ENVIRONMENTAL PRODUCT DECLARATION

as per ISO 14025 and EN 15804

Owner of the Declaration

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

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

Declaration number EPD-GUT-20130090-CCA1-EN

Issue date 09.08.2013 Valid to 08.08.2018

L480

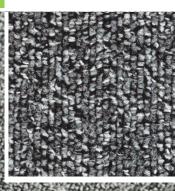
Tufted carpet tiles with recycled pile material

BALSAN



www.bau-umwelt.com / https://epd-online.com







General Information

Balsan

Programme holder

IBU - Institut Bauen und Umwelt e.V. Rheinufer 108 D-53639 Königswinter

Declaration number

EPD-GUT-20130090-CCA1-EN

This Declaration is based on the Product Category Rules:

Floor coverings, 07-2012

(PCR tested and approved by the independent expert committee)

Mennanjes

Issue date

09.08.2013

Valid to

08.08.2018

Prof. Dr.-Ing. Horst J. Bossenmayer (President of Institut Bauen und Umwelt e.V.)

Prof. Dr.-Ing. Hans-Wolf Reinhardt (Chairman of SVA)

L480

Tufted carpet tiles with recycled pile material

Owner of the Declaration

Balsan 2 Corbilly 36330 Arthon France

Declared product / Declared unit

L480 - 1 m² tufted carpet tiles with recycled pile material and a heavy backing.

Scope

The declaration applies for the tufted carpet tiles "L480", produced in the Balsan manufacturing sites Arthon (tufting and precoating) and Neuvy-Saint-Sépulchre, France (back coating).

It is only valid in conjunction with a valid PRODIS licence.

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.

Verification

The CEN Norm EN 15804 serves as the core PCR Independent verification of the declaration and data according to ISO 14025

internally

externally

Edrole

Dr. Eva Schmincke (Independent tester appointed by SVA)

Product

Product description

Tufted loop pile carpet tiles with solution dyed polyamide 6 fibres (100% recycled content), a polyester primary backing and a heavy backing based on bitumen with a fibre glass reinforcement and a polyester covering fleece.

The recycled content (post- and pre-consumer) out of total weight account for 11,9 %.

According to EN 1307 the carpet tiles fulfill the requirements for luxury class LC1.

Application

According to the use class as defined in EN 1307 the products can be used in all professional area which require class 33 or less.

Technical Data

Constructional data

according to EN 1307

Name	Value	Unit
Product Form	Tiles	-
Type of manufacture	Tufted, loop pile	-
Yarn type	PA 6, 100% recycled	-
Secondary backing	Heavy backing, bitumen based	-
Total carpet weight	4040	g/m²
Surface pile weight	290	g/m²
Total thickness	5.9	mm
Surface pile thickness	2.6	mm
Number of loops	1936	1/dm ²

Additional product properties according to EN 1307 can be found on the "Product Information System (PRODIS)", www.pro-dis.info.

PRODIS registration number: BE4ABD37



Base materials / Ancillary materials

Name	Value	Unit
Polyamide 6	11,9	%
Polyester	3,9	%
Limestone	62,3	%
SBR-latex	4,1	%
Bitumen	16,7	%
Glass fibre	0,9	%
Additives	0,2	%

Reference service life

The service life of textile floorcoverings strongly depends on the correct installation taking into account the declared use classification and the adherence of cleaning and maintenance instructions.

A minimum service life of 10 years could be assumed, technical service life can be considerably longer.

LCA: Calculation rules

Declared Unit

Name	Value	Unit
Declared unit	1	m ²
Conversion factor to 1 kg	0.25	-
Mass reference	4,04	kg/m²

System boundary

Type of the EPD: Cradle to grave

System boundaries of the 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 of residual waste (except radioactive waste). Credits for electricity and steam from the incineration of production waste are aggregated.

A4 Transport:

Transport of the packed textile floorcovering from manufacturing gate to the place of installation.

A5 Installation:

Installation of the textile floorcovering, production and transport of auxiliary material, waste processing up to the landfill of residual waste (except radioactive waste), the production of the amount of carpet that occurs as installation waste incl. its transport to the place of installation.

Credits for electricity and steam from the incineration of packaging and installation waste leave the product system.

B1 Use:

Indoor emissions during the use stage. Due to known VOC-decay curves of the product after the first year no product related VOC-emissions are relevant.

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 with the assumed service life of the floor covering in the building considered.

B3 - B7[.]

The modules are not relevant and therefore not declared.

C1 De-construction:

De-construction of the floorcovering is made by handcraft and causes no additional impacts.

C2 Transport:

Transport of the carpet waste to landfill, to the municipal waste incineration (MWI) or to the waste collection for recycling.

C3 Waste processing:

C3-0, C3-1: Landfill and waste incineration need no waste processing.

C3-2: Collection of the carpet waste, waste processing (granulating).

C4 Disposal

C4-0, C4-1: Impacts from landfill or from waste incineration (credits leave the system boundaries), C4-2: The processed carpet waste leaves the system and need no disposal.

D Recycling potential:

D-0, D-1: Energy credits from landfill and from waste incineration (processing with < 60% efficiency), D-2: Transport from the reprocessing plant to the cement plant, substitution of material and fuel input in the cement kiln (substantial and energetic credits).

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.



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. All indicated values refer to the declared functional unit.

Transport to the construction site (A4)

Name	Value	Unit
Litres of fuel (truck, EURO 0-5 mix)	29.4	l/100km
Transport distance	700	km
Capacity utilisation (including empty runs)	85	%
Gross density of products transported	685	kg/m³

Installation in the building (A5)

Name	Value	Unit
Auxiliary (fixing agent)	0.2	kg
Material loss	0.12	kg

Cardboard waste (packaging material) leaves the system for recycling. PE-foil (packaging material) and installation waste are considered to be incinerated in a municipal waste incineration plant.

Maintenance (B2)

Name	Value	Unit
Maintenance cycle (wet cleaning)	1,5	1/year
Maintenance cycle (vacuum cleaning)	208	1/year
Water consumption (wet cleaning)	0.003	m³
Cleaning agent (wet cleaning)	0,06	kg
Electricity consumption	0.314	kWh

Further information on cleaning and maintenance see www.balsan.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 0: 100% landfill

Scenario 1: 100% municipal waste incineration (MWI) Scenario 2: 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 0)

+ y% impact (Scenario 1)

+ z% impact (Scenario 2)

Name	Value	Unit
Collected as mixed construction waste (scenario 0 and 1)	4.04	kg
Collected separately (scenario 2)	4.04	kg
Landfilling (scenario 0)	4.04	kg
Energy recovery (scenario 1)	4.04	kg
Energy recovery (scenario 2)	1,48	kg
Recycling (scenario 2)	2.56	ka

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

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

Recycling in the cement industry (scenario 2) The organic material of the carpet is used as secondary fuel in a cement kiln. It substitutes mainly lignite (62,7%), hard coal (27,3%) and petrol coke (10,0%).

The inorganic material is substantially integrated in the cement clinker and substitutes original material input.



LCA: Results

Information on not declared modules:

The modules B3 - B7 are not relevant during the service life of the carpet and are therefore not declared. Module C1 causes no additional impact (see "LCA: Calculation rules", "C1 De-construction") and is therefore not declared.

Module C2 represents the transport for scenario 0, 1 and 2.

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Raw material supply	Transport	Manufacturing	Transport from the gate to the site	Assembly	Nse	Maintenance	Repair	Replacement ¹⁾	Refurbishment ¹⁾	Operational energy use	Operational water use	De-construction demolition	Transport	Waste processing	Disposal	Reuse- Recovery-	Recycling- potential	
A1	A2	А3	A4	A5	B1	B2	В3	B4	B5	В6	В7	C1	C2	СЗ	C4	[)	
Х	Х	Х	Х	Х	Х	Х	MND	MND	MND	MND	MND	MND	Х	Х	Х)	Κ	
RESUL	LTS (OF TH	HE LC	A - EN	VIRO	NMENT	TAL II	IPACT	: 1 m²	floorc	overir	ıg						
Param eter	Ur	nit	A1 - A3	A4	A5	B1	B2	C2	СЗ	C3/1	C3/2	C4	C4/1	C4/2	D	D/1	D/2	
GWP	[kg CC	- 11	6.29	0.168	0.584	0.003	0.29	0.009	0	0	0.027	9.02	7.63	0	-0.228	-2.35	-0.335	
		11-Eq.]							0.0E+0				6.6E-10		-2.1E-10			
AP	[kg SO					3 0.0E+0			0.0E+0		1.28E-4			0.0E+0				
	kg (PO₄ [kg Ethe	₄) ³⁻ - Eq.]							0.0E+0 0.0E+0			5.19E-3 1.33E-3			-5.69E-5 -6.36E-5			
ADPE	[kg St		2.7E-4						0.0E+0			4.19E-8						
ADPF	[M		140	2.33	8.27	0.02.0	6.55	0.131	0.02.0	0.02.0	0.476	3.09	6.55	0.02.0	-4.01	-39.1	-56.5	
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 - RESOURCE USE: 1 m² floorcovering																		
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	ter U								rcover	ring				C4/2	D -0.669	D/1 -1.57	D/2 -0.156	
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PERE PERM PERT	ter U	Jnit A	14 0 14	0.091 0 0.091	A5 1.93 0 1.93	B1 0 0 0	0.5 0 0.5	0.005 0 0.005	C3 0 0 0 0	C3/1 0 0 0 0	C3/2 0.079 0 0.079	C4 0.149 0 0.149	C4/1 0.294 0 0.294	0 0 0	-0.669 0 -0.669	-1.57 0 -1.57	-0.156 0 -0.156	
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Paramet PERE PERM PERT PENRE PENRI SM RSF NRSF FW Caption RESULT 1 m² fl	ter U	Jnit J MJ MJ MJ MJ MJ MJ MJ MJ MJ	14 0 14 88.111 51.889 140 0.514 0.514 1.0E+1	A4 0.091 0 0.091 2.33 0 2.33 0 1.47E-5 1.54E-4 9.1E-3 enewabonergy real; RSF	A5 1.93 0 1.93 0 1.93 8.27 0 8.27 0.013 1.16E-4 1.21E-3 7.77E-1 le primal sources energy e esources = Use of	B1 0 0 0 0 0 0 0 0 0 0.0E+0 0.0E+0 0.0E+0 ry energy used as frenewal	0.5 0 0.5 6.55 0 6.55 0 2.03E-4 2.13E-3 8.49E-1 y excluder raw mannon rens raw man r	0.005 0 0.005 0.131 0 0.131 0 8.25E-7 8.64E-6 5.1E-4 ing renewterials; I endary fu	C3 0 0 0 0 0 0 0 0 0 0.0E+0 0.0E+0 0.0E+0 FERT = FERT = STERT = STERT = C3 C3 0	C3/1 0 0 0 0 0 0 0 0 0.0E+0 0.0E+0 0.0E+0 F = Use r C3/1 0	0.079 0.079 0.477 0 0.477 0 9.73E-6 1.02E-4 1.03E-1 ergy resources see of not of non r	0.149 0 0.149 3.09 0 3.09 0 2.47E-3 5.9E-3 1.14E-1 ourrees used as a renewale enewable pri	C4/1 0.294 0 0.294 6.55 0 6.55 0 1.79E-4 1.86E-3 3.11E-1 sed as r. mary en raw ma ble prime e second	0 0 0 0 0 0 0 0.0E+0 0.0E+0 0.0E+0 aw mate ergy res terials; F lary ener dary fuel	-0.669 0 -0.669 4.02 0 -4.02 0 -8.21E-5 -8.6E-4 -8.71E-1 rials; PE ources; I PENRM = gy resot s; FW =	-1.57 0 -1.57 -39.1 0 -39.1 0 -4.53E-4 4.75E-3 -2.04E+0 RM = Us PENRE : Use of n Use of n	-0.156 0 -0.156 -56.5 0 -56.5 0 -1.95E-5 -2.0E-4 -2.72E-1 se of = Use of non M = Use eet fresh	
Paramet PERE PERM PERT PENRE PENRI SM RSF NRSF FW Caption RESULT 1 m² fl Paramet HWD NHWD	ter U	Jnit J MJ MJ MJ MJ MJ MJ MJ MJ MJ	14 0 14 88.111 51.889 140 0.514 .93E-3 1 2.02E-2 1 1.0E+1 Use of remary e ewable porimary e y material HE LC/ng 14 - A3 0.023 6.77E+0 0 14 14 15 16 16 16 16 16 16 16 16 16 16 16 16 16	0.091 0 0.091 2.33 0 2.33 0 1.47E-5 1.54E-4 9.1E-3 energy real; RSF	A5 1.93 0 1.93 0 1.93 8.27 0 8.27 0.013 1.16E-4 1.21E-3 7.77E-1 le primal sources energy e esources = Use of Use o	B1 0 0 0 0 0 0 0 0 0 0 0.0E+0 0.0E+0 0.0E+0 FLOV B1 0 0.0E+0	0.5 0 0.5 6.55 0 6.55 0 2.03E-4 2.13E-3 8.49E-1 y excluder raw mannon rens raw man rens raw man rens raw man ble seconds of the second of t	0.005 0 0.005 0.131 0 0.131 0 8.25E-7 8.64E-6 5.1E-4 ing renew iterials; Fall and any fu	C3 0 0 0 0 0 0 0 0 0 0.0E+0 0.0E+0 0.0E+0 FERT = FIRMING PENRT = els; NRS wate STE C. C3 0 0.0E+0	C3/1 0 0 0 0 0 0 0 0 0.0E+0 0.0E+0 0.0E+0 F = Use r ATEG	0.079 0.079 0.077 0.0477 0 9.73E-6 1.02E-4 1.03E-1 ergy res of renes se of nor of non r ORIES C3/2 0 1.08E-1	0.149 0 0.149 3.09 0 3.09 0 2.47E-3 5.9E-3 1.14E-1 owarde pri used as a renewa enewable	C4/1 0.294 0 0.294 6.55 0 1.79E-4 1.86E-3 3.11E-1 seed as r. mary en able prime e second C4/1 0.539 7.39E-1	0 0 0 0 0 0 0 0.0E+0 0.0E+0 0.0E+0 aw mate ergy resterials; F hary enerdary fuel	-0.669 0 -0.669 4.02 0 -4.02 0 -8.21E-5 -8.6E-4 -8.71E-1 rials; PE ources; F PENRM = gy resous; FW =	-1.57 0 -1.57 -39.1 0 -39.1 0 -4.53E-4 -4.75E-3 -2.04E+0 RM = Us PENRE: = Use of n D/1 0 -2.14E+0	-0.156 0 -0.156 -56.5 0 -56.5 0 -1.95E-5 -2.0E-4 -2.72E-1 se of set fresh	
Paramete PERE PERM PERT PENRE PENRI PENRI SM RSF NRSF FW Caption RESUL 1 m² fl Paramete HWD NHWD RWD	ter U	Jnit J MJ MJ MJ MJ MJ MJ MJ MJ MJ	14 0 14 88.111 51.889 140 0.514 1.93E-3 1 1.0E+1 Use of rumary e ewable porimary e y material 14 L C / ng 14 - A3 0.023 5.77E+0 1.84E-3 5	0.091 0 0.091 2.33 0 2.33 0 1.47E-5 1.54E-4 9.1E-3 energy real; RSF	A5 1.93 0 1.93 0 1.93 8.27 0 8.27 0.013 1.16E-4 1.21E-3 7.77E-1 le prima le sources energy e esources = Use of	B1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.5 0.5 0.5 6.55 0 6.55 0 2.03E-4 2.13E-3 8.49E-1 y excluded a non ren s raw ma ble seconds. The seconds of the seconds. The seconds of the second of the secon	0.005 0 0.005 0.131 0 0.131 0 8.25E-7 8.64E-6 5.1E-4 ing renewable paterials; Indary further for the following further furthe	C3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	C3/1 0 0 0 0 0 0 0 0 0 0.0E+0 0.0E+0 0.0E+0 Total user strong response res	0.079 0.079 0.079 0.477 0 9.73E-6 1.02E-4 1.03E-1 ergy resources se of nor of non r	0.149 0 0.149 3.09 0 2.47E-3 5.9E-3 1.14E-1 0 wrable pri used as a renewal enewable C4 0 3.08E+0 5.67E-5	C4/1 0.294 0 0.294 6.55 0 1.79E-4 1.86E-3 3.11E-1 sed as r. mary en arble prime e second C4/1 0.539 7.39E-1 1.96E-4	0 0 0 0 0 0 0 0.0E+0 0.0E+0 0.0E+0 aw mate ergy resterials; F lary ener dary fuel	-0.669 0 -0.669 4.02 0 -4.02 0 -8.21E-5 -8.6E-4 -8.71E-1 rials; PE ources; F gy reso. s; FW = D 0 -9.09E-1 -5.91E-4	-1.57 0 -1.57 -39.1 0 -39.1 0 -4.53E-4 -4.75E-3 -2.04E+0 RM = Us PENRE: = Use of irrces; SN Use of n D/1 0 -2.14E+0 -1.38E-3	-0.156 0 -0.156 -56.5 0 -56.5 0 -1.95E-5 -2.0E-4 -2.72E-1 se of = Use of non M = Use et fresh	
Paramet PERE PERM PENTI PENRE PENRI SM RSF FW Caption RESULT 1 m² fl Paramet HWD NHWD CRU	ter U	Jnit J MJ MJ MJ MJ MJ MJ MJ MJ MJ	14 0 14 88.111 51.889 140 0.514 1.93E-3 12.02E-2 1 1.0E+1 Use of rimary e ewable porimary e y materia 14 L C/ng 14 - A3 0.023 6.77E+0 1.84E-3 0 0 14 1.84E-3 0 0 15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.091 0 0 0.091 2.33 0 2.33 0 1.47E-5 1.54E-4 9.1E-3 enewab nergy real; RSF	A5 1.93 0 1.93 8.27 0 8.27 0.013 1.16E-4 1.21E-3 7.77E-1 le prima esources energy e esources = Use of	B1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	9.5 0 0.5 0	C2 0.005 0 0.005 0.131 0 0.131 0 8.25E-7 8.64E-6 5.1E-4 ing renevaterials; Fewable paterials; Innidary fu C2 0 4.65E-4 1.81E-7 0	C3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	C3/1 0 0 0 0 0 0 0 0 0 0 0.0E+0 0.0E+0 0.0E+0 Total use energy re - Total use r ATEG	C3/2 0.079 0 0.079 0.477 0 0.477 0 9.73E-6 1.02E-4 1.03E-1 ergy resources se of nor of non r ORIES C3/2 0 1.08E-1 7.01E-5	0.149 0 0.149 3.09 0 3.09 0 3.09 0 2.47E-3 5.9E-3 1.14E-1 ources uswable pri used as an renewable cenewable	C4/1 0.294 0 0.294 6.55 0 1.79E-4 1.86E-3 3.11E-1 sed as r. may man ble prime e second C4/1 0.539 7.39E-1 1.96E-4 0	0 0 0 0 0 0 0 0.0E+0 0.0E+0 0.0E+0 aw mate ergy reseterials; F arary enerdary fuel	-0.669 0 -0.669 4.02 0 -4.02 0 -8.21E-5 -8.6E-4 -8.71E-1 rials; PEources; FENRM = gy resous; FW =	-1.57 0 -1.57 -39.1 0 -39.1 0 -4.53E-4 -4.75E-3 -2.04E+0 RM = Us PENRE: = Use of in D/1 0 -2.14E+0 -1.38E-3 0	-0.156 0 -0.156 -56.5 0 -56.5 0 -1.95E-5 -2.0E-4 -2.72E-1 se of = Use of non M = Use et fresh D/2 0 -4.42E+1 -9.34E-5	
Paramet PERE PERM PENRI PENRI PENRI SM RSF NRSF FW Caption RESUL 1 m² fl Paramet HWD NHWD RWD CRU MFR	ter U N N N N N N N N N	Jnit J MJ MJ MJ MJ MJ MJ MJ MJ MJ	14 0 14 88.111 51.889 140 0.514 1.93E-3 12.02E-2 1.00E+1 Use of remary e ewable porimary e y material of the LC/ng 1.77E+0 1.84E-3 3 0.023 1.84E-3 3 0.081	0.091 0 0.091 0 0.091 0 0.091 0 0 0.091 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.93 0 1.93 0 1.93 8.27 0 8.27 0.013 1.16E-4 1.21E-3 7.77E-1 le prima esources energy e esources = Use of 1 Use of 1 0.017 0.017 0.017 0.017	B1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.5 0.5 0.5 6.55 0 6.55 0 2.03E-4 2.13E-3 8.49E-1 y exclud a raw ma non ren s raw ma ble secco VS AN B2 0 6.2E-1 3.95E-4 0 0	0.005 0.005 0.131 0 0.131 0 8.25E-7 8.64E-6 5.1E-4 ing renevable paterials; Indary fu D WA C2 0 4.65E-4 1.81E-7 0 0	C3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	C3/1 0 0 0 0 0 0 0 0 0 0 0 0 0.0E+0 0.0E+0 0 ctal use energy reservations are properly reservations. Total use of the control	C3/2 0.079 0 0.079 0.477 0 0.477 0 9.73E-6 1.02E-4 1.03E-1 ergy resources see of nor of non r	0.149 0 0.149 3.09 0 3.09 0 2.47E-3 5.9E-3 1.14E-1 ources used as an renewale enewable	C4/1 0.294 0 0.294 6.55 0 6.55 0 1.79E-4 1.86E-3 3.11E-1 sed as r. mary en raw ma ble prime e second C4/1 0.539 7.39E-1 1.96E-4 0 0	0 0 0 0 0 0 0 0.0E+0 0.0E+0 0.0E+0 aw mate ergy resterials; Paary ener dary fuel	-0.669 0 -0.669 4.02 0 -4.02 0 -8.21E-5 -8.6E-4 -8.71E-1 rials; PEources; FENRM = gy resous; FW =	-1.57 0 -1.57 -39.1 0 -39.1 0 4.53E-4 4.75E-3 -2.04E+0 RM = Us PENRE : = Use of in D/1 0 -2.14E+0 -1.38E-3 0 0	-0.156 0 -0.156 -56.5 0 -56.5 0 -1.95E-5 -2.0E-4 -2.72E-1 se of = Use of non M = Use et fresh D/2 0 4.42E+1 -9.34E-5 0	
Paramet PERE PERM PENRE PENRE PENRE PENRE PENRE PENRE SM RSF NRSF FW Caption RESULT 1 m² fl Paramet HWD NHWD RWD CRU MFR MER	ter U	Jnit J MJ MJ MJ MJ MJ MJ MJ MJ MJ	14 0 14 88.111 51.889 140 0.514 1.93E-3 12.00E-2 11.0E+1 Use of remark ewable portionary ey material of the control of the con	A4 0.091 0 0.091 0 2.33 0 2.33 0 1.47E-5 1.54E-4 9.1E-3 enewab nergy reprimary early real; RSF A — OL A4 0 8.3E-3 3.24E-6 0 0 0	A5 1.93 0 1.93 0 1.93 8.27 0 8.27 0.013 1.16E-4 1.21E-3 7.77E-1 le primal esources energy e esources = Use of 0 JTPUT A5 0.017 3.722E-1 2.23E-4 0 0.072 0	B1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.5 0 0.5 0 0.5 6.55 0 6.55 0 2.03E-4 2.13E-3 y exclud raw manon rens raw manoles exceed VS AN B2 0 6.2E-1 3.95E-4 0 0 0	0.005 0 0.005 0 0.131 0 0.131 0 8.25E-7 8.64E-6 5.1E-4 ing renevable paterials; I product for the control of th	C3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	C3/1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.079 0 0.079 0.477 0 0.477 0 9.73E-6 1.03E-1 ergy rese se of nor of non r C3/2 0 1.08E-1 7.01E-5 0 0	C4 0.149 0 0.149 3.09 0 3.09 0 2.47E-3 5.9E-3 1.0urces usused as a renewal enewable C4 0 3.08E+0 0 0 0	C4/1 0.294 0 0.294 6.55 0 6.55 0 1.79E-4 1.86E-3 3.11E-1 sed as r. mary ma ble prime e second C4/1 0.539 7.39E-1 1.96E-4 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-0.669 0 -0.669 4.02 0 -4.02 0 -8.21E-5 -8.6E-4 -8.71E-1 rials; PE ources; I PENRM = 2gy resous; FW = D 0 -9.09E-1 -5.91E-4 0 0	-1.57 0 -1.57 -39.1 0 -39.1 0 -39.1 0 -4.53E-4 -4.75E-3 -2.04E+0 RM = Us PENRE : = Use of urces; SN Use of n D/1 0 -2.14E+0 -1.38E-3 0 0	-0.156 0 -0.156 -56.5 0 -56.5 0 -56.5 -2.0E-4 -2.72E-1 se of = Use of non M = Use let fresh D/2 0 4.42E+1 -9.34E-5 0 0	
Paramet PERE PERM PERT PENRE PENRE PENRI SM RSF NRSF FW Caption RESUIT 1 m² fl Paramet HWD NHWD RWD CRU MFR MER EEE	ter U	Jnit J MJ MJ MJ MJ MJ MJ MJ MJ MJ	14 0 14 88.111 51.889 140 0.514 1.93E-3 12.02E-2 11.0E+1 Use of rerimary e ewable porimary e y materia 1.0E+1 1.0E	A4 0.091 0 0.091 0 0.091 0 0.091 0 0 0.091 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	A5 1.93 0 1.93 0 1.93 8.27 0 8.27 0.013 1.16E-4 1.21E-3 7.77E-1 le primal sources energy e esources = Use of Use o	B1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.5 0 0.5 6.55 0 6.55 0 2.03E-4 2.13E-3 y excluder raw mannon rens raw man ble second WS AN B2 0 6.2E-1 3.95E-4 0 0 0	0.005 0 0.005 0.131 0 0.131 0 8.25E-7 8.64E-6 5.1E-4 ing renewterials; I prindary furtherials; I prind	C3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	C3/1 0 0 0 0 0 0 0 0 0 0 0.0E+0 0.0E+0 0.0E+0 Total use response	0.079 0 0.079 0.477 0 9.73E-6 1.02E-4 1.03E-1 ergy resorresse of nor of non r ORIES C3/2 0 1.08E-1 7.01E-5 0 0 0	0.149 0 0.149 3.09 0 3.09 0 2.47E-3 5.9E-3 1.14E-1 ovarces universal or renewale enewable cources of the cources of the cource	C4/1 0.294 0 0.294 6.55 0 6.55 0 1.79E-4 1.86E-3 3.11E-1 sed as r. mary en raw mary en r	0 0 0 0 0 0 0 0 0.0E+0 0.0E+0 0.0E+0 aw mate ergy resterials; F lary enerdary fuel C4/2 0 0.0E+0 0.0E+0 0.0E+0 0.0E+0	-0.669 0 -0.669 4.02 0 -4.02 0 -8.21E-5 -8.6E-4 -8.71E-1 rials; PE ources; I PENRM = gy resou s; FW = D 0 -9.09E-1 -5.91E-4 0 0 0	-1.57 0 -1.57 -39.1 0 -39.1 0 -39.1 0 -4.53E-4 -4.75E-3 -2.04E+0 RM = Us PENRE : - Use of Irrces; SN Use of n -2.14E+0 -1.38E-3 0 0 0	-0.156 0 -0.156 -56.5 0 -56.5 0 -1.95E-5 -2.0E-4 -2.72E-1 se of = Use of non M = Use et fresh D/2 0 -4.42E+1 -9.34E-5 0 0	
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The declared values in module B2 have to be multiplied with the assumed service time (in years) of the floor covering in the building considered.

thermal energy



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