

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-20220014-CBC1-EN
Issue date	04.02.2022
Valid to	03.02.2027

Tufted carpet tiles

with a total pile weight of 740 g/m²,
a pile material of 100% polyamide 6,
ecoBack or comfortBack^{eco} backing

modulyss®

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General Information

modulyss®

Programme holder

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

Declaration number

EPD-MOD-20220014-CBC1-EN

This declaration is based on the product category rules:

Floor coverings, 02/2018
(PCR checked and approved by the SVR)

Issue date

04.02.2022

Valid to

03.02.2027

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

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(Managing Director Institut Bauen und Umwelt e.V.)

Tufted carpet tiles

total pile weight 740 g/m²
100% PA 6, ecoBack or
comfortBack^{eco} backing

Owner of the declaration

modulyss
Zevensterrestraat 21
9240 Zele
Belgium

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.

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 740 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.

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

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 40% with a total
pile weight of 740 g/m² and a comfortBack^{eco} backing
and 37% with a total pile weight of 740 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	740	g/m ²
Total carpet weight	4440	g/m ²

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	16,7	%
Polyester	12,1	%
Polypropylene	0,7	%
Limestone	37,0	%
Aluminiumhydroxide	11,4	%
SBR-latex	11,1	%
Polyolefin	9,9	%
Glass fibre	0,3	%

LCA: Calculation rules

Declared Unit

Name	Value	Unit
Declared unit	1	m ²
Conversion factor to 1 kg	4.44	kg/m ²

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

Additives	0,9	%
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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.

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.

Electricity consumption	0.314	kWh
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Further information on cleaning and maintenance see www.modulyss.com

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	%

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

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.

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

$$\begin{aligned} \text{EOL-impact} &= x\% \text{ impact (Scenario 1)} \\ &+ y\% \text{ impact (Scenario 2)} \\ &+ z\% \text{ impact (Scenario 3)} \\ &\text{with } x\% + y\% + z\% = 100\% \end{aligned}$$

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
Collected as mixed construction waste (scenario 1 and 2)	4.44	kg
Collected separately (scenario 3)	4.44	kg
Landfilling (scenario 1)	4.44	kg
Energy recovery (scenario 2)	4.44	kg
Energy recovery (scenario 3)	2.284	kg
Recycling (scenario 3)	2.156	kg

Name	Value	Unit
Maintenance cycle (wet cleaning)	1.5	1/year
Maintenance cycle (vacuum cleaning)	208	1/year
Water consumption (wet cleaning)	0.004	m ³
Cleaning agent (wet cleaning)	0.09	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 740 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.]	1.27E+1	2.66E-1	7.81E-1	0.00E+0	2.91E-1	1.47E-2	5.61E+0	5.67E+0	3.02E-1	-5.29E-2	0.00E+0	-1.51E+0	-4.98E-1
ODP	[kg CFC11-Eq.]	2.82E-9	0.00E+0	8.50E-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.]	2.03E-2	1.10E-3	7.34E-4	0.00E+0	1.14E-3	6.09E-5	2.95E-3	3.15E-3	7.82E-4	-6.15E-5	0.00E+0	-1.75E-3	-1.65E-3
EP	[kg (PO ₄) ³ -Eq.]	3.36E-3	2.80E-4	1.31E-4	0.00E+0	3.17E-4	1.55E-5	7.10E-4	7.55E-4	8.49E-4	-8.44E-6	0.00E+0	-2.41E-4	-2.25E-4
POCP	[kg ethene-Eq.]	2.24E-3	-4.71E-4	5.77E-5	6.29E-5	1.47E-4	-2.61E-5	1.84E-4	1.22E-4	7.04E-5	-5.63E-6	0.00E+0	-1.61E-4	-1.70E-4
ADPE	[kg Sb-Eq.]	7.33E-6	2.35E-8	2.27E-7	0.00E+0	4.43E-6	1.31E-9	1.92E-7	2.04E-7	5.79E-8	-9.97E-9	0.00E+0	-2.84E-7	-2.95E-7
ADPF	[MJ]	2.60E+2	3.62E+0	7.99E+0	0.00E+0	6.77E+0	2.01E-1	2.85E+0	3.62E+0	4.50E+0	-7.60E-1	0.00E+0	-2.17E+1	-5.34E+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]	2.43E+1	2.03E-1	1.16E+0	0.00E+0	1.24E+0	1.12E-2	4.91E-1	7.19E-1	3.37E-1	-2.10E-1	0.00E+0	-5.98E+0	-6.37E-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]	2.47E+1	2.03E-1	7.62E-1	0.00E+0	1.24E+0	1.12E-2	4.91E-1	7.19E-1	3.37E-1	-2.10E-1	0.00E+0	-5.98E+0	-6.37E-1
PENRE	[MJ]	2.14E+2	3.63E+0	8.63E+0	0.00E+0	7.86E+0	2.01E-1	6.09E+1	6.18E+1	4.64E+0	-9.30E-1	0.00E+0	-2.66E+1	-5.38E+1
PENRM	[MJ]	5.89E+1	0.00E+0	-2.15E-1	0.00E+0	0.00E+0	0.00E+0	-5.78E+1	-5.78E+1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
PENRT	[MJ]	2.73E+2	3.63E+0	8.42E+0	0.00E+0	7.86E+0	2.01E-1	3.14E+0	4.08E+0	4.64E+0	-9.30E-1	0.00E+0	-2.66E+1	-5.38E+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	[m ³]	4.52E-2	2.31E-4	1.93E-3	0.00E+0	4.13E-3	1.29E-5	1.79E-2	1.81E-2	4.28E-5	-2.05E-4	0.00E+0	-5.83E-3	-4.80E-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]	1.00E-7	1.83E-10	3.39E-9	0.00E+0	5.90E-10	1.00E-11	1.24E-8	1.25E-8	8.34E-10	-2.09E-10	0.00E+0	-5.96E-9	-2.57E-9
NHWD	[kg]	4.28E-1	5.39E-4	4.76E-2	0.00E+0	5.62E-3	2.99E-5	1.15E+0	1.15E+0	4.42E+0	-4.36E-4	0.00E+0	-1.25E-2	-2.39E-1
RWD	[kg]	5.31E-3	4.39E-6	1.63E-4	0.00E+0	3.32E-4	2.43E-7	1.19E-4	1.84E-4	5.39E-5	-6.75E-5	0.00E+0	-1.93E-3	-1.64E-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]	2.22E-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	2.56E-1	0.00E+0	0.00E+0	0.00E+0	7.43E+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	4.74E-1	0.00E+0	0.00E+0	0.00E+0	1.38E+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; EEE = Exported thermal energy

References

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DIN EN 1307: 2014+A1:2016: Textile floor coverings - Classification

EN 13501-1

DIN EN 13501-1:2010-01: Fire classification of construction products and building elements - Part 1: Classification using data from reaction to fire tests

EN 14041

DIN EN 14041: 2018-05: Resilient, textile and laminate floor coverings - Essential characteristics

EN 15804

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EN 16810

DIN EN 16810: 2017-08: Resilient, textile and laminate floor coverings – Environmental product declarations – Product category rules

ISO 10874

DIN EN ISO 10874: 2012-04: Resilient, textile and laminate floor coverings - Classification

ISO 14025

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

ISO 15686

ISO 15686: Buildings and constructed assets - Service life planning

ISO 15686-1: 2011-05: Part 1: General principles and framework

ISO 15686-2: 2012-05: Part 2: Service life prediction procedures

ISO 15686-7: 2006-03: Part 7: Performance evaluation for feedback of service life data from practice

ISO 15686-8: 2008-06: Part 8: Reference service life and service-life estimation

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CML characterization factors

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ECHA candidate list

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ecoinvent 3.6

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GaBi database 2021-1

GaBi Software-System and Database for Life Cycle Engineering, thinkstep AG, Leinfelden-Echterdingen, 2021-1

IBU 2021

IBU (2016): General Programme Instructions for the Preparation of EPDs at the Institut Bauen und Umwelt e.V., Version 2.0 Institut Bauen und Umwelt e.V., Berlin, www.ibu-epd.de

PCR Part A

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PCR Part B

Product Category Rules for Construction Products from the range of Environmental Product Declarations of Institut Bauen und Umwelt (IBU), Part B: Requirements on the EPD for floor coverings, V1.2, Berlin: Institut Bauen und Umwelt e.V. (IBU), February 2018

PRODIS

Product Information System (PRODIS) of the European Carpet Industry, Gemeinschaft umweltfreundlicher Teppichboden e.V (GUT) and European Carpet and Rug Association (ECRA), <http://www.pro-dis.info>

REACH

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). Last update: 25.03.2014 (Status: 27.06.2018)

VDZ e.V.

Association of German Cement Works, Ed. Environmental Data of the German Cement Industry 2018

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