Environmental Product Declaration





In accordance with ISO 14025 and EN 15804:2012+A2:2019 for:

DESSO Carpet Tiles, 0% recycled PA6 + ProBase

from

TARKETT



Programme: The International EPD® System, <u>www.environdec.com</u>

Programme operator: EPD International AB

EPD registration number: S-P-08639

Publication date: 2023-03-27

Valid until: 2028-03-27

An EPD should provide current information and may be updated if conditions change. The stated validity is therefore subject to the continued registration and publication at www.environdec.com





General information

Programme information

Programme:	The International EPD® System
Address:	EPD International AB Box 210 60 SE-100 31 Stockholm Sweden
Website:	www.environdec.com
E-mail:	info@environdec.com

CEN standard EN 15804 serves as the Core Product Category Rules (PCR)
Product category rules (PCR): PCR 2019:14 version 1.11 and c-PCR-004 Resilient, textile and laminate floor coverings (EN 16810)
PCR review was conducted by: The Technical Committee of the International EPD® System lead by Claudia A Peña. A full list of members available on www.environdec.com. The review panel may be contacted via info@environdec.com
Independent third-party verification of the declaration and data, according to ISO 14025:2006:
☐ EPD process certification ☒ EPD verification
Third party verifier: Damien Prunel from LCIE Bureau Veritas
Procedure for follow-up of data during EPD validity involves third party verifier:
⊠ Yes □ No

The EPD owner has the sole ownership, liability, and responsibility for the EPD.

EPDs within the same product category but from different programs may not be comparable. EPDs of construction products may not be comparable if they do not comply with EN 15804. For further information about comparability, see EN 15804 and ISO 14025.



Company information

Owner of the EPD: Tarkett
Contact: Sandy Bentmim (sandy.bentmim@tarkett.com)
Description of the organisation:

With an international coverage and a wide range of products, Tarkett has over 130 years of experience in providing integrated solutions for floorings to professionals and end users. Many of the most important architectural firms in the world and building professionals have chosen Tarkett for the value of its products and for its consultation and service abilities. Therefore, Tarkett floorings and sport surfaces are present in several prestigious architectural reference points. Tarkett offers integrated solutions for floorings, able to meet the particular needs of customers. Our wide range of designs, colours and models provides an infinite series of possibilities, contributing to create a positive environment and a better quality of life for people.

Tarkett operates with the utmost respect for the environment towards the realization of eco-friendly products.

Tarkett's commitment to the environment is woven throughout its business. Cradle-to-Cradle principles are, in fact, the basis of the design and production of every solution. Particularly, the lifecycle analysis is used to continuously improve the production process, and so the products until their use stage, disposal and recycling. The development of products that can be reused within internal production cycles, or external ones in case of other individuals, has been an integral part of the business strategy aimed at sustainability for many years. The WCM (World Class Manufacturing) management system has been developed in 2009, and it includes the environmental pillar aimed to the elimination of losses and to the growth of process efficiency.

<u>Product-related or management system-related certifications:</u> ISO 14001, ISO 45001, WCM manufacturing site

Name and location of production site(s): Dendermonde (Belgium) and Waalwijk (Netherlands)

Product information

Product name: DESSO Carpet tiles, 0% recycled PA6 + ProBase

<u>Product identification:</u> Carpet tiles with a DESSO ProBase backing and solution dyed PA6 yarn <u>Product description:</u> Loose-lay carpet tiles (EN 1307) with DESSO ProBase backing developed by

Tarkett. The service lifetime recommended by Tarkett is 10 years

UN CPC code: 2223Z



LCA information

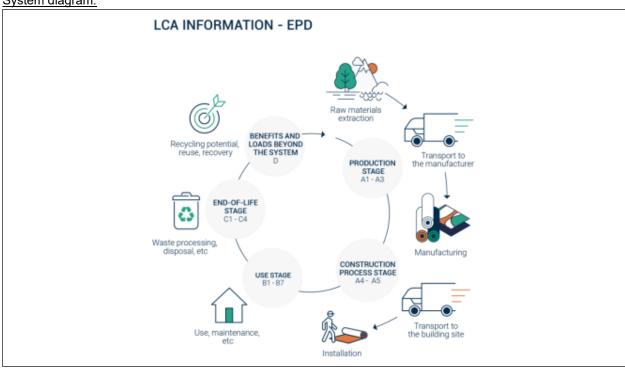
<u>Functional unit / declared unit:</u> 1m² of floor covering with a reference service life (RSL) of 1 year for specified characteristics application and use areas according to ISO 1307 and EN ISO 10874.

Reference service life: 1 year Time representativeness: 2021

Database(s) and LCA software used: Ecoinvent 3.6, Simapro 9.1

Description of system boundaries: Cradle to grave and module D (A + B + C + D)

System diagram:



<u>More information:</u> The products are classified in accordance with EN ISO 10874, (previously EN 685) and in reference to the FCSS (Floor Covering Standard Symbols) to be used in all professional areas which require class 33 or less.



Modules declared, geographical scope, share of specific data (in GWP-GHG indicator) and data variation:

	Pro	duct st	age	Constr prod sta	ess	Use stage							Er	nd of li	Resource recovery stage		
	Raw material supply	Transport	Manufacturing	Transport	Construction installation	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction demolition	Transport	Waste processing	Disposal	Reuse-Recovery-Recycling- potential
Module	A 1	A2	А3	A4	A5	B1	B2	В3	B4	B5	В6	В7	C1	C2	С3	C4	D
Modules declared	Х	Х	Х	Х	Х	ND	х	ND	ND	ND	ND	ND	Х	х	х	х	х
Geography					Europ	ean te	chnolo	gy and	process	s cover	age						European
Specific data used	ı	100%	100%	100%	100%	1	-	-	-	-	i	- 1	-	-		% for nent istry	100% for cement industry
Variation – products		<24%		-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variation – sites	N	lot releva	nt	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Content information

Characteristics	Product Thickness [mm]	Product Weight [kg/m²]	Dimensional stability [%]
Yarn range: 400-499		3.913	
Yarn range: 500-599	5.5 – 7.0	4.013	≤ 0.2
Yarn range: 600-699		4.113	

Chemical composition for above mentioned products is presented in the following table:

Product		Weight [%]		Post-consumer	Renewable			
components	400-499	500-599	600-699	material, weight-%	material, weight-%			
Non-woven (PET/PP)	4	4	4	0	0			
Yarn PA6	13	15	17	0	0			
SBR-compound	5	5	4	0	0			
Aluminium trihydrate	9	8	8	0	0			
Primary chalk	54	53	52	0	0			
Glass scrim	1	1	1	0	0			
ProBase	14	14	14	0	0			
Packaging materials		Weight, kg		Weight-% (vers	sus the product)			
Cardboard box		0.109		3				
Wooden pallet		0.100			2			

Material Health

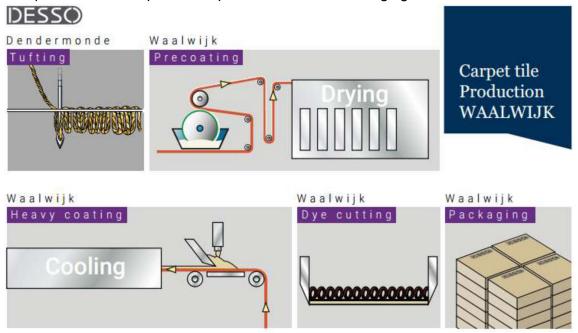
DESSO Carpet Tiles with 0% recycled PA6 yarn and ProBase backing are C2C-Bronze certified. Raw materials are assessed against 'Material Health' criteria as defined by the C2C product certification standard v3.1 and the C2C Material Health Assessment methodology (see www.c2ccertified.org).



Product manufacturing

Production process

The production of carpet tiles is presented in the following figure:



Renewable energy

Our carpet tiles are produced with energy from 100% renewable sources. The electricity is coming from renewable sources with Guarantees of Origin.

Production waste

Waste type	DESSO Carpet Tiles, 0% recycled PA6 + ProBase
Non-hazardous waste to incineration in the cement industry [kg/m²]	2.23E-01
Non-hazardous wastewater to external treatment [kg/m²]	2.04E-02

Delivery and installation

Delivery

The average distribution distance between the factories and the installation site is presented in the following table. The distribution is made by truck.

	DESSO Carpet Tiles, 0% recycled PA6 + ProBase
Average distance of delivery [km]	7.00E+02

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Installation

Carpet flooring do not use any electric tools for their installation. If a cut is necessary, it could be done with a manual tool.

Waste

During the installation approximately 3% of the flooring is lost as off-cuts. All flooring losses are sent to incineration

Packaging

50% of the packaging materials goes to incineration and 50% goes to landfill except for wooden pallet which are recycled.

Use Stage

Reference Service Life (RSL)

For this product, the stated RSL is 1 year. It should be noted, however, that the service life of a carpet flooring may vary depending on the amount and nature of floor traffic and the type and frequency of maintenance. The manufacturer has provided this service life on the basis of his experience of flooring manufacture and supply. This RSL is applicable as long as the product use complies with that defined by ISO 14041 and ISO 10874 in accordance with the product's classification. The service lifetime recommended by Tarkett is 10 years.

Cleaning and maintenance

The maintenance step concerns the cleaning of the floor. Tarkett has provided the recommended maintenance routine for the product throughout the reference life. Water, detergent and electricity consumption of the cleaning machine are considered in the LCA study:

Common maintenance: 2 times / weekPeriodical maintenance: 2 times / year

Description	Amount	Unit				
Electricity consumption	4.42E-01	kWh/year/m²				
Water consumption	5.70E-02	L/year/m²				
Detergent consumption	3.00E-03	L/year/m²				

Prevention of structural damage

To avoid excessive wear, usage should be restricted to the stated areas of application as outlined by the norm ISO 10874.



End of Life

Waste processing

For the purpose of this LCA, it has been assumed that 100% of the product is sent to the cement industry for recycling of chalk and ATH (raw material of cement).

Transport

The distance of transport, by truck, between installation sites and cement industry:

	DESSO Carpet Tiles, 0% recycled PA6 + ProBase
Transport distance to cement industry [km]	2.50E+02

Environmental impacts of this process are presented in module C.

Resource recovery

Benefits accounted in this scenario are presented in module D.

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Environmental Information

Potential environmental impact

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Indicator	Unit	A1-A3	A4	A5	B1	B2	В3	B4	B5	B6	В7	C1	C2	C3	D
GWP-total GWP-fossil	kg CO2 eq	6.82E+00 6.75E+00	1.16E-01 1.16E-01	4.74E-01 3.63E-01	0.00E+00 0.00E+00	1.78E-01 1.76E-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 0.00E+00	4.16E-02 4.15E-02	4.98E+00 4.98E+00	-5.18E-
GWP- biogenic	kg CO2 eq	5.83E-02	4.64E-05	1.10E-01	0.00E+00	1.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-05	4.14E-04	-4.85E
WP- Luluc	kg CO2 eq	9.25E-03	4.57E-05	2.86E-04	0.00E+00	6.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-05	8.03E-05	-3.16E
AP	kg CFC11 eq	1.77E-06	2.68E-08	5.57E-08	0.00E+00	8.90E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.62E-09	8.34E-09	-3.748
ODP	mol H+ eq	2.19E-02	4.65E-04	7.49E-04	0.00E+00	9.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04	8.81E-04	-4.168
EP- eshwater	kg P eq	9.28E-04	7.49E-06	2.98E-05	0.00E+00	1.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-06	3.20E-05	-2.15
P-marine	kg N eq mol N eq	4.80E-03	1.39E-04	2.77E-04 1.74E-03	0.00E+00	1.70E-04	0.00E+00	0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00	0.00E+00	5.08E-05	4.49E-04 3.83E-03	-6.38
P-terrestrial POCP	kg NMVOC	4.67E-02 1.67E-02	1.52E-03 4.66E-04	6.21E-04	0.00E+00 0.00E+00	1.46E-03 3.96E-04	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	5.55E-04 1.70E-04	9.36E-04	-6.95 -2.01
ADP-	eq	1.072-02	4.002.04	0.212-04	0.002-00	3.30E-04	0.002.00	0.002.00	0.002-00	0.002.00	0.002.00	0.002.00	1.702-04	3.30E-04	2.01
nerals&me tals*	kg Sb eq	2.68E-05	4.05E-07	8.52E-07	0.00E+00	4.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-07	2.87E-07	-2.77
DP-fossil* WDP	MJ m3 depriv.	1.53E+02 7.91E-01	1.75E+00 5.10E-03	4.79E+00 3.21E-02	0.00E+00 0.00E+00	3.83E+00 4.44E-02	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	6.29E-01 1.82E-03	1.10E+00 1.61E-01	-5.15E
Acronyms	potential, fra	action of nutrie	ents reaching i	marine end co n-fossil resou	mpartment; EF rces; ADP-foss	P-terrestrial = E sil = Abiotic de	Eutrophication pletion for foss	potential, Accu sil resources p	on potential, fra umulated Exce potential; WDP g/m2 (End of L	edance; POCF = Water (user)	e = Formation deprivation p	potential of tro	pospheric ozoi	ne; ADP-mine	rals&me
Indicator	Unit	A1-A3	A4	A5	B1	B2	В3	B4	B5	B6	В7	C1	C2	С3	[
	kg CO2 eq	7.63E+00 7.55E+00	1.16E-01 1.16E-01	5.05E-01 3.95E-01	0.00E+00 0.00E+00	1.78E-01 1.76E-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 0.00E+00	4.16E-02 4.15E-02	5.22E+00 5.22E+00	-5.22 -5.21
GWP-	kg CO2 eq	6.08E-02	4.64E-05	1.10E-01	0.00E+00	1.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-05	4.38E-04	-4.96
biogenic NP-Luluc	kg CO2 eq	1.06E-02	4.57E-05	3.25E-04	0.00E+00	6.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-05	8.37E-05	-3.21
AP	kg CFC11	1.77E-06	2.68E-08	5.57E-08	0.00E+00	8.90E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.62E-09	8.89E-09	-3.75
ODP	eq mol H+ eq	2.33E-02	4.65E-04	7.94E-04	0.00E+00	9.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04	9.39E-04	-4.19
EP-	kg P eq	9.28E-04	7.49E-06	2.98E-05	0.00E+00	1.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-06	3.33E-05	-2.18
eshwater P-marine	kg N eq	5.24E-03	1.39E-04	2.91E-04	0.00E+00	1.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.08E-05	4.80E-04	-6.42
P-terrestrial	mol N eq kg NMVOC	5.07E-02	1.52E-03	1.86E-03	0.00E+00	1.46E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.55E-04	4.10E-03	-6.99
POCP ADP-	eq	1.80E-02	4.66E-04	6.64E-04	0.00E+00	3.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-04	1.00E-03	-2.02
nerals&me tals*	kg Sb eq	2.71E-05	4.05E-07	8.60E-07	0.00E+00	4.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-07	3.05E-07	-2.77
DP-fossil* WDP	MJ m3 depriv.	1.68E+02 8.05E-01	1.75E+00 5.10E-03	5.25E+00 3.28E-02	0.00E+00 0.00E+00	3.83E+00 4.44E-02	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	6.29E-01 1.82E-03	1.16E+00 1.72E-01	-5.21 -7.98
					WD bissesis		ning Potential	hingonic: CWE			tantial land us	n and land ucc			
Acronyms	stratospheri potential, fra	c ozone layer, action of nutrie	; AP = Acidifica ents reaching r	ition potential, marine end co n-fossil resou	Accumulated E mpartment; EF rces; ADP-foss	Exceedance; E P-terrestrial = E sil = Abiotic de	Eutrophication pletion for foss	= Eutrophication potential, Accu sil resources p	P-Iuluc = Globa on potential, fra umulated Exce ootential; WDP g/m2 (End of L	action of nutrie edance; POCF = Water (user	nts reaching fr = Formation) deprivation p	eshwater end potential of tro	pospheric ozo	EP-marine = I ne; ADP-mine	Eutrophi rals&me
	stratospheri potential, fra	c ozone layer, action of nutrie	; AP = Acidifica ents reaching r	ition potential, marine end co n-fossil resou	Accumulated E mpartment; EF rces; ADP-foss	Exceedance; E P-terrestrial = E sil = Abiotic de	Eutrophication pletion for foss	= Eutrophication potential, Accu sil resources p	on potential, fra umulated Exce potential; WDP	action of nutrie edance; POCF = Water (user	nts reaching fr = Formation) deprivation p	eshwater end potential of tro	compartment; pospheric ozo	EP-marine = I ne; ADP-mine	Eutrophi rals&me
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Indicator SWP-total SWP-fossil GWP- biogenic	stratospher potential, fra Abio Unit kg CO2 eq kg CO2 eq kg CO2 eq	c ozone layer, action of nutrie tic depletion p A1-A3 8.43E+00 8.35E+00 6.33E-02	AP = Acidifica ents reaching r potential for no A4 1.16E-01 1.16E-01 4.64E-05	A5 5.52E-01 4.53E-01 1.07E-01	Accumulated Bright Market Services; ADP-foss Bright Market Services; ADP-foss Bright Market Services Bright Market	Exceedance; E P-terrestrial = E sil = Abiotic dej al or declared B2 1.78E-01 1.76E-01 1.11E-03	B3 0.00E+00 0.00E+00	Eutrophication potential, Accupit resources programme by the second potential, Accupit resources programme by the second potential resources programme by	on potential, fra umulated Exce obtential; WDP g/m2 (End of L) B5 0.00E+00 0.00E+00 0.00E+00	action of nutrier edance; POCF = Water (user) Ife -> Cement B6 0.00E+00 0.00E+00 0.00E+00	nts reaching from the reaching from the reaching from the reaching plants of the reaching from the rea	eshwater end potential of tro otential, depriv C1 0.00E+00 0.00E+00 0.00E+00	compartment; pospheric ozor ation-weighted C2 4.16E-02 4.15E-02 1.66E-05	EP-marine = Ine; ADP-mine id water consult of water consu	Eutroph rals&me mption [-5.26 -5.25 -5.08
Indicator SWP-total SWP-fossil GWP- biogenic WP- Luluc	stratospher potential, fra Abio Unit kg CO2 eq kg CO2 eq	A1-A3 8.43E+00 8.35E+00 6.33E-02 1.19E-02	AP = Acidifica ents reaching rotential for no A4 1.16E-01 1.16E-01 4.64E-05 4.57E-05	A5 5.52E-01 4.53E-01 5.65E-04	Accumulated Empartment; EF rces; ADP-foss s per functions B1 0.00E+00 0.00E+00 0.00E+00	Exceedance; E -terrestrial = E sil = Abiotic der al or declared B2 1.78E-01 1.76E-01 1.11E-03 6.50E-04	B3 0.00E+00 0.00E+00 0.00E+00 0.00E+00	Eutrophication potential, Accusil resources programmer for the sources programmer for the sources programmer for the sources programmer for the sources programmer for the source for the	on potential, fra umulated Exce obtential; WDP g/m2 (End of L) B5 0.00E+00 0.00E+00 0.00E+00	action of nutrier edance; POCF = Water (user; Mater (user; Mater (user) and Material B6 0.00E+00	nts reaching fr = Formation) deprivation p industry) B7 0.00E+00 0.00E+00 0.00E+00 0.00E+00	c1 0.00E+00 0.00E+00 0.00E+00	C2 4.16E-02 4.15E-02 1.66E-05	C3 5.46E+00 5.46E+00 4.61E-04 8.70E-05	Eutroph rals&me mption -5.26 -5.25 -5.08 -3.25
ndicator SWP-total WP-fossil GWP- biogenic WP- Luluc AP	stratospher potential, fra Abio Unit kg CO2 eq kg CO2 eq kg CO2 eq kg CFC11 eq	A1-A3 8.43E+00 8.35E+00 6.33E-02 1.19E-02	AP = Acidifica ents reaching rootential for no A4 1.16E-01 1.16E-01 4.64E-05 4.57E-05 2.68E-08	A5 5.52E-01 4.53E-01 1.07E-01	Accumulated Empartment, EF (ces; ADP-foss) B1 0.00E+00 0.00E+00 0.00E+00 0.00E+00	Exceedance; E -terrestrial = E sil = Abiotic del al or declared B2 1.78E-01 1.76E-01 1.11E-03 6.50E-04 8.90E-09	B3 0.00E+00 0.00E+00	Eutrophication potential, Accupit resources programme by the second potential, Accupit resources programme by the second potential resources programme by	on potential, fra umulated Exce obtential; WDP g/m2 (End of L) B5 0.00E+00 0.00E+00 0.00E+00	action of nutrier edance; POCF = Water (user; Mater (user; Mater (user)	nts reaching from the reaching from the reaching from the reaching plants of the reaching from the rea	eshwater end potential of tro otential, depriv C1 0.00E+00 0.00E+00 0.00E+00	C2 4.16E-02 4.15E-02 1.66E-05 1.63E-05 9.62E-09	C3 5.46E+00 5.46E+00 4.61E-04 8.70E-05 9.44E-09	-5.26 -5.25 -5.08 -3.25
ndicator WP-total WP-fossil GWP- piogenic WP- Luluc AP ODP EP-	stratospher potential, fra Abio Unit kg CO2 eq kg CC11 eq mol H+ eq	A1-A3 8.43E+00 8.35E+00 6.33E-02 1.19E-02	AP = Acidifica ents reaching rotential for no A4 1.16E-01 1.16E-01 4.64E-05 4.57E-05	A5 5.52E-01 4.53E-01 1.07E-01 5.65E-04 5.57E-08	Accumulated Empartment; EF rces; ADP-foss s per functions B1 0.00E+00 0.00E+00 0.00E+00	Exceedance; E -terrestrial = E sil = Abiotic der al or declared B2 1.78E-01 1.76E-01 1.11E-03 6.50E-04	B3 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	= Eutrophicatio potential, Accusil resources p ight 600-699 g B4 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	po potential, fra umulated Exce potential; WDP g/m2 (End of L) B5 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	action of nutrier edance; POCF = Water (user; Mater (user; Mater (user) and Material B6 0.00E+00	nts reaching fr = Formation) deprivation p industry) B7 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	C1 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	C2 4.16E-02 4.15E-02 1.66E-05	C3 5.46E+00 5.46E+00 4.61E-04 8.70E-05	Eutroph rals&me mption -5.26 -5.25 -5.08 -3.25 -3.77 -4.22
ndicator SWP-total WP-fossil GWP- biogenic WP-Luluc AP ODP EP- eshwater	stratospher potential, fra Abio Unit kg CO2 eq kg CO2 eq kg CO2 eq kg CFC11 eq	A1-A3 8.43E+00 8.35E+00 6.33E-02 1.19E-02 2.48E-02	AP = Acidifica ents reaching rootential for no A4 1.16E-01 1.16E-01 4.64E-05 4.57E-05 2.68E-08 4.65E-04	A5 5.52E-01 4.53E-01 5.65E-04 5.57E-08 8.61E-04	Accumulated Empartment, EF roses; ADP-foss per functions B1 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	Exceedance; E -terrestrial = E sill = Abiotic dej al or declared B2 1.78E-01 1.76E-01 1.11E-03 6.50E-04 8.90E-09 9.55E-04	B3 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	Eutrophication potential, Accusive results and accusive results and accusive results are results and accusive results and accusive results are results are results and accusive results are results and results are results are results and results are results and resu	Description of the potential of the pote	B6 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	nts reaching fr = Formation) deprivation p industry) B7 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	C1 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	C2 4.16E-02 4.15E-02 1.66E-05 1.63E-05 1.69E-04	EP-marine = Ine; ADP-mine di water consultation C3	-5.26 -5.25 -5.08 -3.25 -3.77 -4.22
ndicator SWP-total WWP-tossil GWP- biogenic WP- Luluc AP ODP EP- eshwater P-marine	stratospher potential, fra Abio Unit kg CO2 eq kg CO2 eq kg CO2 eq kg CC11 eq mol H+ eq kg Peq kg Peq mol N+ eq mol N eq mol N eq	A1-A3 8.43E+00 8.35E+00 6.33E-02 1.19E-02 1.77E-06 2.48E-02 9.28E-04	AP = Acidifica ents reaching potential for no A4 1.16E-01 1.16E-01 4.64E-05 4.57E-05 2.68E-08 4.65E-04 7.49E-06	A5 5.52E-01 4.53E-01 5.65E-04 5.57E-08 8.61E-04 7.44E-05	Accumulated to mpartment, Erc case; ADP-foss; SP functions: B1 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	Exceedance, E -terrestrial = E iil = Abiotic dej 11 or declared B2 1.78E-01 1.76E-01 1.11E-03 6.50E-04 8.90E-09 9.55E-04 1.74E-04	B3 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	= Eutrophicatic potential, Acct sit resources p light 600-699 (B4	n potential, fra mulated Exce potential, fra mulated Exce potential, WDP prinz (End of L) B5 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	### Automatic Control of Provided Provi	nts reaching fr = Formation of deprivation p Industry B7 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	C1 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	compartment, pospheric ozo attion-weighted C2 attion-weighted C2 4.16E-02 4.15E-02 1.66E-05 1.63E-05 9.62E-09 1.69E-04 2.68E-06	EP-marine = 1 ne, ADP-mine d water consul C3 5.46E+00 5.46E+00 4.61E-04 8.70E-05 9.44E-09 9.97E-04 3.45E-05	-5.26 -5.25 -5.08 -3.25 -3.77 -4.22 -2.20
Indicator SWP-total SWP-fossil GWP-biogenic WP-Luluc AP ODP EP- reshwater EP-marine	stratospher potential, fra Abio Unit kg CO2 eq kg CC511 eq mol H+ eq kg P eq kg N eq	c ozone layer, ctdon of nutric tic depletion p A1-A3 8.43E+00 8.35E+00 6.33E-02 1.19E-02 1.77E-06 2.48E-02 9.28E-04 5.68E-03	AP = Acidifica ents reaching i potential for no A4 1.16E-01 1.16E-01 4.64E-05 4.57E-05 2.68E-08 4.65E-04 7.49E-06 1.39E-04	tion potential, marine end con-fossil resous Results A5 5.52E-01 4.53E-01 1.07E-01 5.65E-04 5.57E-08 8.61E-04 7.44E-05 4.87E-04	Accumulated Lampartment, Effors; ADP-10s; ADP-10	Exceedance, E -terrestrial = E il = Abiotic del il or declared B2 1.78E-01 1.76E-01 1.11E-03 6.50E-04 8.90E-09 9.55E-04 1.74E-04	B3 0.00E+00	Eutrophicatio potential, Accusing resources potential, Accusing resources potential, Accusing resources potential, Accusing resources potential re	on potential, fra umulated Exce umulated Exce totential; WDP B5 0.00E+00	action of nutrie edance; POCF = Water (user) = Water (user) = Water (user) = B6 = 0.00E+00 = 0.00E+	nts reaching fr = Formation deprivation p industry) B7 0.00E+00	eshwater end potential of tro otential, depriv	compartment, pospheric azo atton-weighted	EP-marine = I ne; ADP-mine d water consult C3 5.46E+00 4.61E-04 8.70E-05 9.44E-09 9.97E-04 3.45E-05 5.12E-04	-5.26 -5.25 -5.08 -3.25 -3.77 -4.22 -2.20 -6.46 -7.03
Indicator GWP-total SWP-tossil GWP-biogenic SWP-Luluc AP ODP Feshwater EP-marine P-terrestrial POCP ADP- inerals&me	stratospher potential, fra Abio Unit kg CO2 eq kg CO3 eq	c ozone layer, ctdon of nutric tic depletion p A1-A3 8.43E+00 8.35E+00 6.33E-02 1.19E-02 1.77E-06 2.48E-02 9.28E-04 5.68E-03 5.47E-02	AP = Acidifica ents reaching i potential for no A4 1.16E-01 1.16E-01 4.64E-05 4.57E-05 2.68E-08 4.65E-04 7.49E-06 1.39E-04 1.52E-03	tion potential, marine end con-fossil resou con-fossil resou Results A5 5.52E-01 4.53E-01 1.07E-01 5.65E-04 5.57E-08 8.61E-04 7.44E-05 4.87E-04 1.15E-03	Accumulated Lampartment, Effors; ADP-fossions, ADP-fossions, and Control of the C	Exceedance, E -terrestrial = E il = Abiotic del il or declared B2 1.78E-01 1.76E-01 1.11E-03 6.50E-04 8.90E-09 9.55E-04 1.74E-04 1.70E-04 1.46E-03	B3 0.00E+00	Eutrophicatic potential, Accui protential, Accui il resources potential, Accui il resources potential, Accui il resources potential pote	n potential, fra fundated Exception (1) B5 0.00E+00 0.00E+00	action of nutrie edance; POCF = Water (user ife > Cement B6	nts reaching fr = Formation deprivation p industry) B7 0.00E+00	C1 0.00E+00	compartment, pospheric zoo atton-weighted C2 4.16E-02 4.15E-02 1.66E-05 1.63E-05 9.62E-09 1.69E-04 2.68E-06 5.08E-05 5.55E-04	EP-marine = I ne; ADP-mine d water consult C3 5.46E+00 4.61E-04 8.70E-05 9.44E-09 9.97E-04 3.45E-05 5.12E-04 4.37E-03	Eutrophii rals&me mption D -5.26i -5.25i -5.25i -5.08i -3.25i -2.20i -4.22i -2.20i -7.03i -7.03i
Indicator SWP-total SWP-tossil GWP-biogenic WP-Luluc AP ODP EP- reshwater P-terrestrial POCP ADP-	stratospher potential, fra Abio Unit kg CO2 eq kg CO2 eq kg CO2 eq kg CO2 eq kg CF1 eq mol H+ eq kg P eq kg Neq mol N eq kg Neq cq kg Neq co2 eq	c ozone layer, etchon of nutrie tic depletion processing to the pr	AP = Acidifica for no acidification of the first reaching in the f	tion potential, marrie end co- n-fossit resour A5 5.52E-01 4.53E-01 1.07E-01 5.65E-04 5.57E-08 8.61E-04 7.44E-05 4.87E-04 1.15E-03 7.29E-04	Accumulated I mpartment, EF ces; ADP-loss; BP functions B1	Exceedance, E	### Company Co	Eutrophicatic potential, Acculii resources potential, Acculii resources potential, Acculii resources potential, Acculii resources potential resources pote	n potential, fre unutated Exception (1) B5	action of nutries educace, POCF = Water (user) B6 0.00E+00	Internation of the control of the co	eshwater end potential of tro tential, deprivation of the contential of tro tential, deprivation of the contential of tro tential deprivation of the contential of the content	compartment, pospheric ozo aton-weighter ozo ato	EP-marine = Ine; ADP-mine water consult wate	Eutrophi rals&me mption

^{*} Disclaimer: The results of this environmental impact indicator shall be used with care as the uncertainties of these results are high or as there is limited experience with the indicator.



Use of resources

				Result	s per function	al or declared	unit - yarn we	ight 400-499 (g/m2 (End of L	ife -> Cement	Industry)				
Indicator	Unit	A1-A3	A4	A5	B1	B2	В3	B4	B5	В6	В7	C1	C2	СЗ	D
PERE	MJ, net CV	2.34E+01	2.48E-02	2.29E+00	0.00E+00	6.56E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.85E-03	1.08E-01	-2.57E-01
PERM	MJ, net CV	3.61E+00	0.00E+00	-1.47E+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
PERT	MJ, net CV	2.70E+01	2.48E-02	8.16E-01	0.00E+00	6.56E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.85E-03	1.08E-01	-2.57E-01
PENRE	MJ, net CV	1.38E+02	1.75E+00	4.34E+00	0.00E+00	3.75E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.28E-01	1.09E+00	-5.15E+00
PENRM	MJ, net CV	1.46E+01	0.00E+00	4.38E-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
PENRT	MJ, net CV	1.53E+02	1.75E+00	4.77E+00	0.00E+00	3.75E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.28E-01	1.09E+00	-5.14E+00
SM	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
RSF	MJ, net CV	7.09E-25	0.00E+00	2.13E-26	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, net CV	8.36E-24	0.00E+00	2.51E-25	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	m3	2.79E-02	6.65E-05	1.07E-03	0.00E+00	3.12E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-05	5.07E-03	5.38E-04

PERE * Use of renew able primary energy excluding renew able primary energy resources used as raw materials; PERM * Use of renew able primary energy resources used as raw materials; PERM * Use of non-renew able primary energy resources used as raw materials; PERM * Use of non-renew able primary energy resources used as raw materials; PERM * Use of non-renew able primary energy resources used as raw materials; PERM * Use of non-renew able primary energy resources used as raw materials; PERM * Use of non-renew able primary energy resources used as raw materials; PERM * Use of non-renew able primary energy resources used as raw materials; PERM * Use of non-renew able primary energy resources used as raw materials; PERM * Use of non-renew able primary energy resources used as raw materials; PERM * Use of non-renew able primary energy resources used as raw materials; PERM * Use of non-renew able primary energy resources used as raw materials; PERM * Use of non-renew able primary energy resources used as raw materials; PERM * Use of non-renew able primary energy resources used as raw materials; PERM * Use of non-renew able primary energy resources used as raw materials; PERM * Use of non-renew able primary energy resources used as raw materials; PERM * Use of non-renew able primary energy resources used as raw materials; PERM * Use of non-renew able primary energy resources used as raw materials; PERM * Use of non-renew able primary energy resources used as raw materials; PERM * Use of non-renew able primary energy resources used as raw materials; PERM * Use of non-renew able primary energy resources used as raw materials; PERM * Use of non-renew able primary energy resources used as raw materials; PERM * Use of non-renew able primary energy resources used as raw materials; PERM * Use of non-renew able primary energy resources used as raw materials; PERM * Use of non-renew able primary energy resources used as raw materials; PERM * Use of non-renew able primary energy resources used as raw materials; PERM * Use of no

				Results	s per function	al or declared	unit - yarn we	ight 500-599 (J/m2 (End of L	ife -> Cement	Industry)				
Indicator	Unit	A1-A3	A4	A 5	B1	B2	В3	B4	B5	В6	В7	C1	C2	С3	D
PERE	MJ, net CV	2.69E+01	2.48E-02	2.39E+00	0.00E+00	6.56E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.85E-03	1.12E-01	-2.64E-01
PERM	MJ, net CV	3.60E+00	0.00E+00	-1.47E+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
PERT	MJ, net CV	3.05E+01	2.48E-02	9.22E-01	0.00E+00	6.56E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.85E-03	1.12E-01	-2.64E-01
PENRE	MJ, net CV	1.53E+02	1.75E+00	4.80E+00	0.00E+00	3.75E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.28E-01	1.15E+00	-5.20E+00
PENRM	MJ, net CV	1.46E+01	0.00E+00	4.38E-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
PENRT	MJ, net CV	1.68E+02	1.75E+00	5.24E+00	0.00E+00	3.75E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.28E-01	1.15E+00	-5.20E+00
SM	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
RSF	MJ, net CV	8.50E-25	0.00E+00	2.55E-26	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, net CV	1.00E-23	0.00E+00	3.01E-25	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	m3	2.94E-02	6.65E-05	1.13E-03	0.00E+00	3.12E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-05	5.42E-03	5.07E-04

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, PERM = Total use of renewable primary energy resources used as raw materials, PERM = Use of non-renewable primary energy resources used as raw materials, PERM = Use of non-renewable primary energy resources used as raw materials, PERM = Use of non-renewable primary energy resources used as raw materials, PERM = Use of non-renewable primary energy resources used as raw materials, PERM = Use of non-renewable primary energy resources used as raw materials, PERM = Use of non-renewable primary energy resources used as raw materials, PERM = Total use of non-renewable primary energy resources used as raw materials, PERM = Total use of non-renewable primary energy resources used as raw materials, PERM = Total use of non-renewable primary energy resources used as raw materials, PERM = Total use of non-renewable primary energy resources used as raw materials, PERM = Total use of non-renewable primary energy resources used as raw materials, PERM = Total use of non-renewable primary energy resources used as raw materials, PERM = Total use of non-renewable primary energy resources used as raw materials, PERM = Total use of non-renewable primary energy resources used as raw materials, PERM = Total use of non-renewable primary energy resources used as raw materials, PERM = Total use of non-renewable primary energy resources used as raw materials, PERM = Total use of non-renewable primary energy resources used as raw materials, PERM = Total use of non-renewable primary energy resources used as raw materials, PERM = Total use of non-renewable primary energy resources used as raw materials, PERM = Total use of non-renewable primary energy resources used as raw materials, PERM = Total use of non-renewable primary energy resources used as raw materials, PERM = Total use of non-renewable primary energy resources used as raw materials, PERM = Total use of n

	Results per functional or declared unit - yarn weight 600-699 g/m2 (End of Life → Cement Industry)														
Indicator	Unit	A1-A3	A4	A5	B1	B2	В3	B4	B5	В6	В7	C1	C2	C3	D
PERE	MJ, net CV	3.05E+01	2.48E-02	2.50E+00	0.00E+00	6.56E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.85E-03	1.16E-01	-2.71E-01
PERM	MJ, net CV	3.60E+00	0.00E+00	-1.47E+00	0.00E+00										
PERT	MJ, net CV	3.41E+01	2.48E-02	1.03E+00	0.00E+00	6.56E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.85E-03	1.16E-01	-2.71E-01
PENRE	MJ, net CV	1.69E+02	1.75E+00	5.26E+00	0.00E+00	3.75E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.28E-01	1.20E+00	-5.26E+00
PENRM	MJ, net CV	1.46E+01	0.00E+00	4.37E-01	0.00E+00										
PENRT	MJ, net CV	1.83E+02	1.75E+00	5.70E+00	0.00E+00	3.75E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.28E-01	1.20E+00	-5.25E+00
SM	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
RSF	MJ, net CV	9.90E-25	0.00E+00	2.97E-26	0.00E+00										
NRSF	MJ, net CV	1.17E-23	0.00E+00	3.50E-25	0.00E+00										
FW	m3	3.09E-02	6.65E-05	1.18E-03	0.00E+00	3.12E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-05	5.77E-03	4.76E-04

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; PERM = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials; PERM = Use of non-renewable primary energy resources used as raw materials; PERM = Use of non-renewable primary energy resources used as raw materials; PERM = Use of non-renewable primary energy resources used as raw materials; PERM = Use of non-renewable primary energy resources; SM = Use of non-renewable primary energy resources; SM = Use of non-renewable resources; MESF = Use of non-renewable primary energy resources; MESF = Use of non-renewable primary energy resources used as raw materials; PERM = Use of non-renewable primary energy resources.



Waste production and output flows

				Results	s per function	al or declared	unit - yarn we	ight 400-499 ç	J/m2 (End of L	ife -> Cement	Industry)				
Indicator	Unit	A1-A3	Α4	A 5	B1	B2	В3	B4	B5	В6	В7	C1	C2	СЗ	D
Hazardous waste disposed	kg	3.67E-01	1.27E-03	1.49E-02	0.00E+00	3.85E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.54E-04	7.92E-02	-2.32E-01
Non- hazardous waste disposed	kg	1.01E+00	1.01E-01	1.70E-01	0.00E+00	5.01E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.59E-02	3.83E-02	-3.71E-01
Radioactive waste disposed	kg	9.64E-04	1.19E-05	3.01E-05	0.00E+00	2.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E-06	4.90E-06	-1.28E-05
Components for re-use	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
Material for recycling	kg	2.04E-01	0.00E+00	1.06E-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	2.62E+00
Materials for energy recovery	kg	8.35E-02	0.00E+00	1.20E-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	1.39E+00	0.00E+00
Exported energy, electricity	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	3.89E-01
Exported energy, thermal	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	3.89E-01

				Result	s per function	al or declared	unit - yarn we	ight 500-599 (j/m2 (End of L	ife -> Cement	Industry)				
Indicator	Unit	A1-A3	A4	A 5	B1	B2	В3	B4	B5	В6	В7	C1	C2	С3	D
Hazardous waste disposed	kg	3.66E-01	1.27E-03	1.51E-02	0.00E+00	3.85E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.54E-04	8.49E-02	-2.33E-01
Non- hazardous waste disposed	kg	1.02E+00	1.01E-01	1.71E-01	0.00E+00	5.01E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.59E-02	4.08E-02	-3.74E-01
Radioactive waste disposed	kg	1.09E-03	1.19E-05	3.40E-05	0.00E+00	2.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E-06	5.09E-06	-1.31E-05
Components for re-use	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
Material for recycling	kg	2.14E-01	0.00E+00	1.06E-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	2.62E+00
Materials for energy recovery	kg	8.34E-02	0.00E+00	1.23E-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	1.49E+00	0.00E+00
Exported energy, electricity	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	4.16E-01
Exported energy, thermal	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	4.16E-01

				Results	s per function	al or declared	unit - yarn we	ight 600-699 (j/m2 (End of L	ife -> Cement	Industry)				
Indicator	Unit	A1-A3	A4	A 5	B1	B2	В3	B4	B5	В6	В7	C1	C2	СЗ	D
Hazardous waste disposed	kg	3.66E-01	1.27E-03	1.52E-02	0.00E+00	3.85E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.54E-04	9.06E-02	-2.33E-01
Non- hazardous waste disposed	kg	1.03E+00	1.01E-01	1.71E-01	0.00E+00	5.01E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.59E-02	4.33E-02	-3.76E-01
Radioactive waste disposed	kg	1.22E-03	1.19E-05	3.79E-05	0.00E+00	2.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E-06	5.28E-06	-1.34E-05
Components for re-use	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
Material for recycling	kg	2.24E-01	0.00E+00	1.07E-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	2.62E+00
Materials for energy recovery	kg	8.32E-02	0.00E+00	1.26E-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	1.59E+00	0.00E+00
Exported energy, electricity	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	4.43E-01
Exported energy, thermal	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	4.43E-01



Information on biogenic carbon content

Results per functional or declared unit											
BIOGENIC CARBON CONTENT	Unit	QUANTITY									
BIOGENIC CARBON CONTENT	Unit	400-499	500-599	600-699							
Biogenic carbon content in product	kg C	4.61E-03	5.28E-03	5.95E-03							
Biogenic carbon content in packaging	kg C	1.09E-03									

Note: 1 kg biogenic carbon is equivalent to 44/12 kg CO₂.

References

General Programme Instructions of the International EPD® System. Version 3.01. PCR 2019:14. Version 1.11 c-PCR-004 Resilient, textile and laminate floor coverings (EN 16810).

