ENVIRONMENTAL

as per *ISO 14025* and *EN 15804+A2*

Owner of the Declaration	Interface®
Programme holder	Institut Bauen und Umwelt e.V. (IBU)
Publisher	Institut Bauen und Umwelt e.V. (IBU)
Declaration number	EPD-INT-20220226-CBB1-EN
Issue date	17.02.2023
Valid to	16.02.2028

Modular carpet tiles with Sone acoustic felt covered CQuest Bio heavy backing

pile material: solution-dyed polyamide 6 yarn 100% recycled, with a maximum total pile weight of 1500 g/m^2

Interface®

Institut Bauen und Umwelt e.V.

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General Information

Interface®

Modular carpet tiles with Sone acoustic felt covered CQuest Bio heavy backing

pile material: solution-dyed polyamide 6 yarn 100% recycled with a maximum total pile weight of 1500 g/m²

Programme holder
IBU – Institut Bauen und Umwelt e.V.
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10117 Berlin
Germany

Owner of the declaration
Interface Europe Manufacturing BV
Industrielaan 15
3925 ZG Scherpenzeel
The Netherlands

Declaration number
EPD-INT-20220226-CBB1-EN

Declared product / declared unit
1 m² tufted modular carpet tiles with Sone acoustic felt covered CQuest Bio (CQB) heavy backing and a pile material of PA 6 with 100% recycled content

This declaration is based on the product category rules:
Floor coverings, 02/2018
(PCR checked and approved by the SVR)

Scope:
The manufacturer declaration applies to tufted carpet tiles with a Sone polyester felt covered CQuest Bio backing, a pile material of 100% recycled PA 6 with a maximum total pile weight of 1500 g/m². The products are tufted in Scherpenzeel, the Netherlands, or in Craigavon, Ireland. Backing is applied in Scherpenzeel, Netherlands.
LCA results for products with a maximum total pile weight of 535 g/m² can be taken from the corresponding tables of the annexe. Specific data for every product within the declared group of products in relation to its total pile weight can be calculated by using equation 1 given in the annexe (see annexe chapter: 'General Information on the annexe'). The declaration is only valid in conjunction with a valid GUT-*PRODIS* license of the product.

Issue date
17.02.2023

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The owner of the declaration shall be liable for the underlying information and evidence; the IBU shall not be liable with respect to manufacturer information, life cycle assessment data and evidences.
The EPD was created according to the specifications of *EN 15804+A2*. In the following, the standard will be simplified as *EN 15804*.

Verification

The standard *EN 15804* serves as the core PCR
Independent verification of the declaration and data according to *ISO 14025:2011*
☐ internally ☒ externally

Dipl. Ing. Hans Peters
(chairman of Institut Bauen und Umwelt e.V.)

Dr. Alexander Röder
(Managing Director Institut Bauen und Umwelt e.V.))

Prof. Dr. Birgit Grahl
(Independent verifier)

Product

Product description/Product definition
The declaration applies to tufted carpet tiles having a surface pile of 100% recycled solution dyed polyamide 6 with a maximum total pile weight of 1500 g/m². The backing of the carpet consists of a CQuest Bio heavy backing covered by a Sone acoustic polyester felt with a recycled content of 98%. The total recycled content of the carpet is 81%.
CQuest Bio backing system Sone: Backing compound based on renewable wood resin, containing a recycled filler, glass-fleece reinforcement and polyester covering fleece.

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
The performance data listed in the Declaration of Performance (DoP) apply.

Constructional data according to EN 1307

Name	Value	Unit
Product Form	Modular carpet tiles, 50 cm x 50 cm	-
Type of manufacture	Tufted carpet	-
Yarn type	Polyamide 6 from 100% recycled material	-
Total carpet weight	4844	g/m²
Secondary backing	CQuest Bio backing with acoustic textile bottom Sone	-

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
Polyamide 6	30.9	%
Polyester	11.8	%
Ethylene vinyl acetate (EVA)	4.9	%
Wood resin	5.8	%
Additives	1.6	%
Limestone	40.3	%
Aluminiumhydroxide	4.3	%
Glass fiber	0.4	%

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 (In accordance with the warranty of the manufacturer). The technical service life can be significantly longer.

LCA: Calculation rules

Declared Unit

The indicated values refer to a virtual reference product with the max. total pile weight and the max. total weight.

Name	Value	Unit
Declared unit	1	m²
Grammage (declared virtual product)	4.844	kg/m²
Total thickness (heaviest real product)	9.6	mm
Gross density (heaviest real product)	430	kg/m³

The declared unit refers to 1 m² produced textile floor covering. The output of module A5 'Assembly' is 1 m² installed textile floor covering.
As the thickness of a virtual product cannot be calculated due to the fact that the total thickness does not depend on the total weight, the declared total thickness and gross density refer to the heaviest real product.
The layer thickness of the specific product covered by the EPD 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.

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 end-of-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.

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
Information on biogenic Carbon

Name	Value	Unit
Biogenic carbon content in product at factory gate	0.26	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 CO_2

Transport to the construction site (A4)

Name	Value	Unit
Litres of fuel (truck, EURO 0-6 mix)	0.0113	l/100km
Transport distance	700	km
Capacity utilisation (including empty runs)	55	%

Installation in the building (A5)

Name	Value	Unit
Material loss	0.145	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 m^2 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	a
Declared product properties (at the gate) and finishes	Corresponds to the specifications of EN 1307	-
An assumed quality of work, when installed in accordance with the manufacturer’s instructions	Conforms to the manufacturer's instructions	-
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)	4.844	kg
Collected separately (scenario 3)	4.844	kg
Landfilling (scenario 1)	4.844	kg
Energy recovery (scenario 2)	4.844	kg
Energy recovery (scenario 3)	2.664	kg
Recycling (scenario 3)	2.18	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 all declared products with a maximum total pile weight of 1500 g/m². LCA results for products with a maximum total pile weight of 535 g/m² can be taken from the corresponding tables of the annexe. Results for specific products with any other total pile weight can be calculated by using equation 1 given in the annexe (see annexe chapter: 'General Information on the annexe'). 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)

PRODUCT STAGE			CONSTRUCTION PROCESS STAGE		USE STAGE							END OF LIFE STAGE				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	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
X	X	X	X	X	X	X	MNR	MNR	MNR	ND	ND	X	X	X	X	X

RESULTS OF THE LCA - ENVIRONMENTAL IMPACT according to EN 15804+A2: 1 m² floor covering

Core Indicator	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.]	4.64E+0	2.96E-1	4.26E-1	0.00E+0	4.16E-1	0.00E+0	1.64E-2	6.45E+0	6.52E+0	1.29E+0	-2.14E-2	0.00E+0	-2.59E-1	-1.79E-1
GWP-fossil	[kg CO_2-Eq.]	5.95E+0	2.90E-1	4.10E-1	0.00E+0	2.15E-1	0.00E+0	1.61E-2	5.50E+0	5.57E+0	3.40E-1	-2.13E-2	0.00E+0	-2.57E-1	-1.79E-1
GWP-biogenic	[kg CO_2-Eq.]	-1.32E+0	3.75E-3	1.59E-2	0.00E+0	4.16E-3	0.00E+0	2.09E-4	9.49E-1	9.50E-1	9.48E-1	-1.09E-4	0.00E+0	-1.29E-3	-3.18E-4
GWP-luluc	[kg CO_2-Eq.]	1.19E-2	1.64E-3	4.17E-4	0.00E+0	1.96E-1	0.00E+0	9.14E-5	2.29E-4	4.63E-4	1.67E-4	-2.33E-6	0.00E+0	-2.77E-5	-8.81E-5
ODP	[kg CFC11-Eq.]	2.86E-8	1.77E-14	8.59E-10	0.00E+0	3.42E-8	0.00E+0	9.82E-16	5.52E-13	9.18E-13	4.61E-13	-1.43E-13	0.00E+0	-1.69E-12	-2.13E-13
AP	[mol H^+-Eq.]	2.66E-2	1.75E-3	1.07E-3	0.00E+0	8.32E-4	0.00E+0	9.76E-5	7.01E-3	7.31E-3	1.02E-3	-2.79E-5	0.00E+0	-3.33E-4	-7.10E-4
EP-freshwater	[kg P-Eq.]	1.52E-4	8.80E-7	4.62E-6	0.00E+0	5.19E-6	0.00E+0	4.89E-8	8.47E-7	1.04E-6	6.41E-5	-2.91E-8	0.00E+0	-3.45E-7	-1.95E-7
EP-marine	[kg N-Eq.]	9.00E-3	8.61E-4	4.03E-4	0.00E+0	1.97E-4	0.00E+0	4.79E-5	3.48E-3	3.61E-3	2.25E-4	-7.59E-6	0.00E+0	-9.10E-5	-2.10E-4
EP-terrestrial	[mol N-Eq.]	8.44E-2	9.53E-3	4.02E-3	0.00E+0	2.83E-3	0.00E+0	5.30E-4	3.87E-2	4.02E-2	2.47E-3	-8.13E-5	0.00E+0	-9.75E-4	-2.30E-3
POCP	[kg NMVOC-Eq.]	2.13E-2	1.63E-3	9.62E-4	4.18E-4	9.83E-4	0.00E+0	9.06E-5	8.91E-3	9.17E-3	7.24E-4	-2.12E-5	0.00E+0	-2.55E-4	-6.25E-4
ADPE	[kg Sb-Eq.]	2.59E-6	2.46E-8	7.94E-8	0.00E+0	2.30E-7	0.00E+0	1.37E-9	2.96E-8	3.98E-8	2.38E-8	-3.20E-9	0.00E+0	-3.81E-8	-1.74E-8
ADPF	[MJ]	9.04E+1	3.94E+0	2.95E+0	0.00E+0	5.90E+0	0.00E+0	2.19E-1	3.60E+0	4.60E+0	4.87E+0	-3.62E-1	0.00E+0	-4.37E+0	-1.94E+1
WDP	[m^3 world-Eq deprived]	2.04E+1	2.64E-3	6.40E-1	0.00E+0	9.99E-2	0.00E+0	1.47E-4	8.23E-1	8.29E-1	-3.64E-3	-2.23E-3	0.00E+0	-2.64E-2	-2.54E-2

Caption	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

Indicator	Unit	A1-A3	A4	A5	B1	B2	C1	C2	C3/2	C3/3	C4/1	D	D/1	D/2	D/3
PERE	[MJ]	8.87E+1	2.24E-1	3.36E+0	0.00E+0	3.69E+0	0.00E+0	1.25E-2	1.40E+1	1.43E+1	4.01E-1	-9.89E-2	0.00E+0	-1.17E+0	-2.64E-1
PERM	[MJ]	1.37E+1	0.00E+0	-2.60E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	-1.34E+1	-1.34E+1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
PERT	[MJ]	1.02E+2	2.24E-1	3.10E+0	0.00E+0	3.69E+0	0.00E+0	1.25E-2	5.80E-1	8.61E-1	4.01E-1	-9.89E-2	0.00E+0	-1.17E+0	-2.64E-1
PENRE	[MJ]	8.27E+1	3.95E+0	3.35E+0	0.00E+0	5.90E+0	0.00E+0	2.20E-1	1.11E+1	1.21E+1	4.87E+0	-3.62E-1	0.00E+0	-4.37E+0	-1.94E+1
PENRM	[MJ]	7.87E+0	0.00E+0	-3.96E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	-7.48E+0	-7.48E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
PENRT	[MJ]	9.05E+1	3.95E+0	2.96E+0	0.00E+0	5.90E+0	0.00E+0	2.20E-1	3.60E+0	4.60E+0	4.87E+0	-3.62E-1	0.00E+0	-4.37E+0	-1.94E+1
SM	[kg]	4.12E+0	0.00E+0	1.24E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.50E-1
RSF	[MJ]	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
NRSF	[MJ]	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
FW	[m^3]	4.87E-1	2.53E-4	1.53E-2	0.00E+0	3.34E-3	0.00E+0	1.41E-5	1.95E-2	1.97E-2	5.71E-5	-9.45E-5	0.00E+0	-1.12E-3	-1.85E-3

Caption	PERE = Use of renewable primary energy excluding renewable primary energy resources used as raw materials; PERM = Use of renewable primary energy resources used as raw materials; PERT = Total use of renewable primary energy resources; PENRE = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials; PENRM = Use of non-renewable primary energy resources used as raw materials; PENRT = Total use of non-renewable primary energy resources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Use of net fresh water

RESULTS OF THE LCA – WASTE CATEGORIES AND OUTPUT FLOWS according to EN 15804+A2: 1 m² floor covering

Indicator	Unit	A1-A3	A4	A5	B1	B2	C1	C2	C3/2	C3/3	C4/1	D	D/1	D/2	D/3
HWD	[kg]	4.24E-3	1.89E-11	1.27E-4	0.00E+0	4.19E-5	0.00E+0	1.05E-12	5.56E-10	5.97E-10	7.51E-10	-4.91E-11	0.00E+0	-5.97E-10	-1.62E-10
NHWD	[kg]	7.03E-1	5.66E-4	5.45E-2	0.00E+0	7.30E-3	0.00E+0	3.15E-5	1.11E+0	1.11E+0	4.82E+0	-1.83E-4	0.00E+0	-2.18E-3	-9.83E-2
RWD	[kg]	3.02E-3	4.86E-6	9.47E-5	0.00E+0	3.76E-4	0.00E+0	2.71E-7	1.25E-4	1.98E-4	5.99E-5	-2.84E-5	0.00E+0	-3.35E-4	-5.87E-5
CRU	[kg]	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
MFR	[kg]	0.00E+0	0.00E+0	1.21E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.25E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
MER	[kg]	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
EEE	[MJ]	0.00E+0	0.00E+0	3.33E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	9.04E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
EET	[MJ]	0.00E+0	0.00E+0	6.09E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.67E+1	7.94E+1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0

Caption	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: 1 m² floor covering

Indicator	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]	2.07E-7	1.01E-8	7.38E-9	0.00E+0	6.84E-8	0.00E+0	5.64E-10	2.74E-8	2.93E-8	9.78E-9	-2.31E-10	0.00E+0	0.00E+0	-9.95E-9
IRP	[kBq U235-Eq.]	4.90E-1	7.12E-4	1.53E-2	0.00E+0	6.78E-2	0.00E+0	3.96E-5	1.91E-2	3.14E-2	8.84E-3	-4.80E-3	0.00E+0	0.00E+0	-7.19E-3
ETP-fw	[CTUe]	1.07E+2	2.73E+0	3.35E+0	3.60E-3	2.69E+0	0.00E+0	1.52E-1	1.67E+0	2.25E+0	4.77E+0	-7.91E-2	0.00E+0	0.00E+0	-3.56E+0
HTP-c	[CTUh]	2.96E-9	5.53E-11	9.33E-11	0.00E+0	6.21E-10	0.00E+0	3.07E-12	8.39E-11	9.73E-11	2.14E-10	-3.65E-12	0.00E+0	0.00E+0	-4.93E-11
HTP-nc	[CTUh]	8.10E-8	3.28E-9	2.71E-9	2.60E-11	9.46E-9	0.00E+0	1.82E-10	5.44E-9	6.10E-9	1.79E-8	-1.40E-10	0.00E+0	0.00E+0	-3.13E-9
SQP	[-]	ND	ND	ND	ND	ND	0.00E+0	6.11E-2	6.49E-1	9.33E-1	2.84E-1	ND	ND	ND	ND

Caption	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 ionizingradiation 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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