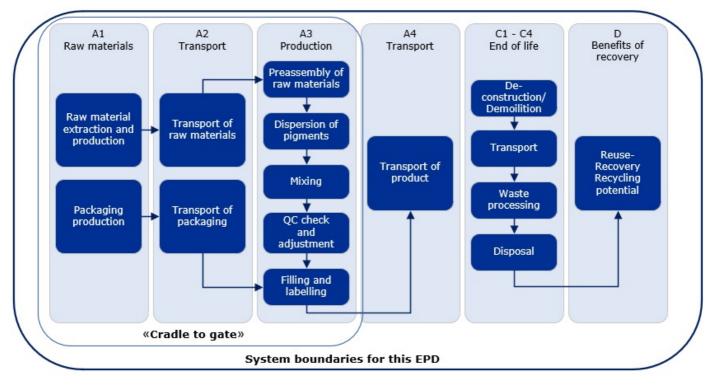


System boundaries (X=included, MND=module not declared, MNR=module not relevant)

| | Product sta | ge | | uction on 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-Recovery- Recycling-potential |
| A1 | A2 | A3 | A4 | A5 | B1 | B2 | B3 | B4 | B5 | B6 | B7 | C1 | C2 | C3 | C4 | D |
| Х | Х | Х | Х | MND | MND | MND | MND | MND | MND | MND | MND | Х | Х | Х | Х | Х |

System boundary:

The flowchart in the figure below illustrates the system boundaries for the analysis, in accordance with the modular principle on EN 15804+A2. The analysis is a cradle-to-gate (A1-A3) study with options, in addition to module A4, transport to market, modules C1-C4 and module D are included.



Additional technical information:

The declared product contributes to Green Building Standard credits by meeting the following specific requirements:

LEED ® v4.1 (2020)/LEED ® v4 (2013)

MR credit: Building product disclosure and optimization

- Environmental Product Declarations: Product-specific Type III EPD (ISO 14025;21930, EN 15804+A2) for Jotun Paints (Malaysia) Sdn. Bhd..

BREEAM ® International (2021)/BREEAM ® International (2016)

- Mat 01: Product-specific Type III EPD (ISO 14025;21930, EN 15804+A2) for Jotun Paints (Malaysia) Sdn. Bhd..

Additional certificates and approvals may be available on request.



LCA: Scenarios and additional technical information

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

This is a cradle to gate (A1-A3) study with options, modules C1-C4, module D and additional module A4 transport to market have been included, as described below.

Module A4 includes the transport of 1 kg of the declared product with packaging from place of production to the market where the product is sold. The calculation is based on average distances to distribution centers in the local market. The declared product is assumed to be transported with the common type of truck used locally.

Module C considers the end-of-life of the construction material. The calculations for module C are based on dried/cured paint. Solvents and water are subtracted from the total coating mass due to the drying/curing processes occurring in modules A5 and B2. Similarly, packaging waste is generated in module A5 and B2, thus it is not accounted for in module C.

Module C1 is modelled with zero impact for the declared product. The coating is not removed from the substrate during decommissioning process, therefore the impact is allocated to the coated object.

Module C2 includes the transport of the paint waste to the closest disposal or waste treatment facility. It is assumed that the waste is transported by truck with characteristics listed in the Table. The transportation distance is set to 50 km.

Module C3 is modelled with no waste paint processing.

Module C4, paint waste is gathered as part of the substrate in construction materials. A typical disposal scenario for paint applied on that substrate is landfill, therefore it is assumed that 100% of the paint waste is sent to landfill facilities.

Module D. Recycling of applied paint is not a common practice, therefore the reuse, recovery and recycling potential is set to zero.

| Transport from production place to user (A4) | Transport from production place to user (A4) Capacity utilisation (incl. return) % Distance (km) | | Fuel/Energy Consumption | Unit | Value (Liter/tonne) |
|--|---|---------------|-------------------------|-------|------------------------|
| Truck World, over 32 tonnes, EURO 4 (km) | 55,0 % | 604 | 0,023 | l/tkm | 13,89 |
| De-construction demolition (C1) | Unit | Value | | | |
| Energy use during decommissioning | kWh/DU | 0,00 | | | |
| Transport to waste processing (C2) | Capacity utilisation (incl. return) % | Distance (km) | Fuel/Energy Consumption | Unit | Value (Liter/tonne) |
| Truck World, over 32 tonnes, EURO 4 (km) | 55,0 % | 50 | 0,023 | l/tkm | 1,15 |
| Waste processing (C3) | Unit | Value | | | |
| Waste treatment per kg Paint, municipal incineration, World (kg) | kg/DU | 0,00 | | | |
| Disposal (C4) | Unit | Value | | | |
| Waste treatment per kg Paint, inert material landfill, World (kg) | kg/DU | 0,77 | | | |
| Benefits and loads beyond the system boundaries (D) | Unit | Value | | | |
| Substitution of raw materials (kg) | kg/DU | 0,00 | | | |



LCA: Results

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

| Environ | mental impact | | | | | | | | |
|---------|----------------------------------|------------------------|-----------|----------|----------|----------|----------|----------|----------|
| | Indicator | Unit | A1-A3 | A4 | C1 | C2 | C3 | C4 | D |
| P | GWP-total | kg CO ₂ -eq | 4,80E+00 | 6,24E-02 | 0,00E+00 | 3,58E-03 | 0,00E+00 | 1,50E-02 | 0,00E+00 |
| P | GWP-fossil | kg CO ₂ -eq | 4,81E+00 | 6,24E-02 | 0,00E+00 | 3,58E-03 | 0,00E+00 | 1,50E-02 | 0,00E+00 |
| P | GWP-biogenic | kg CO ₂ -eq | -2,15E-03 | 2,48E-05 | 0,00E+00 | 1,42E-06 | 0,00E+00 | 7,17E-06 | 0,00E+00 |
| P | GWP-luluc | kg CO ₂ -eq | 1,48E-03 | 1,88E-05 | 0,00E+00 | 1,08E-06 | 0,00E+00 | 4,94E-06 | 0,00E+00 |
| Ò | ODP | kg CFC11 -eq | 1,02E-06 | 1,41E-08 | 0,00E+00 | 8,09E-10 | 0,00E+00 | 4,16E-09 | 0,00E+00 |
| Ê | AP | mol H+ -eq | 3,30E-02 | 3,20E-04 | 0,00E+00 | 1,84E-05 | 0,00E+00 | 8,31E-05 | 0,00E+00 |
| | EP-FreshWater | kg P -eq | 8,37E-04 | 5,61E-07 | 0,00E+00 | 3,22E-08 | 0,00E+00 | 1,31E-07 | 0,00E+00 |
| | EP-Marine | kg N -eq | 5,06E-03 | 1,07E-04 | 0,00E+00 | 6,14E-06 | 0,00E+00 | 2,65E-05 | 0,00E+00 |
| | EP-Terrestial | mol N -eq | 5,39E-02 | 1,18E-03 | 0,00E+00 | 6,78E-05 | 0,00E+00 | 2,92E-04 | 0,00E+00 |
| | РОСР | kg NMVOC -eq | 1,98E-02 | 3,52E-04 | 0,00E+00 | 2,02E-05 | 0,00E+00 | 8,72E-05 | 0,00E+00 |
| #\$Đ | ADP-minerals&metals ¹ | kg Sb -eq | 3,97E-05 | 1,06E-06 | 0,00E+00 | 6,07E-08 | 0,00E+00 | 3,33E-07 | 0,00E+00 |
| A | ADP-fossil ¹ | MJ | 7,96E+01 | 9,60E-01 | 0,00E+00 | 5,52E-02 | 0,00E+00 | 2,78E-01 | 0,00E+00 |
| % | WDP ¹ | m ³ | 3,46E+01 | 3,40E-01 | 0,00E+00 | 1,95E-02 | 0,00E+00 | 1,92E-01 | 0,00E+00 |

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

"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 i | mpact indicators | | | | | | | |
|-------------|---------------------|-------------------|----------|----------|----------|----------|----------|----------|----------|
| l. li | ndicator | Unit | A1-A3 | A4 | C1 | C2 | C3 | C4 | D |
| | PM | Disease incidence | 4,37E-07 | 5,36E-09 | 0,00E+00 | 3,08E-10 | 0,00E+00 | 1,53E-09 | 0,00E+00 |
| ()~() | IRP ² | kgBq U235 -eq | 6,34E+02 | 4,05E-03 | 0,00E+00 | 2,33E-04 | 0,00E+00 | 1,18E-03 | 0,00E+00 |
| | ETP-fw ¹ | CTUe | 4,67E+01 | 7,51E-01 | 0,00E+00 | 4,31E-02 | 0,00E+00 | 1,88E-01 | 0,00E+00 |
| 40 * *** | HTP-c ¹ | CTUh | 2,10E-08 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 2,00E-12 | 0,00E+00 |
| 48 E | HTP-nc ¹ | CTUh | 8,44E-07 | 6,70E-10 | 0,00E+00 | 3,90E-11 | 0,00E+00 | 1,82E-10 | 0,00E+00 |
| 8 | SQP ¹ | dimensionless | 1,37E+01 | 1,09E+00 | 0,00E+00 | 6,24E-02 | 0,00E+00 | 3,45E-01 | 0,00E+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 = Potential Soil Quality Index (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 | | | | | | | | | |
|--------------|----------|----------------|----------|----------|----------|----------|----------|----------|----------|
| | ndicator | Unit | A1-A3 | A4 | C1 | C2 | C3 | C4 | D |
| i. B | PERE | MJ | 3,81E+00 | 1,03E-02 | 0,00E+00 | 5,93E-04 | 0,00E+00 | 3,24E-03 | 0,00E+00 |
| | PERM | MJ | 9,57E-02 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| ° ₹ ₁ | PERT | MJ | 3,90E+00 | 1,03E-02 | 0,00E+00 | 5,93E-04 | 0,00E+00 | 3,24E-03 | 0,00E+00 |
| B | PENRE | MJ | 8,68E+01 | 9,60E-01 | 0,00E+00 | 5,52E-02 | 0,00E+00 | 2,78E-01 | 0,00E+00 |
| .Ås | PENRM | MJ | 1,59E-01 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| IA | PENRT | MJ | 8,70E+01 | 9,60E-01 | 0,00E+00 | 5,52E-02 | 0,00E+00 | 2,78E-01 | 0,00E+00 |
| | SM | kg | 2,10E-02 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 3,07E-05 | 0,00E+00 |
| | RSF | MJ | 1,46E-02 | 2,39E-04 | 0,00E+00 | 1,37E-05 | 0,00E+00 | 1,04E-04 | 0,00E+00 |
| Ū. | NRSF | MJ | 9,54E-02 | 1,44E-03 | 0,00E+00 | 8,29E-05 | 0,00E+00 | 4,06E-04 | 0,00E+00 |
| ۲ | FW | m ³ | 2,29E-01 | 1,17E-04 | 0,00E+00 | 6,71E-06 | 0,00E+00 | 1,38E-04 | 0,00E+00 |

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; SENRE = Use of non renewable primary energy resources; SENRE = Use of secondary materials; PENRT = Total use of non renewable primary energy resources; SM = Use of secondary materials; RERT = Total use of non renewable primary energy resources; SM = Use of secondary materials; RERT = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Net use of 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 | 2,86E-02 | 7,33E-05 | 0,00E+00 | 4,21E-06 | 0,00E+00 | 1,72E-05 | 0,00E+00 | | |
| Ū | NHWD | kg | 1,99E+00 | 8,26E-02 | 0,00E+00 | 4,74E-03 | 0,00E+00 | 7,78E-01 | 0,00E+00 | | |
| B | RWD | kg | 1,61E-04 | 6,38E-06 | 0,00E+00 | 3,66E-07 | 0,00E+00 | 1,87E-06 | 0,00E+00 | | |

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 flo | nd of life - Output flow | | | | | | | | | | | |
|--------------------------|--------------------------|------|----------|----------|----------|----------|----------|----------|----------|--|--|--|
| Indicat | or | Unit | A1-A3 | A4 | C1 | C2 | C3 | C4 | D | | | |
| $\langle \phi \rangle$ | CRU | kg | 0,00E+00 | | | |
| \$\$ | MFR | kg | 2,79E-02 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 2,88E-05 | 0,00E+00 | | | |
| DB | MER | kg | 1,73E-02 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 2,33E-07 | 0,00E+00 | | | |
| ۶D | EEE | MJ | 3,11E-03 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 2,02E-06 | 0,00E+00 | | | |
| DÐ | EET | MJ | 4,71E-02 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 3,05E-05 | 0,00E+00 | | | |

CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported energy electrical; 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 | 3,50E-03 | | | | | | | |

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



Additional 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, Malaysia (kWh) | ecoinvent 3.6 | 896,51 | g CO2-eq/kWh |

Dangerous substances

The product contains substances given by the REACH Candidate list that are less than 0,1 % by weight.

Indoor environment

Not applicable for externally applied products.

Additional Environmental Information

| Additional environmental ir | Additional environmental impact indicators required in NPCR Part A for construction products | | | | | | | | | | |
|---------------------------------------|--|----------|----------|----------|----------|----------|----------|----------|--|--|--|
| Indicator Unit A1-A3 A4 C1 C2 C3 C4 D | | | | | | | | | | | |
| GWPIOBC | kg CO ₂ -eq | 4,78E+00 | 6,24E-02 | 0,00E+00 | 3,58E-03 | 0,00E+00 | 1,50E-02 | 0,00E+00 | | | |

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



Bibliography

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Norsok Standard M-501:2012, Edit 6 - Surface preparation and protective coating.

REACH (2006): Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006. REACH Authorization list – Annex XIV, the Restriction list – Annex XVII and the SVHC candidate list.

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| Global Program Operator | Post Box 5250 Majorstuen, 0303 Oslo, Norway | web: | www.epd-norge.no |
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