

EPD

Environmental
Product
Declaration

33B6C1E7



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Interface®

Barricade Two CQuest Bio

surface pile weight: 455 g/m²

pile material: polyamide 6 with 100% recycled content

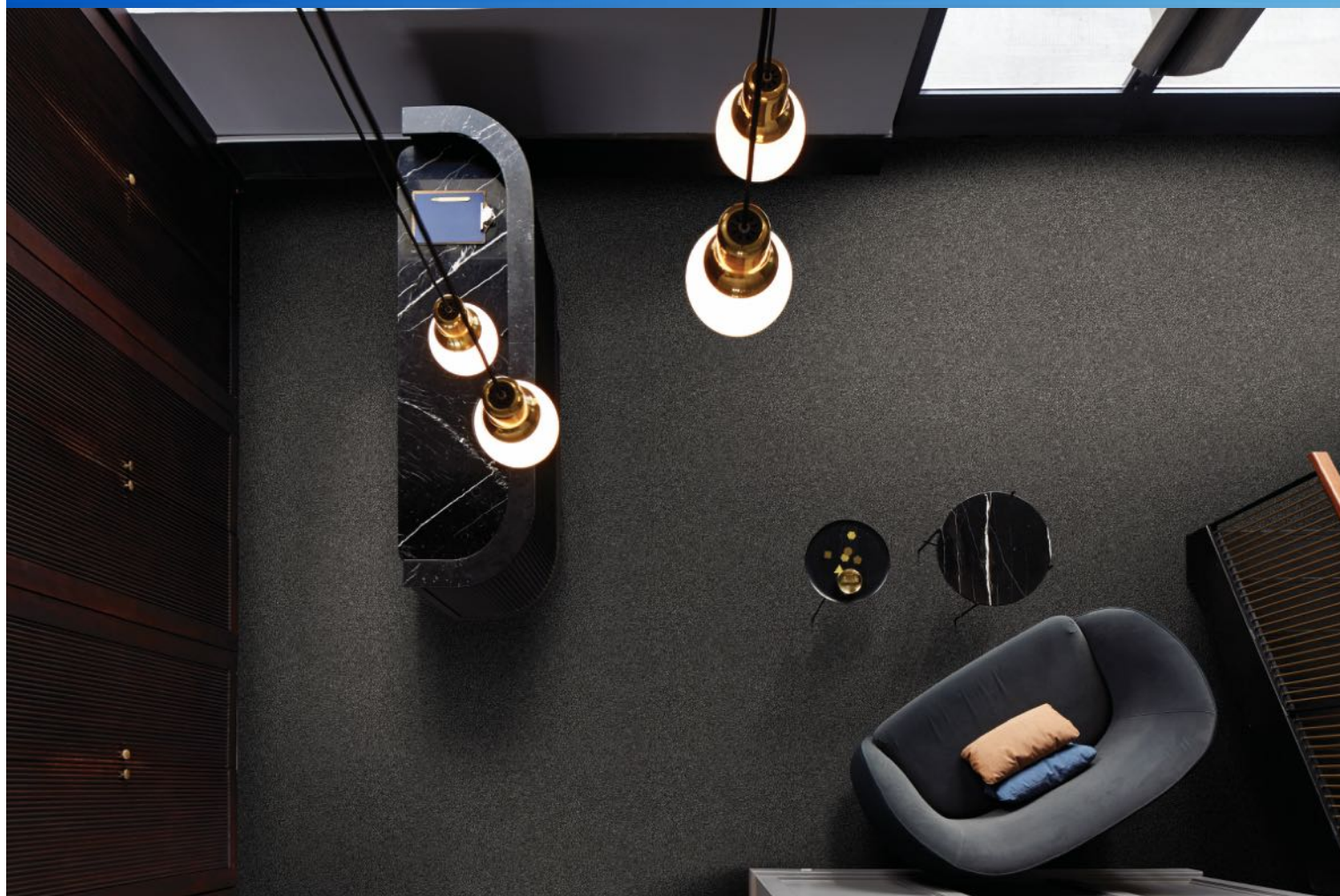
backing: CQuest Bio backing, heavy backing with textile bottom

These EPD data are only valid in combination with

the environmental product declaration EPD-INT-20250141-CBA1-EN published by Institut Bauen und Umwelt e.V. (IBU) and a GUT/Prodis license

This data set gives product specific LCA results

based on the calculation procedure described in the above mentioned EPD.



Calculation method for similar Products of the EPD document

The EPD document is valid for all products with a surface pile weight lower or equal to the declared maximum pile weight of **1500 g/m²**.

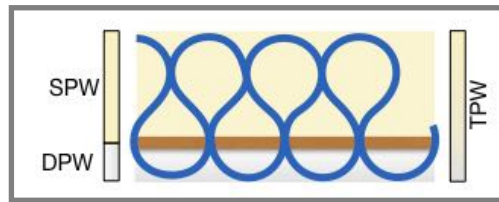
The respective declaration number is **EPD-INT-20250141-CBA1-EN**.

This document indicates more specific LCA results for (a) product(s) with identical material compositions and production parameters. The product(s) belong(s) to the same family of products and only differ in its/their pile weight(s).

LCA results show a linear correlation with the total pile weight, for all impact categories (IC) and all modules (A-D). It is possible to calculate specific LCA results (IC_x) for every carpet (x) within the declared group of products in relation to its total pile weight (P_x).

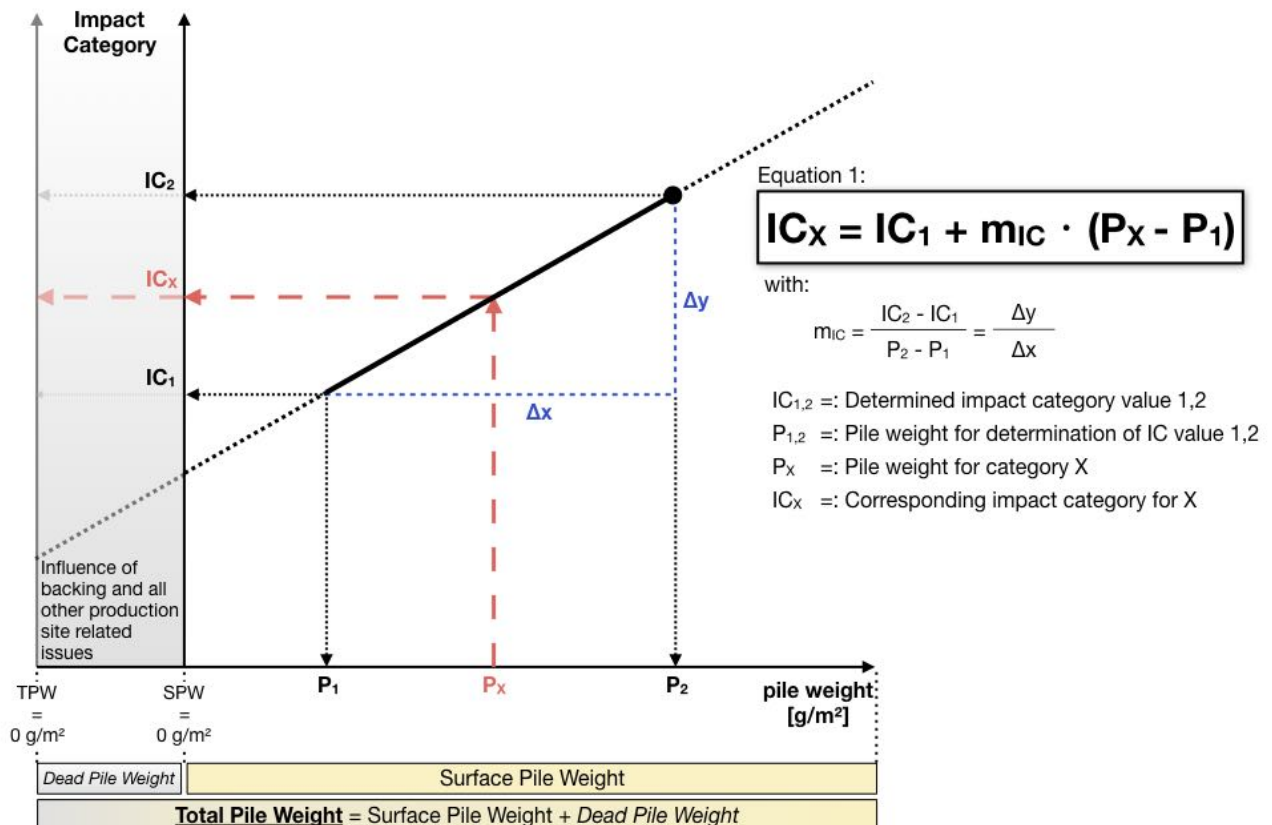
The total pile weight (TPW) is the sum of surface pile weight (SPW) and dead pile weight (DPW):

$$TPW = SPW + DPW$$



The surface pile weight is the technical relevant value according to EN 1307 and has to be mentioned in technical specification. As shown in the figure below alternatively to the total pile weight the surface pile weight can be used to calculate LCA results (IC_x).

General formula for the calculation of all impact categories IC_x



Graph 1: General formula for the calculation of all impact categories IC_x.

1. Information on the product Barricade Two CQuest Bio

Product description

Constructional data according to EN 1307

Name	Value	Unit
Product form	Modular carpet tiles	-
Type of manufacture	Tufted carpet	-
Yarn type	Polyamide 6	-
Total carpet weight	max. 4093	g/m ²
Surface pile weight	max. 455	g/m ²
Secondary backing	Heavy backing with textile bottom	-

Base materials/Ancillary materials

Name	Value	Unit
Polyamide 6	17,7	%
Polypropylene	1,2	%
Polyester	2,9	%
Ethylene vinyl acetate (EVA)	6,6	%
Limestone	59,5	%
Additives	3,2	%
Wood resin	8,0	%
Glass fibre	0,8	%

LCA: Calculation rules

Declared Unit

Name	Value	Unit
Declared unit	1	m ²
Grammage	4,093	kg/m ²

LCA: Scenarios and additional technical information

All indicated values refer to the declared functional unit

Characteristic product properties: Information on biogenic Carbon

Name	Value	Unit
Biogenic Carbon Content in accompanying packaging at factory gate	0,064	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)	0,0113	l/100km
Transport distance	700	km
Capacity utilisation (including empty runs)	55	%

Installation in the building (A5)

Name	Value	Unit
Material loss	0,123	kg

Maintenance (B2)

Name	Value	Unit
Maintenance cycle (vacuum cleaning)	208	1/year
Maintenance cycle (wet cleaning)	1,50	1/year
Water consumption (wet cleaning)	0,004	m ³
Cleaning agent (wet cleaning)	0,09	kg
Electricity consumption	0,314	kWh

Indication per m² and year

Service life

Name	Value	Unit
Life Span (according to manufacturer)	15	year
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 scenarios (SC0-SC2)

Name	SC1	SC2	SC3	Unit
Collected as mixed construction waste	4,09	4,09	-	kg
Collected separately	-	-	4,09	kg
Landfilling	4,09	-	-	kg
Energy recovery	-	4,09	1,62	kg
Recycling	-	-	2,47	kg

SC0: 100% landfill disposal, **SC1:** 100% municipal waste incineration (MWI) with R1>0.6, **SC2:** 100% recovery in the cement industry

LCA: Results

Modules C1, C3, C4/1 and C4/2 cause no additional impact (see "LCA: Calculation rules"). Module C2 represents the transport for scenarios 0, 1 and 2. Column D/3 represents module D/A5.

Description of the system boundary

(X = Included in LCA; ND = Module or indicator not declared; MNR = Module not relevant)

State of production			State of construction phase		State of use							End of life state				Credits and loads after life	
raw material supply	transport	manufacturing	transport from the gate to the site	assembly	use	maintenance	repair	replacement	refurbishment	energy use	water use	deconstruction / demolition	transport	waste processing	disposal	reuse, recovery and 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: for 1 m² floor covering

Core Indicator	Unit	A1-A3	A4	A5	B1	B2	C1	C2	C3/1	C3/2	C4	D	D/1	D/2	D/3
GWP-total	[kg CO ₂ -Eq.]	2,54E+00	3,05E-01	2,52E-01	0,00E+00	5,09E-01	0,00E+00	1,68E-02	4,19E+00	4,25E+00	1,22E+00	0,00E+00	-3,70E-01	-1,06E-01	-1,11E-02
GWP-fossil	[kg CO ₂ -Eq.]	3,86E+00	2,99E-01	2,18E-01	0,00E+00	3,09E-01	0,00E+00	1,65E-02	3,09E+00	3,14E+00	1,18E-01	0,00E+00	-3,68E-01	-1,06E-01	-1,10E-02
GWP-biogenic	[kg CO ₂ -Eq.]	-1,33E+00	7,61E-04	3,32E-02	0,00E+00	3,60E-03	0,00E+00	4,19E-05	1,11E+00	1,11E+00	1,55E-01	0,00E+00	-1,59E-03	6,40E-05	-4,78E-05
GWP-luluc	[kg CO ₂ -Eq.]	9,77E-03	5,12E-03	4,78E-04	0,00E+00	1,96E-01	0,00E+00	2,82E-04	6,14E-04	1,32E-03	4,43E-04	0,00E+00	-3,34E-05	-1,02E-04	-1,00E-06
ODP	[kg CFC ₁₁ -Eq.]	2,18E-08	3,07E-14	6,56E-10	0,00E+00	3,42E-08	0,00E+00	1,69E-15	1,05E-12	1,44E-12	3,96E-13	0,00E+00	-3,28E-12	-2,61E-13	-9,83E-14
AP	[kg H ⁺ -Eq.]	1,82E-02	1,88E-03	7,27E-04	0,00E+00	7,45E-04	0,00E+00	1,03E-04	3,95E-03	4,25E-03	7,20E-04	0,00E+00	-3,86E-04	-2,95E-04	-1,16E-05
EP-freshwater	[kg P-Eq.]	1,32E-04	1,30E-06	4,02E-06	0,00E+00	5,26E-06	0,00E+00	7,16E-08	9,35E-07	1,19E-06	6,90E-05	0,00E+00	-6,11E-07	-1,34E-07	-1,83E-08
EP-marine	[kg N-Eq.]	6,06E-03	9,21E-04	2,69E-04	0,00E+00	1,81E-04	0,00E+00	5,08E-05	1,91E-03	2,05E-03	1,55E-04	0,00E+00	-1,18E-04	-1,04E-04	-3,54E-06
EP-terrestrial	[kg N-Eq.]	5,75E-02	1,02E-02	2,69E-03	0,00E+00	2,66E-03	0,00E+00	5,63E-04	2,13E-02	7,33E-03	1,70E-03	0,00E+00	-1,27E-03	-1,14E-03	-3,79E-05
POCP	[kg NMVOC-Eq.]	1,49E-02	1,76E-03	6,51E-04	4,18E-04	9,44E-04	0,00E+00	9,73E-05	4,93E-03	5,18E-03	4,96E-04	0,00E+00	-3,34E-04	-3,36E-04	-1,00E-05
ADPE	[kg Sb-Eq.]	1,87E-06	2,60E-08	5,75E-08	0,00E+00	2,15E-07	0,00E+00	1,43E-09	1,52E-08	2,19E-08	7,99E-09	0,00E+00	-3,19E-08	-5,36E-09	-9,58E-10
ADPF	[MJ]	7,02E+01	3,98E+00	2,32E+00	0,00E+00	5,62E+00	0,00E+00	2,19E-01	2,86E+00	3,77E+00	2,03E+00	0,00E+00	-6,57E+00	-1,78E+01	-1,97E-01
WDP	[m ³ world-Eq. deprived]	1,81E+01	4,53E-03	5,62E-01	0,00E+00	9,97E-02	0,00E+00	2,50E-04	6,11E-01	6,17E-01	1,56E-02	0,00E+00	-4,01E-02	-1,42E-02	-1,20E-03
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: for 1 m² floor covering

Core Indicator	Unit	A1-A3	A4	A5	B1	B2	C1	C2	C3/1	C3/2	C4	D	D/1	D/2	D/3
PERE	[MJ]	6,02E+01	3,36E-01	2,45E+00	0,00E+00	4,03E+00	0,00E+00	1,86E-02	1,16E+01	1,19E+01	3,07E-01	0,00E+00	-2,19E+00	-1,53E-01	-6,58E-02
PERM	[MJ]	1,12E+01	0,00E+00	-2,83E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	-1,10E+01	-1,10E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PERT	[MJ]	7,14E+01	3,36E-01	2,17E+00	0,00E+00	4,03E+00	0,00E+00	1,86E-02	6,54E-01	9,59E-01	3,07E-01	0,00E+00	-2,19E+00	-1,53E-01	-6,58E-02
PENRE	[MJ]	5,37E+01	3,98E+00	2,61E+00	0,00E+00	5,62E+00	0,00E+00	2,19E-01	1,90E+01	1,99E+01	2,03E+00	0,00E+00	-6,57E+00	-1,78E+01	-1,97E-01
PENRM	[MJ]	1,64E+01	0,00E+00	-2,95E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	-1,61E+01	-1,61E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PENRT	[MJ]	7,02E+01	3,98E+00	2,32E+00	0,00E+00	5,62E+00	0,00E+00	2,19E-01	2,86E+00	3,77E+00	2,03E+00	0,00E+00	-6,57E+00	-1,78E+01	-1,97E-01
SM	[kg]	3,41E+00	0,00E+00	1,02E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
RSF	[MJ]	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
NRSF	[MJ]	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
FW	[m ³]	4,33E-01	3,77E-04	1,35E-02	0,00E+00	3,31E-03	0,00E+00	2,08E-05	4,46E-01	1,47E-02	4,64E-04	0,00E+00	-1,69E-03	-1,54E-03	-5,05E-05
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: for 1 m² floor covering

Core Indicator	Unit	A1-A3	A4	A5	B1	B2	C1	C2	C3/1	C3/2	C4	D	D/1	D/2	D/3
HWD	[kg]	2,08E-03	1,29E-10	6,24E-05	0,00E+00	4,19E-05	0,00E+00	7,09E-12	1,31E-09	1,85E-09	5,02E-10	0,00E+00	-4,44E-09	-3,35E-10	-1,33E-10
NHWD	[kg]	3,29E-01	6,18E-04	4,73E-02	0,00E+00	7,35E-03	0,00E+00	3,41E-05	1,25E+00	1,25E+00	4,07E+00	0,00E+00	-3,42E-03	-3,56E-04	-1,03E-04
RWD	[kg]	1,73E-03	5,14E-06	5,51E-05	0,00E+00	3,54E-04	0,00E+00	2,83E-07	1,02E-04	1,59E-04	2,87E-05	0,00E+00	-4,85E-04	-2,97E-05	-1,45E-05
CRU	[kg]	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
MFR	[kg]	1,76E-02	0,00E+00	5,28E-04	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,40E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
MER	[kg]	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
EEE	[MJ]	0,00E+00	0,00E+00	1,25E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	4,16E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
EET	[MJ]	0,00E+00	0,00E+00	2,39E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	7,98E+00	7,35E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
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														