# Environmental Product Declaration





In accordance with ISO 14025:2006 and EN 15804:2012+A2:2019/AC:2021 for:

# KF70, KF220 and WD4 WALLSTYL®

from

#### **NMC**



Programme:

The International EPD® System, www.environdec.com

Programme operator:

**EPD International AB** 

Type of EPD:

EPD of multiple products, based on worst-case results

EPD registration number:

EPD-IES-0026367:001

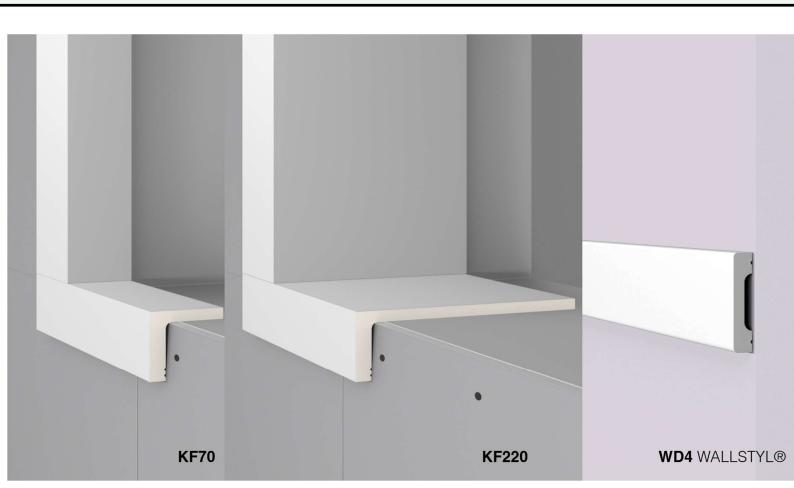
Version date:

2025-12-03 2030-12-02

Validity date:

An EPD may be updated or depublished if conditions change. To find the latest version of the

EPD and to confirm its validity, see www.environdec.com







#### **General information**

|  | Programme Information                                      |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|
| Programme: The International EPD® System |  |  |  |  |  |  |  |  |  |
| Address:                                 | EPD International AB Box 210 60 SE-100 31 Stockholm Sweden |  |  |  |  |  |  |  |  |
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#### **Product Category Rules (PCR)**

CEN standard EN 15804 serves as the Core Product Category Rules (PCR)

**Product Category Rules (PCR):** PRODUCT CATEGORY RULES PCR 2019:14 VERSION 2.0.1 CONSTRUCTION PRODUCTS; UN CPC code: 369 (3695)

**PCR review was conducted by:** The Technical Committee of the International EPD® System. The review panel may be contacted via <a href="mailto:info@environdec.com">info@environdec.com</a>. Chair of the PCR review: Rob Rouwette (chair), Noa Meron (co-chair). The review panel may be contacted via the Secretariat www.environdec.com/contact

| Third-party Verification  |
|---|
| Independent third-party verification of the declaration and data, according to ISO 14025:2006, via: |
| ☑ Individual EPD verification without a pre-verified LCA/EPD tool                                   |
| Third-party individual verifier: Matthew Fishwick, Fishwick Environmental Ltd                       |
| Approved by: International EPD System   |
| Procedure for follow-up of data during EPD validity involves third party verifier:                  |
| ☐ Yes   |

The EPD owner has the sole ownership, liability, and responsibility for the EPD.

EPDs within the same product category but published in different EPD programmes, may not be comparable. For two EPDs to be comparable, they shall be based on the same PCR (including the same first-digit version number) or be based on fully aligned PCRs or versions of PCRs; cover products with identical functions, technical performances and use (e.g. identical declared/functional units); have identical scope in terms of included life-cycle stages (unless the excluded life-cycle stage is demonstrated to be insignificant); apply identical impact assessment methods (including the same version of characterisation factors); and be valid at the time of comparison. For further information about comparability, see EN 15804 and ISO 14025.





#### INFORMATION ABOUT EPD OWNER

Owner of the EPD:

NMC sa

Address:

NMC sa Gert-Noël-Strasse 4731 Eynatten Belgium

Contact:

info@nmc.eu

#### <u>Description of the organisation:</u>

NMC is a leading, growth-oriented international company specializing in synthetic foams. For more than 70 years, the company has put customers and people at the heart of its actions, identifying more and more products and solutions that contribute to comfort and protection for a better life. Some 1,650 employees at 22 sites currently serve customers in 120 countries. NMC is active in the following sectors: solutions for industries, technical insulation, protective packaging, decorative design elements, underlays for floating floors and sport and leisure.

Product-related or management system-related certifications:

The production site is certified ISO 9001:2015 and ISO 14001:2015 certified.

#### **EPD Type**

This EPD for several products is based on the worst-case results for the product group (A WSTL Corn KF220/350 3.50m). The raw materials and manufacturing methods are identical. Only the dimensions of the product delivered varies.

#### PRODUCT INFORMATION

Product name:

KF70, KF220 and WD4 WALLSTYL®

Product identification:

Brand: NOËL & MARQUET Assortment: WALLSTYL® Profiles

Visual representation of the product









#### UN CPC code:

369 (3695)

#### Product description:

Available in two convenient sizes, KF70 and KF220 WALLSTYL®, this all-in-one jamb extension and casing system cuts installation time in half with a single, nail-free application. It's 100% moisture-resistant, reduces heat loss by up to 20%, and is built to withstand rough handling while maintaining a flawless finish. With solid white colour throughout, no shrinking at joints, and optional pre-cut delivery, it ensures fast, clean, and professional results every time.

WD4 WALLSTYL® Chair rails are used as a standalone chair rail or to design unique interior features. The WD4 mouldings can be used to create bespoke panelling, frames or to divide sections. Enhance a wall or ceiling with the timeless and minimalistic WD4. A strong shape and smooth edges produce a sophisticated finish, to highlight the standard of an interior. (More information on https://noel-marquet.net/en/documents)

#### Name and location of production site:

NMC sa Gert-Noël-Strasse B-4731 Eynatten

#### Geographical scope:

The raw materials are sourced in Europe, the product is manufactured in Belgium and marketed, used and disposed of in Europe.

#### CONTENT DECLARATION

The mass (weight) per declared unit:

0,85 kg/m (declared unit) worst-case product.

| Product components   | Mass (kg per declared unit) | Post-consumer material, mass-% (% per declared unit) | Biogenic material,<br>kg C / declared unit |  |  |
|--|-----------------------------|--|--|--|--|
| Polymer (Polystyrene)  | 0,768                       | 0  | 0  |  |  |
| Internal recycled polystyrene*                               | 0,069                       | 0  | 0  |  |  |
| Various additives (pigments, foaming and processing agents,) | 0,006                       | 0  | 0  |  |  |
| Paint  | 0,007                       | 0  | 0  |  |  |
| TOTAL  | 0,85                        | 0  | 0  |  |  |
| Packaging materials  | Mass (kg per declared unit) | Mass-% (versus the product)                          | Biogenic material,<br>kg C / declared unit |  |  |
| Cardboard  | 0,045                       | 5,2  | 0,018                                      |  |  |
| Wooden Pallet  | 0,046                       | 5,4  | 0,021                                      |  |  |
| TOTAL  | 0,091                       | 10,7   | 0,039                                      |  |  |

<sup>\*</sup> Internal recycled polystyrene = Pre-consumer scrap reprocessed and reused on-site during manufacturing





1 kg biogenic carbon in the product/packaging is equivalent to the uptake of 44/12 kg of CO<sub>2</sub>.

Note: Packaging varies from one item to another; in the table above, the packaging values indicated are a weighted average based on the production quantities of the various items.

#### REACH-Regulated Substances and Safety Information

In accordance with Article 33(1) of Regulation (EC) No 1907/2006, suppliers of articles containing SVHCs published in the official ECHA Candidate List in concentrations above 0,1% w/w must provide their customers with sufficient information to allow safe use of the article, including at least the name of the substance.

The articles listed in Annex I of this communication do not contain Candidate List substances (latest update 25.06.2025) in concentrations above 0,1% w/w and are therefore not subject to proactive notification. Hence, we do not make a communication under Article 33 of the REACH Regulation. Therefore, we are not required to notify any articles in the ECHA SCIP database. Furthermore, based on current information from our upstream suppliers, we hereby declare that the references provided do not contain any substances listed in Annex XIV, i.e. substances subject to authorization, and that we comply with the restrictions under Annex XVII of the REACH Regulation. (https://noel-marquet.net/en/documents)

Annex I: WALLSTYL®

#### LCA INFORMATION

#### **Declared unit:**

1 meter of KF70, KF220 and WD4 WALLSTYL® (300 kg/m³, 850 g/m, height 220 mm, width 57 mm) (used as multi-functional profiles for window embrasures and chair rails).

#### Product lifespan:

50 years

#### Time representativeness:

The complete reference year used for the plant production data is 2024.

#### Geographical and temporal representativeness of primary data

The primary data collected relating to the manufacture of the product studied are representative of production in 2024 for the NMC Belgium site. The electricity mix used in the model is a specific process based on the Belgian grid mix, but adapted to the only green electricity produced, since NMC Belgium buys its electricity with a certificate of origin guaranteeing that it is produced entirely from renewable energy sources. This process has a GWP impact of 0.0167 kg CO<sub>2</sub>e/kWh (59,5% nuclear, 2,3% hydro, 8,8% photovoltaic, 5,7% biomass, 1,8% biogas and 22% wind power).

#### Database(s) and LCA software used:

The LCA and results were calculated using LCA for Expert 10.9 and its content version 2024. Some of the data used comes from the ECOINVENT 3.10 database in the cut-off version.

#### Description of system boundaries:

Cradle-to-gate with options, modules C1-C4, module D and optional modules A4, A5, and B.

#### Cut-off Criteria for the Exclusion of Inputs and Outputs:





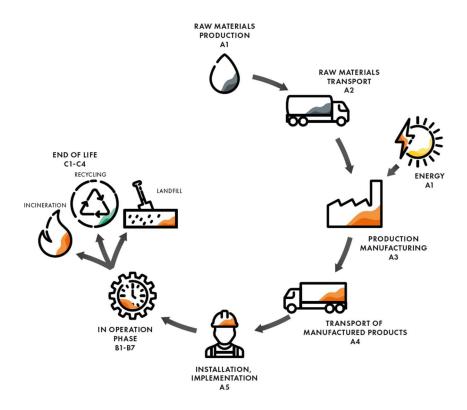
In compliance with the rules in EN 15804:2012+A2:2019, 6.3.6, the cut-off criteria are 1% of renewable and non-renewable primary energy usage and 1% of the total mass input of a unit process. All known inputs and outputs were included. Data gaps were filled with conservative assumptions and generic data. The neglected input flows are each below 1% of the total mass or the total impact of primary energy. In total, they constitute less than 5% of the overall mass or 5% of the total energy.

Workshop cleaning, the administrative department, employee transport, manufacturing and heavy maintenance of production equipment have been omitted from the boundaries of the system in accordance with standard EN 15804. Offcuts generated during installation are landfilled.

#### Allocation methods:

During production, pre-consumer scrap (such as off-cuts and process waste) is generated. This material is not discarded but reused internally. Part of the scrap is reintegrated into the product system covered by this EPD, while another part may be used for other products outside its scope. Scrap reused within this product system is considered part of the main process, so no allocation is applied. For scrap used in other product systems, economic allocation is applied according to PCR 2019:14 v2.0.1 section 4.5.3. Internal recycling includes collection, reprocessing (e.g., grinding, melting), and reintegration into production, based on Sphera data and internal information, in line with EN 15804+A2 and the applicable PCR. The cut-off end-of-life allocation approach is consistently applied for materials leaving the product system for recycling (in module C3). Site-level processes are allocated to product system, no inputs of pre-consumer or postconsumer scrap are used in the system.

#### Process flow diagram:



Production stage, A1- A3:





This stage considers the extraction, production and transport of raw materials, the production of energy consumed on site, the manufacture of KF70, KF220 and WD4 WALLSTYL®, its packaging and storage prior to shipment and delivery. The treatment of waste leaving the plant is a mix of recycling and incineration.

#### - A1 Raw materials supply

This module takes into account the supply and processing of raw materials and the energies generated upstream of the manufacturing process.

#### - A2 Transport to manufacturing site

This module takes into account road transport. Vehicles used in the modelling: Euro 0-6 diesel mix freight truck with a loading capacity of 27 tons. The truck loading rate for raw materials has been estimated at 50%.

#### - A3 Production

The manufacture of KF70, KF220 and WD4 WALLSTYL® involve incorporating the formulation ingredients into an extruder, adding a foaming agent, mixing, heating and then extruding the mixture through a die where foaming takes place. The product is then water-cooled before being cut to size, packaged, and stored.

#### - A4 transport

This step models the transport of KF70, KF220 and WD4 WALLSTYL® from the production site to the building site.

| Scenario information            | Value  | Unit |
|---------------------------------|--|------|
| Vehicle type                    | Truck-trailer, Euro 0 - 6 mix POCP adapted   | n/a  |
| Fuel type                       | Diesel                                       | n/a  |
| Distance                        | 1337   | km   |
| Fill rate mass payload capacity | 20   | %    |
| Gross vehicle weight            | 34 - 40t gross weight / 27t payload capacity | t    |

#### - A5 Installation

KF70, KF220 and WD4 WALLSTYL® is installed by hand and requires no special tools apart from a manual mitre saw and glue. Auxiliary inputs have not been included in the lifecycle analysis because they are below the cut-off limit. In addition, as each end-user works differently, it has been decided that it is up to the end-user to calculate the environmental impact of these complementary products for the application, as this is customer-specific data. Based on data from the European Paper Recycling Council, it is assumed that the cardboard packaging delivered to the site is partly recycled, while the remainder is incinerated. The figures used are 79.3% recycled and 20.7% incinerated. The 2% of waste generated during installation is considered to be sent to landfill. Single-use wooden pallets are considered untreated wood and are sent to the incinerator at a waste incineration plant.

| Scenario information              | Value                              | Unit |
|-----------------------------------|------------------------------------|------|
| Auxiliary inputs for installation | Excluded as below cut-off criteria | kg   |





| Water use  | Not applicable   | m³        |
|--|--|-----------|
| Use of other resources   | Not applicable   | kg        |
| Quantitative description of energy type<br>(regional mix) and consumption during<br>installation process   | Not applicable   | kWh or MJ |
| Material waste on construction site prior to treatment of waste generated by product installation (specified by type)  | The 2% loss criterion has been adopted, which is equivalent to 0,017 kg per m of KF70, KF220 and WD4 WALLSTYL® placed.   | kg        |
| Outgoing materials (specified by type) generated by waste processing on the construction site, e.g. collection for recycling, energy recovery, disposal (specified by route) | Construction site waste is considered to be sent to landfill (0,017 kg). Cardboard packaging is considered to be sent to a recycling centre (0,035 kg), and 0,01 kg is sent to incineration, along with the pallet (0,046 kg). | kg        |
| Direct emissions into ambient air, soil and water  | Not applicable   | kg        |

#### <u>Life stage in use, B1-B7</u>

Once installed, KF70, KF220 and WD4 WALLSTYL® requires no maintenance or repair. It is dismantled at the end of the building's life or removed when no longer required. In addition, the product undergoes no modification or degradation throughout its entire life cycle. For these reasons, there is no impact on modules B1 to B7.

#### - End-of-life stage, C1-C4

#### - C1 Deconstruction, demolition

As with product installation, disassembly is manual and requires no special equipment. Consequently, there is no impact associated with this module.

#### C2 Transport

The choice of transport for the end-of-life stage was that of truck with a Euro 0-6 diesel mix engine and a loading capacity of 27 tons. Diesel consumption of 38 liters per 100 km. The average distance between the dismantling site and the treatment center (incinerator and landfill) was estimated at 50 km.

- C3 Treatment of waste for reuse, recovery and/or recycling and C4 disposal.

KF70, KF220 and WD4 WALLSTYL® end of life has been modelled and based on a study of the treatment of plastic waste from the construction industry in Europe by Plasticseurope.org. The ratio used according to this study for Polystyrene plastics is 7% sent for mechanical recycling, 64% disposed of in an incinerator with energy recovery, and 29% landfilled as non-hazardous waste.

| Scenario information           | Value and Unit   |
|--------------------------------|--|
| Collecting process             | Manual disassembly   |
| Type-specified recovery system | 0,060 kg foam for recycling<br>0,544 kg foam for energy recovery |
| Disposal specified by type     | 0,247 kg for final disposal (Landfill)                           |
| Scenario assumptions           | Transport over 50 km   |





#### Module D

A benefit beyond the boundaries of the system is the recovery of energy generated from the incineration of waste at end-of-life In the LCA end-of-life calculation, there is no gain for landfill; the gains in energy recovered during incineration and the avoidance of the use of new materials during recycling have been taken into account by the Sphera software and are accounted for in module D. For recycling, burdens associated with the recycling process are included, and quality adjustment factors are applied according to PCR 2019:14 v2.0.1. Net scrap is calculated as output scrap minus input scrap. For incineration, the energy content of the material is considered, and efficiency factors for heat and electricity recovery are applied. Datasets for avoided products (e.g., virgin PS, or paper, electricity and heat) are taken from the GaBi database.

#### More information:

Name and contact information of LCA practitioner: Alain Baltus NMC sa Gert-Noël-Strasse B-4731 Eynatten <a href="mailto:info@nmc.eu">info@nmc.eu</a>

KF70, KF220 and WD4 WALLSTYL® is manufactured at NMC's Belgian site. For the LCA calculation, all elementary input processes as well as all energy and water inputs and waste outputs were considered. This EPD only includes environmental impacts linked to the product itself, such as material losses and packaging disposal.

Modules declared, geographical scope, share of specific data (in GWP-GHG results) and data variation (in GWP-GHG results):





|                        | Pro                 | duct st   | age           | prod      | ruction<br>cess<br>ige    |          |             | Us       | se sta      | ge            |                        |                       | End of life stage          |           |                  |          | Resource<br>recovery<br>stage          |
|------------------------|---------------------|-----------|---------------|-----------|---------------------------|----------|-------------|----------|-------------|---------------|------------------------|-----------------------|----------------------------|-----------|------------------|----------|--|
|                        | Raw material supply | Transport | Manufacturing | Transport | Construction installation | Use      | Maintenance | Repair   | Replacement | Refurbishment | Operational energy use | Operational water use | De-construction demolition | Transport | Waste processing | Disposal | Reuse-Recovery-Recycling-<br>potential |
| Module                 | A1                  | A2        | А3            | A4        | <b>A</b> 5                | В1       | B2          | В3       | B4          | В5            | В6                     | В7                    | C1                         | C2        | С3               | C4       | D                                      |
| Modules<br>declared    | х                   | Х         | х             | Х         | Х                         | Х        | х           | х        | Х           | х             | х                      | х                     | Х                          | х         | х                | х        | Х                                      |
| Geography              | EU<br>27            | EU<br>27  | BE            | EU 27     | EU 27                     | EU<br>27 | EU<br>27    | EU<br>27 | EU<br>27    | EU<br>27      | EU<br>27               | EU<br>27              | EU<br>27                   | EU<br>27  | EU<br>27         | EU<br>27 | EU 27                                  |
| Share of specific data |                     | 3,0%      |               | -         | -                         | -        | -           | -        | -           | -             | -                      | -                     | -                          | -         | -                | -        | -                                      |
| Variation – products   |                     | -81,6%    |               | -         | -                         | -        | -           | -        | -           | -             | -                      | -                     | -                          | -         | -                | -        | -                                      |
| Variation –<br>sites   | N/A                 | (single   | site)         | -         | -                         | -        | -           | -        | -           | -             | -                      | -                     | -                          | -         | -                | -        | -                                      |

Note: X = Modules declared, ND = Modules not declared

The share of primary data is calculated based on GWP-GHG results. It is a simplified indicator for data quality that supports the use of more primary data, to increase the representativeness of and comparability between EPDs. Note that the indicator does not capture all relevant aspects of data quality and is not comparable across product categories.

#### Overview of Data Quality and Primary Data Contribution (A1-A3)

| Process                                    | Source type        | Source                     | Reference year    | Data category  | Share of primary data,<br>of GWP-GHG results<br>for A1-A3 |
|--|--------------------|----------------------------|-------------------|----------------|---|
| General purpose polystyrene                | Database           | LCA for Expert V<br>2025.1 | 2024              | Secondary data | 0%  |
| BE: Electricity Green                      | Company data       | LCA for Expert V<br>2025.1 | 2021              | Primary data   | 0,8%  |
| BE: Electricity from photovoltaic Sphera   | Company data       | LCA for Expert V<br>2025.1 | 2021              | Primary data   | 0,2%  |
| BE: Thermal energy from natural gas Sphera | Company data       | LCA for Expert V<br>2025.1 | 2021              | Primary data   | 2,0%  |
| To   | tal share of prima | ry data, of GWP-GH         | G results for A1- | -A3            | 3,0%  |

The share of primary data for modules A1–A3 is very low (3,0%) because GPPS is modelled using generic databases. Although GPPS accounts for a significant share of the GWP-GHG results for modules A1–A3 (approximately 84,7%), only secondary data from a recognized source (LCA for Experts V 2025.1) was available.

#### **Data Quality Assessment Summary**





In accordance with the requirements of Section A.5.4 of the GPI 5.0, a data quality assessment was conducted for all datasets used in the life cycle assessment (LCA) of the product. All data are secondary, originating from recognized LCA databases. At present, obtaining primary data directly from suppliers remains very challenging.

The overall assessment of data quality yielded the following average scores (1 = very good, 5 = very poor):

Temporal representativeness: 1,5 Geographical representativeness: 1,9 Technological representativeness: 1,9

These scores reflect the current limitations in data availability and supplier access. Nevertheless, the selected datasets are considered sufficiently representative for the intended use of the EPD and comply with the transparency requirements of the PCR and GPI.





#### **ENVIRONMENTAL PERFORMANCE**

# LCA results of the products - main environmental performance results

#### Mandatory impact category indicators according to EN 15804

For the characterization factors (CF) to be used, EN 15804 refers to the "EN 15804 reference package" available at the JRC webpage. In February 2023, this reference package was updated to be based on the EF 3.1 package for CFs to be used in the PEF framework. For this EPD, the EN 15804 reference package based on EF 3.1 is being used.

| Results per Declared unit 1-meter KF70, KF220 and WD4 WALLSTYL® |                           |           |          |            |          |          |          |          |          |           |  |  |
|---|---------------------------|-----------|----------|------------|----------|----------|----------|----------|----------|-----------|--|--|
| Indicator   | Unit                      | A1-A3     | A4       | <b>A</b> 5 | B1-B7    | C1       | C2       | C3       | C4       | D         |  |  |
| GWP-<br>total   | kg CO <sub>2</sub><br>eq. | 1,92E+00  | 2,43E-01 | 2,09E-01   | 0,00E+00 | 0,00E+00 | 3,91E-03 | 1,85E+00 | 7,46E-03 | -8,33E-01 |  |  |
| GWP-<br>fossil  | kg CO <sub>2</sub><br>eq. | 2,12E+00  | 2,41E-01 | 2,39E-03   | 0,00E+00 | 0,00E+00 | 3,87E-03 | 1,85E+00 | 7,44E-03 | -8,32E-01 |  |  |
| GWP-<br>biogenic  | kg CO <sub>2</sub><br>eq. | -2,07E-01 | 0,00E+00 | 2,07E-01   | 0,00E+00 | 0,00E+00 | 0,00E+00 | 1,86E-04 | 0,00E+00 | 0,00E+00  |  |  |
| GWP-<br>luluc   | kg CO <sub>2</sub><br>eq. | 1,22E-03  | 2,46E-03 | 3,90E-06   | 0,00E+00 | 0,00E+00 | 3,97E-05 | 4,85E-05 | 2,04E-05 | -9,98E-04 |  |  |
| ODP   | kg CFC<br>11 eq.          | 1,46E-06  | 3,97E-14 | 1,17E-14   | 0,00E+00 | 0,00E+00 | 6,40E-16 | 3,24E-13 | 2,54E-14 | -6,80E-12 |  |  |
| AP  | mol H⁺<br>eq.             | 3,65E-03  | 3,71E-04 | 1,85E-05   | 0,00E+00 | 0,00E+00 | 5,59E-06 | 1,89E-04 | 4,44E-05 | -1,03E-03 |  |  |
| EP-<br>freshwater   | kg P eq.                  | 5,64E-06  | 6,45E-07 | 3,49E-07   | 0,00E+00 | 0,00E+00 | 1,04E-08 | 1,56E-07 | 4,15E-06 | -8,09E-07 |  |  |
| EP-<br>marine   | kg N eq.                  | 1,06E-03  | 1,55E-04 | 6,01E-06   | 0,00E+00 | 0,00E+00 | 2,29E-06 | 4,32E-05 | 9,61E-06 | -2,91E-04 |  |  |
| EP-<br>terrestrial  | mol N<br>eq.              | 1,14E-02  | 1,62E-03 | 7,05E-05   | 0,00E+00 | 0,00E+00 | 2,38E-05 | 8,46E-04 | 1,05E-04 | -3,24E-03 |  |  |
| POCP  | kg<br>NMVOC<br>eq.        | 4,16E-03  | 3,40E-04 | 1,81E-05   | 0,00E+00 | 0,00E+00 | 5,08E-06 | 1,24E-04 | 3,04E-05 | -8,72E-04 |  |  |
| ADP-<br>minerals&<br>metals*                                    | kg Sb<br>eq.              | 7,22E-07  | 1,59E-08 | 1,59E-10   | 0,00E+00 | 0,00E+00 | 2,56E-10 | 5,13E-09 | 5,06E-10 | -7,83E-08 |  |  |
| ADP-<br>fossil*   | MJ                        | 7,64E+01  | 3,06E+00 | 3,52E-02   | 0,00E+00 | 0,00E+00 | 4,94E-02 | 4,35E-01 | 1,23E-01 | -1,61E+01 |  |  |
| WDP*  | m³                        | 3,08E-01  | 1,09E-03 | 8,47E-03   | 0,00E+00 | 0,00E+00 | 1,76E-05 | 1,52E-01 | 9,17E-04 | -8,52E-02 |  |  |

Acronyms

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

The estimated impact results are only relative statements, which do not indicate the endpoints of the impact categories, exceeding threshold values, safety margins and/or risks.

<sup>\*</sup> Disclaimer 1: The results of this environmental impact indicator shall be used with care as the uncertainties of these results are high or as there is limited experience with the indicator.





Disclaimer 2: The results of the end-of-life stage (modules C1-C4) should be considered when using the results of the product stage (modules A1-A3).

#### Additional mandatory and voluntary impact category indicators

|                          | Results per Declared unit 1-meter KF70, KF220 and WD4 WALLSTYL® |          |            |          |          |          |          |          |          |           |  |  |  |  |
|--------------------------|---|----------|------------|----------|----------|----------|----------|----------|----------|-----------|--|--|--|--|
| Indicator                | Unit  | A1-A3    | <b>A</b> 4 | A5       | B1-B7    | C1       | C2       | С3       | C4       | D         |  |  |  |  |
| GWP-<br>GHG <sup>1</sup> | kg CO <sub>2</sub> eq.  | 2,12E+00 | 2,43E-01   | 2,40E-03 | 0,00E+00 | 0,00E+00 | 3,91E-03 | 1,85E+00 | 7,46E-03 | -8,33E-01 |  |  |  |  |

#### Resource use indicators

| 110       | Results per Declared unit 1-meter KF70, KF220 and WD4 WALLSTYL®   |          |             |              |            |            |          |           |          |           |  |  |
|-----------|---|----------|-------------|--------------|------------|------------|----------|-----------|----------|-----------|--|--|
|           |   | Results  | s per Decla | red unit 1-ı | meter KF70 | , KF220 an | d WD4 WA | LLSTYL®   |          |           |  |  |
| Indicator | Unit  | A1-A3    | <b>A</b> 4  | A5           | B1-B7      | C1         | C2       | C3        | C4       | D         |  |  |
| PERE      | MJ  | 9,12E+00 | 2,31E-01    | 7,64E-01     | 0,00E+00   | 0,00E+00   | 3,72E-03 | 1,95E-01  | 2,06E-02 | -4,15E+00 |  |  |
| PERM      | MJ  | 7,57E-01 | 0,00E+00    | -7,57E-01    | 0,00E+00   | 0,00E+00   | 0,00E+00 | 0,00E+00  | 0,00E+00 | 0,00E+00  |  |  |
| PERT      | MJ  | 9,88E+00 | 2,31E-01    | 7,32E-03     | 0,00E+00   | 0,00E+00   | 3,72E-03 | 1,95E-01  | 2,06E-02 | -4,15E+00 |  |  |
| PENRE     | MJ  | 4,30E+01 | 3,06E+00    | 3,52E-02     | 0,00E+00   | 0,00E+00   | 4,94E-02 | 4,35E-01  | 1,23E-01 | -1,61E+01 |  |  |
| PENRM     | MJ  | 3,34E+01 | 0,00E+00    | -2,51E+00    | 0,00E+00   | 0,00E+00   | 0,00E+00 | -3,09E+01 | 0,00E+00 | 0,00E+00  |  |  |
| PENRT     | MJ  | 7,64E+01 | 3,06E+00    | -2,47E+00    | 0,00E+00   | 0,00E+00   | 4,94E-02 | -3,05E+01 | 1,23E-01 | -1,61E+01 |  |  |
| SM        | kg  | 0,00E+00 | 0,00E+00    | 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  | 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  | 0,00E+00 | 0,00E+00  |  |  |
| FW        | m <sup>3</sup>  | 1,36E-02 | 1,14E-04    | 2,00E-04     | 0,00E+00   | 0,00E+00   | 1,84E-06 | 3,61E-03  | 2,69E-05 | -3,71E-03 |  |  |
| Acronyms  | PERE = Use of renewable primary energy excluding renewable primary energy resources used as raw materials; PERM = Use of renewable primary energy resources: PENRE = Use of non-renewable primary energy resources; PENRE = Use of 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 material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Use of net fresh |          |             |              |            |            |          |           |          |           |  |  |

ry material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Use of net fresh

The option for separating primary energy use into energy used as a raw material and energy used as an energy carrier is option A of PCR 2019:14.

<sup>&</sup>lt;sup>1</sup> This indicator accounts for all greenhouse gases except biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product. As such, the indicator is identical to GWP-total except that the CF for biogenic CO2 is set to zero.





#### **Waste indicators**

|  | Results per Declared unit 1-meter KF70, KF220 and WD4 WALLSTYL® |          |           |            |          |          |          |          |          |           |
|--|---|----------|-----------|------------|----------|----------|----------|----------|----------|-----------|
| Indicator                              | Unit  | A1-A3    | <b>A4</b> | <b>A</b> 5 | B1-B7    | C1       | C2       | C3       | C4       | D         |
| Hazardous<br>waste<br>disposed         | kg  | 1,02E-02 | 1,23E-10  | 1,32E-11   | 0,00E+00 | 0,00E+00 | 1,98E-12 | 7,30E-09 | 2,76E-11 | -8,11E-09 |
| Non-<br>hazardous<br>waste<br>disposed | kg  | 4,31E-02 | 4,28E-04  | 2,40E-02   | 0,00E+00 | 0,00E+00 | 6,90E-06 | 1,29E-02 | 2,45E-01 | -7,06E-03 |
| Radioactive<br>waste<br>disposed       | kg  | 2,54E-03 | 5,78E-06  | 1,24E-06   | 0,00E+00 | 0,00E+00 | 9,32E-08 | 4,37E-05 | 1,78E-06 | -9,47E-04 |

## **Output flow indicators**

|                               | Results per Declared unit 1-meter KF70, KF220 and WD4 WALLSTYL® |          |          |          |          |          |          |          |          |          |
|-------------------------------|---|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Indicator                     | Unit  | A1-A3    | A4       | A5       | B1-B7    | C1       | C2       | С3       | C4       | D        |
| Components for re-use         | kg  | 0,00E+00 |
| Material for recycling        | kg  | 0,00E+00 | 0,00E+00 | 3,53E-02 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 5,95E-02 | 0,00E+00 | 0,00E+00 |
| Materials for energy recovery | kg  | 0,00E+00 | 0,00E+00 | 5,54E-02 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 5,44E-01 | 0,00E+00 | 0,00E+00 |
| Exported energy, electricity  | MJ  | 0,00E+00 |
| Exported energy, thermal      | MJ  | 0,00E+00 |

## Additional environmental impact indicators

|   | Results per Declared unit 1-meter KF70, KF220 and WD4 WALLSTYL® |          |          |          |          |          |          |          |          |           |
|---|---|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| Indicator                                 | Unit  | A1-A3    | A4       | A5       | B1-B7    | C1       | C2       | С3       | C4       | D         |
| Particulate<br>matter                     | Diseas<br>e<br>incide<br>nces                                   | 3,74E-08 | 3,23E-09 | 1,43E-10 | 0,00E+00 | 0,00E+00 | 5,08E-11 | 1,16E-09 | 4,56E-10 | -8,54E-09 |
| lonising<br>radiation,<br>human<br>health | kBq<br>U235<br>eq.  | 2,06E-01 | 8,30E-04 | 1,92E-04 | 0,00E+00 | 0,00E+00 | 1,34E-05 | 7,14E-03 | 2,38E-04 | -1,56E-01 |
| Ecotoxicity, freshwater                   | CTUe  | 3,70E+01 | 3,98E+00 | 3,31E-02 | 0,00E+00 | 0,00E+00 | 6,42E-02 | 1,22E-01 | 2,82E-01 | -3,34E+00 |





| Human<br>toxicity,<br>cancer      | CTUh | 9,11E-10 | 5,37E-11 | 1,17E-12 | 0,00E+00 | 0,00E+00 | 8,66E-13 | 1,36E-11 | 3,88E-12 | -1,67E-10 |
|-----------------------------------|------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| Human<br>toxicity, non-<br>cancer | CTUh | 2,91E-08 | 3,00E-09 | 5,89E-11 | 0,00E+00 | 0,00E+00 | 4,84E-11 | 1,38E-10 | 6,89E-11 | -2,73E-09 |
| Land Use                          | -    | 1,70E+01 | 1,35E+00 | 7,72E-03 | 0,00E+00 | 0,00E+00 | 2,18E-02 | 1,46E-01 | 1,91E-02 | -2,44E+00 |

Disclaimer 1 – for the indicator "Potential Human exposure efficiency relative to U235". 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, or radioactive waste disposal in underground facilities. Potential ionizing radiation from the soil, radon and from some construction materials is also not measured by this indicator.

Disclaimer 2 – for the indicators "abiotic depletion potential for non-fossil resources", "abiotic depletion potential for fossil resources", "water (user) deprivation potential, deprivation-weighted water consumption", "potential comparative toxic unit for ecosystems", "potential comparative toxic unit for humans – cancerogenic", "Potential comparative toxic unit for humans – not cancerogenic", "potential soil quality index". The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high as there is limited experience with the indicator.

#### Complementary End-of-Life Scenarios (100%)

For the additional end-of-life scenarios (100% incineration, 100% recycling, 100% landfill), only the mandatory impact indicators defined by EN 15804+A2 are reported.

| Results per D        | Declared Unit 1 m of K  | F70, KF220 and W  | D4 WALLSTYL® E | nd of life 100% R | Recycling |  |
|----------------------|---|---|----------------|-------------------|-----------|--|
| Indicator            | Unit  | C2  | C3             | C4                | D         |  |
| GWP-total            | kg CO <sub>2</sub> eq.  | 3,91E-03  | 2,43E-01       | 0,00E+00          | -1,87E+00 |  |
| GWP-fossil           | kg CO <sub>2</sub> eq.  | 3,87E-03  | 2,41E-01       | 0,00E+00          | -1,87E+00 |  |
| GWP-biogenic         | kg CO <sub>2</sub> eq.  | 0,00E+00  | 1,92E-03       | 0,00E+00          | 0,00E+00  |  |
| GWP-luluc            | kg CO <sub>2</sub> eq.  | 3,97E-05  | 4,88E-04       | 0,00E+00          | -4,50E-04 |  |
| ODP                  | kg CFC 11 eq.   | 6,40E-16  | 3,27E-12       | 0,00E+00          | -2,78E-12 |  |
| AP                   | mol H⁺ eq.  | 5,59E-06  | 3,71E-04       | 0,00E+00          | -2,82E-03 |  |
| EP-freshwater        | kg P eq.  | 1,04E-08  | 2,06E-06       | 0,00E+00          | -2,39E-06 |  |
| EP-<br>marine        | kg N eq.  | 2,29E-06  | 9,44E-05       | 0,00E+00          | -7,38E-04 |  |
| EP-terrestrial       | mol N eq.   | 2,38E-05  | 1,05E-03       | 0,00E+00          | -8,02E-03 |  |
| POCP                 | kg NMVOC eq.  | 5,08E-06  | 2,40E-04       | 0,00E+00          | -3,18E-03 |  |
| ADP-minerals&metals* | kg Sb eq.   | 2,56E-10  | 5,79E-08       | 0,00E+00          | -1,27E-07 |  |
| ADP-fossil*          | MJ  | 4,94E-02  | 3,36E+00       | 0,00E+00          | -5,32E+01 |  |
| WDP*                 | m <sup>3</sup>  | 1,76E-05  | 4,47E-02       | 0,00E+00          | -1,73E-01 |  |
| Acronyms             | = Global Warming Potentia<br>layer; AP = Acidification po<br>nutrients reaching freshwat<br>marine end compartment; I<br>potential of tropospheric oz | 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





| Results per De       | eclared Unit 1 m of KF | 70, KF220 and WI | 04 WALLSTYL® Er | nd of life 100% In | cineration |
|----------------------|------------------------|------------------|-----------------|--------------------|------------|
| Indicator            | Unit                   | C2               | C3              | C4                 | D          |
| GWP-total            | kg CO <sub>2</sub> eq. | 3,91E-03         | 2,87E+00        | 0,00E+00           | -1,10E+00  |
| GWP-fossil           | kg CO <sub>2</sub> eq. | 3,87E-03         | 2,87E+00        | 0,00E+00           | -1,10E+00  |
| GWP-biogenic         | kg CO <sub>2</sub> eq. | 0,00E+00         | 8,01E-05        | 0,00E+00           | 0,00E+00   |
| GWP-luluc            | kg CO <sub>2</sub> eq. | 3,97E-05         | 2,24E-05        | 0,00E+00           | -1,51E-03  |
| ODP                  | kg CFC 11 eq.          | 6,40E-16         | 1,48E-13        | 0,00E+00           | -1,03E-11  |
| AP                   | mol H⁺ eq.             | 5,59E-06         | 2,54E-04        | 0,00E+00           | -1,29E-03  |
| EP-freshwater        | kg P eq.               | 1,04E-08         | 1,81E-08        | 0,00E+00           | -1,00E-06  |
| EP-<br>marine        | kg N eq.               | 2,29E-06         | 5,71E-05        | 0,00E+00           | -3,74E-04  |
| EP-terrestrial       | mol N eq.              | 2,38E-05         | 1,21E-03        | 0,00E+00           | -4,18E-03  |
| POCP                 | kg NMVOC eq.           | 5,08E-06         | 1,68E-04        | 0,00E+00           | -1,02E-03  |
| ADP-minerals&metals* | kg Sb eq.              | 2,56E-10         | 1,67E-09        | 0,00E+00           | -1,08E-07  |
| ADP-fossil*          | MJ                     | 4,94E-02         | 3,12E-01        | 0,00E+00           | -1,94E+01  |
| WDP*                 | m <sup>3</sup>         | 1,76E-05         | 2,32E-01        | 0,00E+00           | -1,14E-01  |

Acronyms

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

| Results per          | Declared Unit 1 m of | KF70, KF220 and V | WD4 WALLSTYL® | End of life 100% | Landfill |
|----------------------|----------------------|-------------------|---------------|------------------|----------|
| Indicator            | Unit                 | C2                | С3            | C4               | D        |
| GWP-total            | kg CO₂ eq.           | 3,91E-03          | 0,00E+00      | 2,58E-02         | 0,00E+00 |
| GWP-fossil           | kg CO₂ eq.           | 3,87E-03          | 0,00E+00      | 2,57E-02         | 0,00E+00 |
| GWP-biogenic         | kg CO₂ eq.           | 0,00E+00          | 0,00E+00      | 0,00E+00         | 0,00E+00 |
| GWP-luluc            | kg CO₂ eq.           | 3,97E-05          | 0,00E+00      | 7,03E-05         | 0,00E+00 |
| ODP                  | kg CFC 11 eq.        | 6,40E-16          | 0,00E+00      | 8,76E-14         | 0,00E+00 |
| AP                   | mol H⁺ eq.           | 5,59E-06          | 0,00E+00      | 1,53E-04         | 0,00E+00 |
| EP-freshwater        | kg P eq.             | 1,04E-08          | 0,00E+00      | 1,43E-05         | 0,00E+00 |
| EP-<br>marine        | kg N eq.             | 2,29E-06          | 0,00E+00      | 3,31E-05         | 0,00E+00 |
| EP-terrestrial       | mol N eq.            | 2,38E-05          | 0,00E+00      | 3,61E-04         | 0,00E+00 |
| POCP                 | kg NMVOC eq.         | 5,08E-06          | 0,00E+00      | 1,05E-04         | 0,00E+00 |
| ADP-minerals&metals* | kg Sb eq.            | 2,56E-10          | 0,00E+00      | 1,74E-09         | 0,00E+00 |
| ADP-fossil*          | MJ                   | 4,94E-02          | 0,00E+00      | 4,25E-01         | 0,00E+00 |
| WDP*                 | m <sup>3</sup>       | 1,76E-05          | 0,00E+00      | 3,16E-03         | 0,00E+00 |





Acronyms

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

#### Additional environmental information

KF70, KF220 and WD4 WALLSTYL® product has a low density, which means it requires few raw materials to manufacture.

NMC Belgium are certified ISO 9001 and ISO 14001.

NMC has defined its sustainability strategy, keeping a foothold in the present and looking to the future. NMC has thus formalized a new set of guidelines that forms its group-wide sustainability strategy, embedded in the global business strategy. Sustainability goals have therefore been set for 2030, with three focus areas being circularity, decarbonisation, and empowerment.

#### https://nmc.eu/en/downloads/corporate-identity

NMC Belgium is certified according to the system ISCC PLUS and POLYCERT demonstrating the company's commitment to reducing its impact on the environment and using more circular raw materials.

To continue to reduce the environmental impact of the KF70, KF220 and WD4 WALLSTYL® we need to continue to increase our energy efficiency and the switch to more and more renewable energies.

NMC are in addition actively looking for more sustainable sourcing and raw materials as well as more local suppliers to avoid long-distance transport as much as possible.

#### KF70, KF220 and WD4 WALLSTYL® reference included in this EPD and Conversion factors.

Conversion factors: To find out the values of the different impact factors per meter for the different references, multiply the values in the results table by the conversion factor for the desired reference in the table below.

| Reference list of WALLSTYL®<br>KF70, KF220 and WD4 | gr/m | Height (mm) | Width (mm) | Length (mm) | Conversion factor |
|--|------|-------------|------------|-------------|-------------------|
| A WSTL Corn KF220/350 3.50m                        | 850  | 220         | 57         | 3500        | 1,0000            |
| A WSTL Corn KF70/350 3.50m                         | 414  | 70          | 57         | 3500        | 0,4871            |
| A WSTL Corn KF70/220 2.20m                         | 414  | 70          | 57         | 2200        | 0,4871            |
| A WSTL CRai WD4/200 64m                            | 156  | 58          | 12         | 2000        | 0,1835            |
| A DESY Moul WD4/220 70,40m                         | 156  | 58          | 12         | 2200        | 0,1835            |

#### **ABBREVIATIONS**

| Abbreviation          | Definition  |
|-----------------------|---|
| General Abbreviations |   |
| EN                    | European Norm (Standard)  |
| EF                    | Environmental Footprint   |
| GPI                   | General Programme Instructions  |
| ISO                   | International Organization for Standardization                          |
| CEN                   | European Committee for Standardization                                  |
| CPC                   | Central product classification  |
| GHS                   | Globally harmonized system of classification and labelling of chemicals |
| GRI                   | Global Reporting Initiative   |
| SVHC                  | Substances of Very High Concern   |
| ND                    | Not Declared  |
| JRC                   | Joint Research Centre (European Commission)                             |
| GWP                   | Global Warming Potential  |
| GHG                   | Greenhouse gas  |
| CF                    | Characterization factors  |





#### References

General Program Instructions for the International EPD® System. Version 5.0.

#### Product category rules (PCR):

PCR 2019:14 v2.0. Construction Product PCR (EN 15804: A2)

#### EN 15804

EN 15804:2012-04 + A2 2019: Sustainability of construction works — Environmental Product Declarations — Core rules for the product category of construction products.

#### ISO 14025

DIN EN ISO 14025:2011-10: Environmental labels and declarations — Type III environmental declarations — Principles and procedures

#### ISO 14040:2006

ISO 14040:2006: Environmental management — Life cycle assessment — Principles and framework

#### ISO 14044:2006

ISO 14044:2006: Environmental management — Life cycle assessment — Requirements and quidelines

#### CEN/TR 15941:2010

CEN/TR 15941:2010: Sustainability of construction works - Environmental product declarations - Methodology for selection and use of generic data.

#### ISO 9001:2015

Quality management systems.

#### ISO 14001:2015

Environmental management systems.

#### EN 1602: 2013

EN 1602: 2013: Thermal insulating products for building applications. Determination of the apparent density

#### ISO 845:2006

ISO 845:2006: Cellular plastics and rubbers — Determination of apparent density

#### ISO 2896:2001

ISO 2896:2001: Rigid cellular plastics — Determination of water absorption

#### **Sphera LCA for Experts**

Sphera LCA for Experts 10.9 (GaBi) LCA for Experts Software-System and Database for Life Cycle Engineering Copyright © 1992-2023 Sphera Solutions Gmbh Version: 10.9.1.28 DB Schema 8007

#### **Sphera**

Sphera Solutions Gmbh. LCA for Experts 10 LCI documentation. GaBi Databases (sphera.com) + ecoinvent integrated v3.9 database Stuttgart, Echterdingen: Sphera Solutions Gmbh.

#### **Eurostat**

European Statistics: Recovery rates for packaging wastepaper and cardboard packaging for the European Union 27 countries 2014 http://ec.europa.eu/eurostat/home

#### CEN/TS 16516:2013

CEN TS 16516/, AgBB/, /ISO 16000-3/, /ISO 16000-6/, /ISO16000-9/, /ISO 16000-11/ Construction products. Assessment of release of dangerous substances. Determination of emissions into indoor air





## **VERSION HISTORY**

Original Version of the EPD, 2025-12-03

