ENVIRONMENTAL PRODUCT DECLARATION

as per *ISO 14025* and *EN 15804+A1*

Owner of the Declaration	modulyss®
Programme holder	Institut Bauen und Umwelt e.V. (IBU)
Publisher	Institut Bauen und Umwelt e.V. (IBU)
Declaration number	EPD-MOD-20220012-CBC1-EN
Issue date	04.02.2022
Valid to	03.02.2027

Tufted carpet tiles
with a total pile weight of 690 g/m²,
a pile material of 100% polyamide 6,
ecoBack or comfortBack^{eco} backing

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ECO PLATFORM EPD EN 15804 VERIFIED

General Information

modulyss®

Tufted carpet tiles
total pile weight 690 g/m²
100% PA 6, ecoBack or comfortBack^{eco} backing

Programme holder
IBU – Institut Bauen und Umwelt e.V.
Panoramastr. 1
10178 Berlin
Germany

Owner of the declaration
modulyss
Zevensterrestraat 21
9240 Zele
Belgium

Declaration number
EPD-MOD-20220012-CBC1-EN

Declared product / declared unit
1 m² tufted carpet tiles with a surface pile of 100% virgin PA 6 and an ecoBack or comfortBack^{eco} backing.

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 modular carpet tiles with ecoBack or comfortBack^{eco}, a pile material of PA 6 with a total pile weight of 690 g/m². The products are produced in Zele, Belgium
The declaration is only valid in conjunction with a valid *GUT-PRODIS* license of the product.

Issue date
04.02.2022

Valid to
03.02.2027

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+A1*. 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 14025:2010*
☐ 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.))

Angela Schindler
(Independent verifier)

Product

Product description/Product definition
Tufted carpet tiles having a surface pile of polyamide 6 and an ecoBack or comfortBack^{eco} backing.
The colour of the carpet is generated either by solution dyed yarn or aqueous dyeing methods.
The total recycled content amounts to 41% with a total pile weight of 690 g/m² and a comfortBack^{eco} backing and 38% with a total pile weight of 690 g/m² and an ecoBack backing.
For the placing on the market of the 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 *DIN 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
According to the use class as defined in *EN 1307* the products can be used in professional areas. The use class can be found on the technical data sheet of the product.

Technical Data

Constructional data

Name	Value	Unit
Type of manufacture	Tufted tiles, solution dyed yarn or aqueous dyeing methods	-
Product Form	Tiles 50 cm x 50 cm	-

Secondary backing	ecoBack or comfortBackeco	-
Yarn type	polyamide 6	-
Total pile weight	690	g/m²
Total carpet weight	4390	g/m²

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 (www.modulyss.com).

Base materials/Ancillary materials

Name	Value	Unit
Polyamide 6	15,7	%
Polyester	12,3	%
Polypropylene	0,7	%
Limestone	37,4	%
Aluminiumhydroxide	11,5	%
SBR-latex	11,2	%
Polyolefin	10,1	%
Glass fibre	0,3	%
Additives	0,9	%

This product contains substances listed in the *ECHA candidate list* (16.01.2020) or other carcinogenic, mutagenic and reprotoxic (CMR) substances in categories 1A or 1B which are not on the candidate list exceeding 0.1 percentage by mass: no
The products are registered in the *GUT-PRODIS* Information System. The *PRODIS* system ensures the compliance with limitations of various chemicals and Volatile Organic Compound (VOC)-emissions and a ban on the use of all substances that are listed as 'Substances of Very High Concern' (SVHC) under *REACH*.

Reference service life
A calculation of the reference service life according to *ISO 15686* is not possible.
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 minimum service life of 10 years can be assumed, technical service life can be considerably longer.

LCA: Calculation rules

Declared Unit

Name	Value	Unit
Declared unit	1	m²
Conversion factor to 1 kg	4.39	kg/m²

The declared unit refers to 1 m² produced textile floor covering. Output of module A5 'Assembly' is 1 m² installed textile floor covering.

System boundary

Type of EPD: Cradle-to-grave

System boundaries of modules A, B, C, D:

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.

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.
Preparing 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 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 (see annexe, chapter 'General information on use stage').

B3 - B7:
The modules are not relevant and therefore not declared.

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:
D-A5: Benefits for generated energy due to incineration of packaging and installation waste (incineration plant with R1 > 0.6),
D-1: Benefits for generated energy due to landfill disposal of carpet waste at the end-of-life,
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 2021-1*. Remaining data gaps are covered by the *ecoinvent 3.6* database 2019

LCA: Scenarios and additional technical information

The following information refer to the declared modules and are the basis for calculations or can be used for further calculations. The indicated values refer to the declared functional unit of all products with a total pile weight of 500 g/m².

Transport to the construction site (A4)

Name	Value	Unit
Litres of fuel (truck, EURO 0-6 mix)	0.01	l/100km
Transport distance	700	km
Capacity utilisation (including empty runs)	55	%

Installation in the building (A5)

Name	Value	Unit
Material loss	0.13	kg

Polyethene packaging waste and installation waste are considered to be incinerated in a municipal waste incineration plant. Cardboard packaging waste is considered 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 used in commercial areas 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. The effects of Module B2 need to be calculated on the basis of this useful life in order to obtain the overall environmental impacts.

Name	Value	Unit
Maintenance cycle (wet cleaning)	1.5	1/year
Maintenance cycle (vacuum cleaning)	208	1/year
Water consumption (wet cleaning)	0.004	m³
Cleaning agent (wet cleaning)	0.09	kg
Electricity consumption	0.314	kWh

Further information on cleaning and maintenance see www.modulyss.com

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% recycling 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)	4.39	kg
Collected separately (scenario 3)	4.39	kg
Landfilling (scenario 1)	4.39	kg
Energy recovery (scenario 2)	4.39	kg
Energy recovery (scenario 3)	2.234	kg
Recycling (scenario 3)	2.156	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)
VDZ e.V.
The organic material of the carpet is used as

secondary fuel in a cement kiln. It mainly substitutes for lignite (61.9%), hard coal (26.8%) and petrol coke (11.3%).
The inorganic material is substantially integrated in the cement clinker and substitutes for original material input.

LCA: Results

The LCA results refer to a declared product with a total pile weight of 690 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 module D/A5. The calculations are based on the CML characterization factors (version August 2016).

DESCRIPTION OF THE SYSTEM BOUNDARY (X = INCLUDED IN LCA; MND = MODULE 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	MND	MND	MND	X	X	X	X

RESULTS OF THE LCA - ENVIRONMENTAL IMPACT according to EN 15804+A1: 1 m² floorcovering

Parameter	Unit	A1-A3	A4	A5	B1	B2	C2	C3/2	C3/3	C4/1	D	D/1	D/2	D/3
GWP	[kg CO_2-Eq.]	1.22E+1	2.63E-1	7.64E-1	0.00E+0	2.91E-1	1.45E-2	5.54E+0	5.60E+0	2.98E-1	-5.21E-2	0.00E+0	-1.48E+0	-4.89E-1
ODP	[kg CFC11-Eq.]	2.78E-9	0.00E+0	8.30E-11	0.00E+0	1.21E-8	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
AP	[kg SO_2-Eq.]	1.96E-2	1.09E-3	7.09E-4	0.00E+0	1.14E-3	6.02E-5	2.81E-3	3.01E-3	7.73E-4	-6.06E-5	0.00E+0	-1.72E-3	-1.62E-3
EP	[kg $(PO_4)^{3-}$-Eq.]	3.24E-3	2.77E-4	1.27E-4	0.00E+0	3.17E-4	1.54E-5	6.75E-4	7.19E-4	8.39E-4	-8.31E-6	0.00E+0	-2.36E-4	-2.21E-4
POCP	[kg ethene-Eq.]	2.13E-3	-4.65E-4	5.43E-5	6.29E-5	1.47E-4	-2.58E-5	1.76E-4	1.15E-4	6.96E-5	-5.55E-6	0.00E+0	-1.58E-4	-1.67E-4
ADPE	[kg Sb-Eq.]	7.08E-6	2.33E-8	2.19E-7	0.00E+0	4.43E-6	1.30E-9	1.91E-7	2.03E-7	5.72E-8	-9.82E-9	0.00E+0	-2.79E-7	-2.94E-7
ADPF	[MJ]	2.51E+2	3.58E+0	7.72E+0	0.00E+0	6.77E+0	1.99E-1	2.80E+0	3.56E+0	4.45E+0	-7.48E-1	0.00E+0	-2.13E+1	-5.19E+1

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

RESULTS OF THE LCA - INDICATORS TO DESCRIBE RESOURCE USE according to EN 15804+A1: 1 m² floorcovering

Parameter	Unit	A1-A3	A4	A5	B1	B2	C2	C3/2	C3/3	C4/1	D	D/1	D/2	D/3
PERE	[MJ]	2.37E+1	2.00E-1	1.14E+0	0.00E+0	1.24E+0	1.11E-2	4.86E-1	7.12E-1	3.33E-1	-2.06E-1	0.00E+0	-5.87E+0	-6.28E-1
PERM	[MJ]	3.90E-1	0.00E+0	-3.90E-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
PERT	[MJ]	2.41E+1	2.00E-1	7.44E-1	0.00E+0	1.24E+0	1.11E-2	4.86E-1	7.12E-1	3.33E-1	-2.06E-1	0.00E+0	-5.87E+0	-6.28E-1
PENRE	[MJ]	2.07E+2	3.59E+0	8.35E+0	0.00E+0	7.86E+0	1.99E-1	5.92E+1	6.01E+1	4.59E+0	-9.15E-1	0.00E+0	-2.61E+1	-5.23E+1
PENRM	[MJ]	5.71E+1	0.00E+0	-2.15E-1	0.00E+0	0.00E+0	0.00E+0	-5.62E+1	-5.62E+1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
PENRT	[MJ]	2.64E+2	3.59E+0	8.13E+0	0.00E+0	7.86E+0	1.99E-1	3.09E+0	4.02E+0	4.59E+0	-9.15E-1	0.00E+0	-2.61E+1	-5.23E+1
SM	[kg]	5.37E-1	0.00E+0	1.61E-2	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	4.80E-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
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
FW	[m³]	4.40E-2	2.29E-4	1.89E-3	0.00E+0	4.13E-3	1.27E-5	1.77E-2	1.79E-2	4.23E-5	-2.02E-4	0.00E+0	-5.73E-3	-4.68E-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+A1: 1 m² floorcovering

Parameter	Unit	A1-A3	A4	A5	B1	B2	C2	C3/2	C3/3	C4/1	D	D/1	D/2	D/3
HWD	[kg]	9.80E-8	1.81E-10	3.31E-9	0.00E+0	5.90E-10	1.00E-11	1.23E-8	1.25E-8	8.25E-10	-2.05E-10	0.00E+0	-5.85E-9	-2.56E-9
NHWD	[kg]	4.24E-1	5.33E-4	4.74E-2	0.00E+0	5.62E-3	2.96E-5	1.15E+0	1.15E+0	4.37E+0	-4.29E-4	0.00E+0	-1.22E-2	-2.39E-1
RWD	[kg]	5.16E-3	4.34E-6	1.58E-4	0.00E+0	3.32E-4	2.40E-7	1.18E-4	1.82E-4	5.33E-5	-6.64E-5	0.00E+0	-1.89E-3	-1.61E-4
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
MFR	[kg]	2.24E-2	0.00E+0	1.30E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.26E+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
EEE	[MJ]	0.00E+0	0.00E+0	2.53E-1	0.00E+0	0.00E+0	0.00E+0	7.31E+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	4.67E-1	0.00E+0	0.00E+0	0.00E+0	1.36E+1	0.00E+0	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

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Publisher
Institut Bauen und Umwelt e.V.
Panoramastr. 1
10178 Berlin
Germany

Tel +49 (0)30 3087748- 0
Fax +49 (0)30 3087748- 29
Mail info@ibu-epd.com
Web **www.ibu-epd.com**

Programme holder
Institut Bauen und Umwelt e.V.
Panoramastr 1
10178 Berlin
Germany

Tel +49 (0)30 - 3087748- 0
Fax +49 (0)30 – 3087748 - 29
Mail info@ibu-epd.com
Web **www.ibu-epd.com**

Author of the Life Cycle Assessment
Gemeinschaft umweltfreundlicher Teppichboden (GUT) e.V.
Schönebergstraße 2
52068 Aachen
Germany

Tel +49 (0)241 96843 410
Fax +49 (0)241 96843 400
Mail mail@gut-ev.de
Web **www.gut-ev.org**

Owner of the Declaration
modulyss
Zevensterrestraat 21
9240 Zele
Belgium

Tel +32 (0)52-80-80-80
Fax +32 (0)52-80-82-00
Mail info@modulyss.com
Web **www.modulyss.com**