ENVIRONMENTAL PRODUCT DECLARATION

as per ISO 14025 and EN 15804+A2

Owner of the Declaration Interface Europe Manufacturing BV

Publisher Institut Bauen und Umwelt e.V. (IBU)

Programme holder Institut Bauen und Umwelt e.V. (IBU)

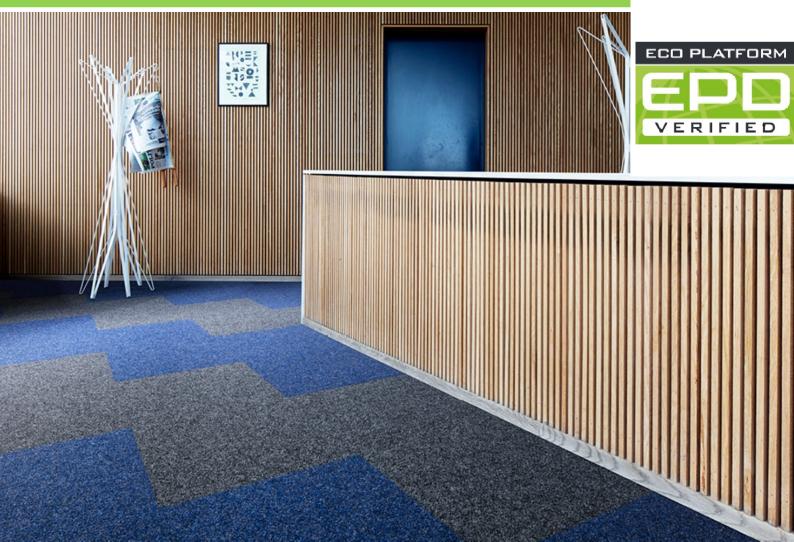
Declaration number EPD-INT-20220230-CBB3-EN

Issue date 11.05.2023 Valid to 10.05.2028

Superflor II, Needled tiles with a total pile weight of 521 g/m² and a CQuest Bio backing Interface



www.ibu-epd.com | https://epd-online.com



| Interface | Superflor II, Needled tiles with a total pile weight of 521 g/m ² and a CQuest Bio backing | | | | | | | |
|---|--|--|--|--|--|--|--|--|
| Programme holder | Owner of the declaration | | | | | | | |
| IBU – Institut Bauen und Umwelt e.V. Hegelplatz 1 10117 Berlin Germany | Interface Europe Manufacturing BV Industrielaan 15 3925ZG Scherpenzeel Netherlands | | | | | | | |
| Declaration number | Declared product / declared unit | | | | | | | |
| EPD-INT-20220230-CBB3-EN | 1 m² needled modular carpet tiles with polypropylene felt covered heavy backing and a pile material of polyamide 6, polypropylene and polyester with 87% recycled content | | | | | | | |
| This declaration is based on the product category rules: | Scope: | | | | | | | |
| Floor coverings, 01.08.2021 (PCR checked and approved by the SVR) | The manufacturer declaration applies to needled carpet tiles with a polypropylene felt covered heavy backing, a pile material of PA 6, PP an PET with a maximum total pile weight of 521 g/m ² . The products are needled in Genemuiden, the Netherlands. The carpets are back coated | | | | | | | |
| Issue date | Scherpenzeel. | | | | | | | |
| 11.05.2023 | The declaration is only valid in conjunction with a valid GUT-PRODIS license of the product. The owner of the declaration shall be liable for the underlying informa | | | | | | | |
| Valid to | and evidence; the IBU shall not be liable with respect to manufacturer information, life cycle assessment data and evidences. | | | | | | | |
| 10.05.2028 | The EPD was created according to the specifications of EN 15804+A2. In the following, the standard will be simplified as <i>EN 15804</i> . | | | | | | | |
| | Verification | | | | | | | |
| | The standard EN 15804 serves as the core PCR | | | | | | | |
| | Independent verification of the declaration and data according to ISO 14025:2011 | | | | | | | |
| Man Roben | internally X externally | | | | | | | |
| DiplIng. Hans Peters (Chairman of Institut Bauen und Umwelt e.V.) | | | | | | | | |
| | | | | | | | | |
| Nam Roben | frall | | | | | | | |
| DiplIng. Hans Peters (Managing Director Institut Bauen und Umwelt e.V.) | Prof. Dr. Birgit Grahl, (Independent verifier) | | | | | | | |

Product

Product description/Product definition

The declaration applies to needled carpet tiles having a surface pile of mainly solution-dyed PA 6, PP and PET with a total pile weight of 521 g/m². The backing of the carpet consists of a CQuest Bio heavy backing covered by a polypropylene felt. The total recycled content of the carpet is 62%.

CQuest Bio backing system:

Backing compound based on renewable wood resin, containing a recycled

filler and glass-fleece reinforcement. For the placing on the market of the specific product in the European

Union/European Free Trade Association (EU/EFTA) (with the exception of

Switzerland) Regulation (EU) No. 305/2011 Construction Product Regulation (CPR) applies. The product needs a Declaration of Performance (DoP) taking into consideration EN 14041:2018-05, Resilient, textile and laminate floor coverings - Essential characteristics, and the CE-marking. The DoP of the product can be found on the manufacturer's technical information section. For the application and

use of the product the respective national provisions apply.

Application

The use class of the specific product as defined in *EN 1307* can be found in the Product Information System (*PRODIS*) using the *PRODIS* registration number of the product.

Technical Data

Constructional data according to EN 1307

| Name | Value | Unit | | | | | | | | |
|---------------------|---|------------------|--|--|--|--|--|--|--|--|
| Product Form | Modular carpet tiles, 50 cm x 50 cm | - | | | | | | | | |
| Type of manufacture | Needled carpet | - | | | | | | | | |
| Yarn type | Polyamide 6, polypropylene and polyester from 87% recycled material | - | | | | | | | | |
| Total carpet weight | 4045 | g/m ² | | | | | | | | |
| Secondary backing | CQB backing with a PP felt bottom | - | | | | | | | | |

Performance data of the product in accordance with the declaration of

performance with respect to its essential characteristics according to *EN 14041*: 2018-05, Resilient, textile and laminate floor coverings - Essential characteristics.

Additional product properties in accordance with *EN 1307* can be found on the Product Information System *PRODIS* using the *PRODIS*

registration number of the product (www.pro-dis.info) or on the manufacturer's technical information section.

Base materials/Ancillary materials

| Name | Value | Unit |
|------------------------------|-------|------|
| Polyester | 12.5 | % |
| Polyamide 6 | 9.0 | % |
| Polypropylene | 2.5 | % |
| Ethylene vinyl acetate (EVA) | 5.9 | % |
| Wood resin | 8.1 | % |
| Additives | 2.1 | % |
| Limestone | 59.4 | % |
| Glass fiber | 0.5 | % |

The specific product covered by the EPD contains substances listed in the *ECHA candidate list* (08.07.2021)

exceeding 0.1

percentage by mass: no

This product contains other CMR substances in categories 1A or 1B which are not on the candidate list exceeding 0.1

percentage by mass: no

Biocide products were added to this

construction product or it has been treated with biocide products (this

then concerns a treated product as defined by the (EU) Ordinance on

Biocide Products No. 528/2012): no

Aluminium hydroxide is used as fire retardant.

Reference service life

The

service life of textile floor coverings strongly depends on the correct

installation taking into account the declared use classification and

the adherence to cleaning and maintenance instructions. A calculation of the reference service life according to *ISO* 15686 is not possible.

Alternatively, a reference service life of 15 years can be assumed,

during which the functional and visual quality is guaranteed. This is in accordance with the product the warranty of the manufacturer. The technical service life can be significantly longer.

LCA: Calculation rules

Declared Unit

| Name | Value | Unit |
|-----------------|--------|-------------------|
| Declared unit | 1 | m ² |
| Grammage | 4.045 | kg/m ² |
| Layer thickness | 0.0069 | m |
| Total thickness | 6.9 | mm |
| Gross density | 586 | kg/m ³ |

The declared unit refers to 1 $\rm m^2$ produced textile floor covering. The output of module A5 'Assembly' is 1 $\rm m^2$ installed textile floor covering.

System boundary

Type of EPD: Cradle-to-gate with options System boundaries of modules A, B, C, D:

Modules C3, C4 and D are indicated separately for three endof-life scenarios:

1 - landfill disposal

2 - municipal waste incineration

3 - recovery in a cement plant

A1-A3 Production:

Energy

supply and production of the basic material, processing of secondary

material, auxiliary material, transport of the material to the manufacturing site, emissions, waste water treatment, packaging material

and waste processing up to the landfill disposal of residual waste

(except radioactive waste). Benefits for generated electricity and steam

due to the incineration of production waste are aggregated. Biogenic carbon that is stored in renewable material (wood resin, renewable additives,packaging paper) is taken into account as well as the associated carbon dioxide uptake from the air from which this biogenic carbon comes.

A4 Transport:

Transport of the packed textile floor covering from factory gate to the place of installation.

A5 Installation:

Installation

of the textile floor covering, processing of installation waste and packaging waste up to the landfill disposal of residual waste (except

radioactive waste), the production of the amount of carpet that occurs

as installation waste including its transport to the place of installation.

Generated electricity and steam due to the incineration of waste are listed in the result table as exported energy. Biogenic carbon that is stored in renewable materials in installation waste and packaging paper is

released as carbon dioxide emissions into the air at the end of life in

module A5.

Preparation

of the floor and auxiliary materials (adhesives, fixing agents, PET

connectors) are beyond the system boundaries and not taken into account.

B1 Use:

Indoor

emissions during the use stage. After the first year, no product-related Volatile Organic Compound (VOC) emissions are

relevant due to known VOC decay curves of the product.

B2 Maintenance:

Cleaning of the textile floor covering for a period of 1 year: Vacuum cleaning – electricity supply

Wet cleaning – electricity, water consumption, production of the cleaning agent, waste water treatment

The

declared values in this module have to be multiplied by the assumed

service life of the floor covering in the building in question. B3 - B5:

The modules are not relevant within the assumed reference service life of 15 years.

B6 - B7

No energy and water input are required for the operation of the

carpet in the use stage. The modules do not cause any environmental impact.

C1 De-construction:

The floor covering is de-constructed manually and no additional environmental impact is caused.

C2 Transport:

Transport

of the carpet waste to a landfill, to the municipal waste incineration

plant (MWI) or to the waste collection facility for recycling.

C3 Waste processing:

C3-1: Landfill disposal needs no waste processing.

C3-2: Impact from waste incineration (plant with R1 >

0.6), generated electricity and steam are listed in the result table as exported energy.

C3-3:

Collection of the carpet waste for recovery in the cement industry,

waste processing (granulating), transport to the cement plant, emissions

from the incineration.

C4 Disposal

C4-1: Impact from landfill disposal,

C4-2: The carpet waste leaves the system in module C3-2,

C4-3: The pre-processed carpet waste leaves the system in module C3-3.

D Recycling potential:

Calculated benefits result from materials exclusive secondary materials (net materials).

D-A5: Benefits for generated energy due to incineration of packaging and installation waste (incineration plant with R1 > 0.6).

D-1: Assuming that the chemically bound renewable materials in a landfill gas do not release landfill gas within 100 years, no benefits due to landfill dosposal of carpet waste at the end-of-life are taken into account,

D-2: Benefits for generated energy due to incineration of carpet waste at the end-of-life (incineration plant with R1 > 0.6),

D-3: Benefits for saved fossil energy and saved inorganic material due to recovery of the carpet in a cement plant.

Geographic Representativeness

Land or region, in which the declared product system is manufactured, used or handled at the end of the product's lifespan: Europe

Comparability

Basically, a comparison or an evaluation of EPD data is only possible if all the data sets to be compared were created according to *EN 15804* and the building context, respectively the product-specific characteristics of performance, are taken into account. Background data are taken from the GaBi database, 2022-1. Remaining data gaps are covered by the ecoinvent 3.7 database, 2020

LCA: Scenarios and additional technical information

Characteristic product properties biogenic carbon

| Name | Value | Unit |
|---|-------|---------|
| Biogenic carbon content in product at factory gate | 0.3 | kg C |
| Biogenic carbon content in accompanying packaging at factory gate | 0.05 | kg C |

1 kg biogenic Carbon is equivalent to 44/12 kg of CO₂

Transport to the construction site (A4)

| Name | Value | Unit |
|---|--------|---------|
| Litres of fuel (truck, EURO 0-6 mix) | 0.0095 | l/100km |
| Transport distance | 700 | km |
| Capacity utilisation (including empty runs) | 55 | % |

Installation in the building (A5)

| Name | Value | Unit |
|---------------|-------|------|
| Material loss | 0.121 | kg |

Polyethylene packaging waste and installation waste are considered to be

incinerated in a municipal waste incineration plant. Cardboard packaging

waste is going to be recycled.

Preparation of the floor and auxiliaries (adhesives, fixing agents, PET connectors etc.) are not taken into account.

Maintenance (B2)

The values for cleaning refer to 1 m² floor covering per year. Depending

on the application based on *ISO 10874*, the technical service life

recommended by the manufacturer and the anticipated strain on the floor

by customers, the case-specific useful life can be established. Based on this useful

life the

effects of module B2 need to be calculated in order to obtain the overall environmental impacts.

| Name | Value | Unit |
|-------------------------------------|-------|----------------|
| Maintenance cycle (vacuum cleaning) | 208 | Number /year |
| Maintenance cycle (wet cleaning) | 1,5 | Number /year |
| Water consumption (wet cleaning) | 0.004 | m ³ |
| Cleaning agent (wet cleaning) | 0.09 | kg |
| Electricity consumption | 0.314 | kWh |

For further information on cleaning and maintenance see www.interface.com

Service life

| Name | Value | Unit |
|---|--|------|
| Life Span (according to manufacturer's warranty) | 15 | а |
| Declared product properties (at the gate) and finishes | Corresponds to the specifications of EN 1307 | 1 |
| An assumed quality of work, when installed in accordance with the manufacturer's instructions | Conforms to the manufacturer's instructions | 1 |
| Usage conditions, e.g. frequency of use, mechanical exposure | Use in areas defined by the use class according to EN 1307 | - |
| Maintenance e.g. required frequency, type and quality and replacement of components | According to the manufacturers instructions | - |

End of Life (C1-C4)

Three different end-of-life scenarios are declared and the results are indicated separately in module C.

Each scenario is calculated as a 100% scenario.

Scenario 1: 100 % landfill disposal

Scenario 2: 100 % municipal waste incineration (MWI)

with R1 > 0.6

Scenario 3: 100 % recovery in the cement industry

If combinations of these scenarios have to be calculated this should be done according to the following scheme:

EOL-impact = x % impact (Scenario 1)

+ y % impact (Scenario 2)

+ z % impact (Scenario 3)

with x % + y % + z % = 100 %

| Name | Value | Unit |
|--|-------|------|
| Collected as mixed construction waste (scenario 1 and 2) | 4.045 | kg |
| Collected separately (scenario 3) | 4.045 | kg |
| Landfilling (scenario 1) | 4.045 | kg |
| Energy recovery (scenario 2) | 4.045 | kg |
| Energy recovery (scenario 3) | 1.621 | kg |
| Recycling (scenario 3) | 2.424 | kg |

Reuse, recovery and/or recycling potentials (D), relevant scenario information

Recovery or recycling potentials due to the three end-of-life scenarios (module C) are indicated separately.

Recycling in the cement industry (scenario 3)

The

organic material of the carpet is used as an alternative fuel in a cement

kiln. It mainly substitutes for lignite (68.8%), hard coal (23.6%) and

petrol coke (7.6%). The inorganic material is substantially integrated into the cement clinker and substitutes for original material input. *VDZ e.V.*

LCA: Results

The LCA results refer to the declared product with a total pile weight of 521 g/m². The declared result figures in module B2 have to be multiplied by the assumed service life (in years) of the floor covering in the building under consideration. Information on non-relevant modules: Modules B3 - B7 are not relevant during the service life of the carpet. Modules C1, C3/1, C4/2 and C4/3 cause no additional impact (see chapter "LCA: Calculation rules" in this document). All these modules are declared and marked as 'modules not relevant/declared'. Module C2 represents the transport for scenarios 1, 2 and 3. Column D represents benefits from module A5 assembly.

DESCRIPTION OF THE SYSTEM BOUNDARY (X = INCLUDED IN LCA; ND = MODULE OR INDICATOR NOT DECLARED; MNR = MODULE NOT RELEVANT)

| Pro | Product stage | | | ruction s stage | | Use stage | | | | | | E | End of li | ife stage | Э | Benefits and loads beyond the system boundaries |
|---------------------|---------------|---------------|-------------------------------------|--------------------|-----|-------------|--------|-------------|---------------|---------------------------|-----------------------|-------------------------------|-----------|------------------|----------|---|
| Raw material supply | Transport | Manufacturing | Transport from the gate to the site | 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 | В3 | B4 | B5 | В6 | B7 | C1 | C2 | C3 | C4 | D |
| Х | Х | Х | Х | Х | Х | Х | MNR | MNR | MNR | MND | MND | Χ | Χ | Х | Х | X |

| RESULTS (| OF THE L | CA - EN | IVIRON | MENTAL | IMPAC | T accor | ding to | EN 158 | 304+A2: | 1 m ² flo | or covei | ring | | | |
|-------------------|--|---------------|----------|----------|--------------|----------|---------|----------|----------|----------------------|-----------|-----------|-----|---------------|---------------|
| Parameter | Unit | A1-A3 | A4 | A5 | B1 | B2 | C1 | C2 | C3/2 | C3/3 | C4/1 | D | D/1 | D/2 | D/3 |
| GWP-total | kg CO ₂ eq | 6.11E+00 | 2.48E-01 | 3.76E-01 | 0 | 5.49E-01 | 0 | 1.37E-02 | 4.31E+00 | 4.36E+00 | 2.5E+00 | -4.5E-02 | 0 | -1.04E +00 | -2.52E-01 |
| GWP-fossil | kg CO ₂ eq | 7.38E+00 | 2.44E-01 | 3.54E-01 | 0 | 3.48E-01 | 0 | 1.35E-02 | 3.2E+00 | 3.25E+00 | 1.39E+00 | -4.48E-02 | 0 | -1.04E +00 | -2.52E-01 |
| GWP- biogenic | kg CO ₂ eq | -1.28E +00 | 3.15E-03 | 2.19E-02 | 0 | 4.16E-03 | 0 | 1.74E-04 | 1.11E+00 | 1.11E+00 | 1.11E+00 | -2.29E-04 | 0 | -5.31E-03 | -2.85E-04 |
| GWP-luluc | kg CO ₂ eq | 4.48E-03 | 1.38E-03 | 1.86E-04 | 0 | 1.96E-01 | 0 | 7.63E-05 | 2.46E-04 | 4.42E-04 | 1.4E-04 | -4.92E-06 | 0 | -1.14E-04 | -1.05E-04 |
| ODP | kg CFC11 eq | 1.37E-08 | 1.48E-14 | 4.1E-10 | 0 | 3.42E-08 | 0 | 8.2E-16 | 3.03E-13 | 6.08E-13 | 3.85E-13 | -3.03E-13 | 0 | -7.01E-12 | -4.67E-13 |
| AP | mol H ⁺ eq | 1.53E-02 | 1.47E-03 | 5.84E-04 | 0 | 8.32E-04 | 0 | 8.15E-05 | 2.52E-03 | 2.77E-03 | 8.5E-04 | -5.89E-05 | 0 | -1.36E-03 | -7.3E-04 |
| EP- freshwater | kg P eq | 1.09E-04 | 7.38E-07 | 3.32E-06 | 0 | 5.19E-06 | 0 | 4.09E-08 | 8.41E-07 | 1E-06 | 5.35E-05 | -6.16E-08 | 0 | -1.43E-06 | -2.49E-07 |
| EP-marine | kg N eq | 4.39E-03 | 7.23E-04 | 1.9E-04 | 0 | 1.97E-04 | 0 | 4E-05 | 1.16E-03 | 1.27E-03 | 1.88E-04 | -1.6E-05 | 0 | -3.7E-04 | -2.48E-04 |
| EP-terrestrial | mol N eq | 4.27E-02 | 8E-03 | 1.95E-03 | 0 | 2.83E-03 | 0 | 4.43E-04 | 1.31E-02 | 1.43E-02 | 2.06E-03 | -1.71E-04 | 0 | -3.97E-03 | -2.71E-03 |
| POCP | kg NMVOC eq | 1.31E-02 | 1.37E-03 | 5.3E-04 | 4.18E-04 | 9.83E-04 | 0 | 7.57E-05 | 3E-03 | 3.21E-03 | 6.05E-04 | -4.47E-05 | 0 | -1.04E-03 | -7.69E-04 |
| ADPE | kg Sb eq | 2.19E-06 | 2.07E-08 | 6.71E-08 | 0 | 2.3E-07 | 0 | 1.15E-09 | 2.29E-08 | 3.15E-08 | 1.99E-08 | -6.75E-09 | 0 | -1.57E-07 | -2.25E-08 |
| ADPF | MJ | 1.6E+02 | 3.31E+00 | 4.98E+00 | 0 | 5.9E+00 | 0 | 1.83E-01 | 2.57E+00 | 3.4E+00 | 4.07E+00 | -7.61E-01 | 0 | -1.77E +01 | -4.09E +01 |
| WDP | m ³ world eq deprived | 1.48E+01 | 2.21E-03 | 4.66E-01 | 0 | 9.99E-02 | 0 | 1.22E-04 | 6.05E-01 | 6.1E-01 | -3.04E-03 | -4.72E-03 | 0 | -1.09E-01 | -4.09E-02 |

GWP = Global warming potential; ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential of land and water; EP = Eutrophication potential; POCP = Formation potential of tropospheric ozone photochemical oxidants; ADPE = Abiotic depletion potential for non-fossil resources; ADPF = Abiotic depletion potential for fossil resources; WDP = Water (user) deprivation potential)

| RESULTS OF THE LCA - INDICATORS TO DESCRIBE RESOURCE USE according to EN 15804+A2: 1 m² floor covering | | | | | | | | | | | | | | | |
|--|----------------|----------|----------|-----------|----|----------|----|----------|---------------|---------------|----------|-----------|-----|-----------|-----------|
| Parameter | Unit | A1-A3 | A4 | A5 | B1 | B2 | C1 | C2 | C3/2 | C3/3 | C4/1 | D | D/1 | D/2 | D/3 |
| PERE | MJ | 3.37E+01 | 1.88E-01 | 1.77E+00 | 0 | 3.69E+00 | 0 | 1.04E-02 | 1.62E+01 | 1.64E+01 | 3.34E-01 | -2.09E-01 | 0 | -4.84E+00 | -2.8E-01 |
| PERM | MJ | 1.59E+01 | 0 | -2.6E-01 | 0 | 0 | 0 | 0 | -1.57E +01 | -1.57E +01 | 0 | 0 | 0 | 0 | 0 |
| PERT | MJ | 4.97E+01 | 1.88E-01 | 1.51E+00 | 0 | 3.69E+00 | 0 | 1.04E-02 | 4.66E-01 | 7.01E-01 | 3.34E-01 | -2.09E-01 | 0 | -4.84E+00 | -2.8E-01 |
| PENRE | MJ | 1.29E+02 | 3.31E+00 | 5.38E+00 | 0 | 5.9E+00 | 0 | 1.83E-01 | 3.32E+01 | 3.4E+01 | 4.07E+00 | -7.61E-01 | 0 | -1.77E+01 | -4.09E+01 |
| PENRM | MJ | 3.1E+01 | 0 | -3.96E-01 | 0 | 0 | 0 | 0 | -3.06E +01 | -3.06E +01 | 0 | 0 | 0 | 0 | 0 |
| PENRT | MJ | 1.6E+02 | 3.31E+00 | 4.99E+00 | 0 | 5.9E+00 | 0 | 1.83E-01 | 2.57E+00 | 3.4E+00 | 4.07E+00 | -7.61E-01 | 0 | -1.77E+01 | -4.09E+01 |
| SM | kg | 2.57E+00 | 0 | 7.72E-02 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2E-02 |
| RSF | MJ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NRSF | MJ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FW | m ³ | 3.69E-01 | 2.12E-04 | 1.16E-02 | 0 | 3.34E-03 | 0 | 1.18E-05 | 1.43E-02 | 1.45E-02 | 4.76E-05 | -2E-04 | 0 | -4.63E-03 | -3.55E-03 |

PERE = Use of renewable primary energy excluding renewable primary energy resources used as raw materials; PERM = Use of renewable primary energy resources; penergy resources used as raw materials; penergy resources; penergy resources used as raw materials; penergy resources; pe

RESULTS OF THE LCA – WASTE CATEGORIES AND OUTPUT FLOWS according to EN 15804+A2:

| The noor covering | | | | | | | | | | | | | | | |
|-------------------|------|----------|----------|----------|----|----------|----|----------|----------|----------|----------|-----------|-----|-----------|-----------|
| Parameter | Unit | A1-A3 | A4 | A5 | B1 | B2 | C1 | C2 | C3/2 | C3/3 | C4/1 | D | D/1 | D/2 | D/3 |
| HWD | kg | 2.26E-07 | 1.59E-11 | 6.79E-09 | 0 | 4.19E-05 | 0 | 8.78E-13 | 3.67E-10 | 4.02E-10 | 6.27E-10 | -1.03E-10 | 0 | -2.39E-09 | -7.02E-11 |
| NHWD | kg | 1.19E-01 | 4.75E-04 | 4.02E-02 | 0 | 7.3E-03 | 0 | 2.63E-05 | 1.21E+00 | 1.21E+00 | 4.03E+00 | -3.85E-04 | 0 | -8.92E-03 | -7.89E-04 |
| RWD | kg | 4.13E-03 | 4.08E-06 | 1.27E-04 | 0 | 3.76E-04 | 0 | 2.26E-07 | 1.03E-04 | 1.64E-04 | 5E-05 | -5.99E-05 | 0 | -1.39E-03 | -5.59E-05 |
| CRU | kg | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| MFR | kg | 0 | 0 | 1.21E-01 | 0 | 0 | 0 | 0 | 0 | 1.37E+00 | 0 | 0 | 0 | 0 | 0 |
| MER | kg | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| EEE | MJ | 0 | 0 | 1.87E-01 | 0 | 0 | 0 | 0 | 4.17E+00 | 0 | 0 | 0 | 0 | 0 | 0 |
| EET | MJ | 0 | 0 | 3.49E-01 | 0 | 0 | 0 | 0 | 8E+00 | 4.84E+01 | 0 | 0 | 0 | 0 | 0 |

HWD = Hazardous waste disposed; NHWD = Non-hazardous waste disposed; RWD = Radioactive waste disposed; CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported electrical energy; EET = Exported thermal energy

RESULTS OF THE LCA – additional impact categories according to EN 15804+A2-optional:

| The floor severing | | | | | | | | | | | | | | | |
|--------------------|-------------------|----------|----------|----------|---------|----------|----|----------|----------|----------|----------|-----------|-----|-----|-----------|
| Parameter | Unit | A1-A3 | A4 | A5 | B1 | B2 | C1 | C2 | C3/2 | C3/3 | C4/1 | D | D/1 | D/2 | D/3 |
| PM | Disease incidence | 1.22E-07 | 8.51E-09 | 4.49E-09 | 0 | 6.84E-08 | 0 | 4.71E-10 | 1.78E-08 | 1.94E-08 | 8.17E-09 | -4.88E-10 | 0 | 0 | -9.52E-09 |
| IR | kBq U235 eq | 6.62E-01 | 5.98E-04 | 2.04E-02 | 0 | 6.78E-02 | 0 | 3.31E-05 | 1.57E-02 | 2.59E-02 | 7.38E-03 | -1.02E-02 | 0 | 0 | -4.81E-03 |
| ETP-fw | CTUe | 1.17E+02 | 2.29E+00 | 3.63E+00 | 3.6E-03 | 2.69E+00 | 0 | 1.27E-01 | 1.49E+00 | 1.97E+00 | 3.98E+00 | -1.67E-01 | 0 | 0 | -6.87E+00 |
| HTP-c | CTUh | 2.54E-09 | 4.64E-11 | 7.99E-11 | 0 | 6.21E-10 | 0 | 2.57E-12 | 6.84E-11 | 7.95E-11 | 1.79E-10 | -7.68E-12 | 0 | 0 | -6.07E-11 |
| HTP-nc | CTUh | 1.03E-07 | 2.75E-09 | 3.34E-09 | 2.6E-11 | 9.46E-09 | 0 | 1.52E-10 | 4.99E-09 | 5.55E-09 | 1.5E-08 | -2.95E-10 | 0 | 0 | -3.07E-09 |
| SQP | SQP | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |

PM = Potential incidence of disease due to PM emissions; IR = Potential Human exposure efficiency relative to U235; ETP-fw = Potential comparative Toxic Unit for ecosystems; HTP-c = Potential comparative Toxic Unit for humans (cancerogenic); HTP-nc = Potential comparative Toxic Unit for humans (not cancerogenic); SQP = Potential soil quality index

No substantiated values can be given for the SQP indicator with the existing database.

The result

figures given in module B2 refer to a period of 1 year because a reference service life is not declared. They have to be multiplied by the assumed service life (in years) of the floor covering in the building under consideration.

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 nor due to radioactive waste disposal in undergroundfacilities. Potential ionizing radiation from the soil, from 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 or as there is limited experienced with the indicator.

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Publisher

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