Environmental Product Declaration

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

iQ Range homogeneous vinyl flooring from TARKETT

Programme:	The International EPD® System. www.environdec.com
Programme operator:	EPD International AB
EPD registration number:	S-P-01346
Publication date:	2018-12-06
Revision date:	2023-09-25 (version 3)
Valid until:	2026-07-21

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 Sub-PCR-F 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: *M. 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.

This EPD was reviewed in July 2021 to extend product range and include progresses on energy mix used in the A3 phase. The EPD also now includes several end-of-life scenario, including a recycling scenario at post-consumer stage.

Differences versus previous version

2022-09-17 Version 1
Editorial change : Spelling corrections.

2023-06-20 Version 2
Editorial change: Expansion in the product range (addition of iQ Toro SC and iQ Granit SD).

2023-09-25 Version 3
Editorial change: Update in the iQ range. Removal of a product group (iQ Granit Acoustic) and a commercial reference (iQ Optima Multisafe). Renaming of a product (iQ Granit Multisafe to Granite Multisafe). Addition of a commercial reference (Granit Safe T). Change of contact information.

Company information

Owner of the EPD: Tarkett
Contact: Marcelo MARTINS MEIRA : marcelo.martinsmeira@tarkett.com. Tarkett La Défense, 1 Terrasse Bellini 92400 Paris
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 needs of customers. Our wide range of designs, colours and models provide, 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 commitment to the environment is also proven by the accession to the Circular Economy 100 program. where Tarkett group, with a network of companies, is working to develop a circular economy model based on the reuse of materials and preservation of natural resources. 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.

Product-related or management system-related certifications: ISO 9001, ISO 14001, ISO 50001, WCM manufacturing site.
Name and location of production site(s): Ronneby, Sweden

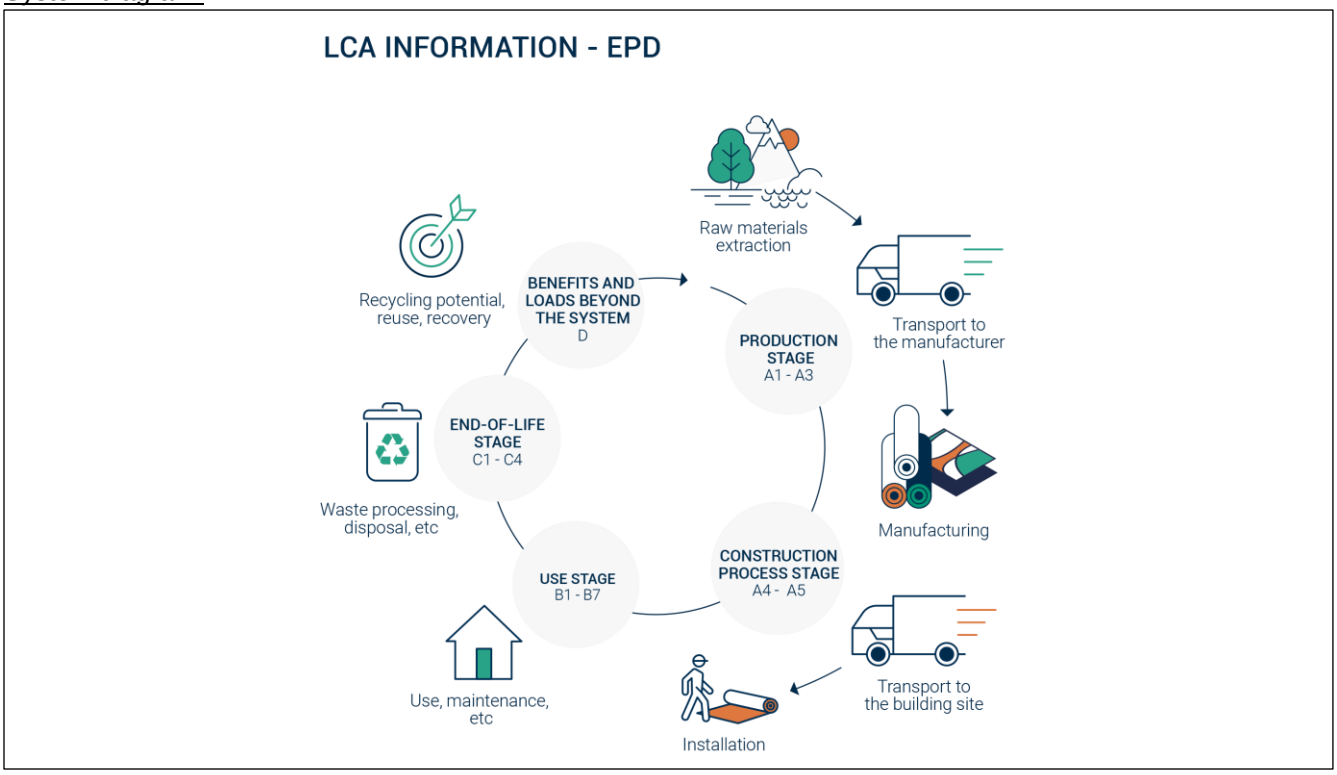
Product information

Product Name: iQ Megalit, iQ Eminent, iQ Granit, Granit Multisafe, Granit Safe T, iQ Optima, iQ Surface, iQ Toro SC, iQ Granit SD.
Product identification: Homogeneous poly (vinyl chloride) floor covering (ISO 10581)
Product description: iQ Range products are homogeneous vinyl floorings. They are tough and ultra-durable solutions for heavy and very heavy traffic areas, especially recommended for applications in healthcare and education for their resistance and ease of cleaning. Composed of a single compact layer of vinyl, homogeneous vinyl floors are glued to the subfloor and welded for optimal durability and hygiene. The service lifetime recommended by Tarkett is 30 years
UN CPC code: APE/NAF - 2223Z

LCA information

Functional unit / declared unit: 1m^2 of floor covering with a reference service life (RSL) of 1 year for specified characteristics application and use areas according to ISO 10581 and EN ISO 10874.
Reference service life: 30 years
Time representativeness: 2020
Database(s) and LCA software used: Ecoinvent3.6. SimaPro 9.1
Description of system boundaries: Cradle to grave and module D (A + B + C + D)

System diagram:



More information: The product is classified in accordance with EN ISO 10874. EN 685 and in reference to the FCSS (Floor Covering Standard Symbols) to be installed in various areas of application, such as: healthcare, education, commercial, education. The area of use according to the ISO 10874 is very heavy (34) for commercial classification and heavy (43) for industrial classification.

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

	Product stage		Construction process stage			Use stage							End of life stage				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	**A1**	**A2**	**A3**	**A4**	**A5**	**B1**	**B2**	**B3**	**B4**	**B5**	**B6**	**B7**	**C1**	**C2**	**C3**	**C4**	**D**
Modules declared	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Geography	European technology and process coverage																European
Specific data used	-	100%	100%	100%	100%	-	-	-	-	-	-	-	-	-	100% For recycling process		100% For recycling process
Variation – products	Compact iQs: -5% to +7% Multisafe iQs: +1%			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variation – sites	-	-	-	European average for Tarkett		-	-	-	-	-	-	-	-	-	-	-	-

Content information

According to PCR 2019:14 v1.11. several similar products can be included in the same EPD if ”differences between the mandatory impact indicators lower than ±10% (concerning A1-A3) could be presented using the impacts of a representative product”. The next table presents how products are grouped :

Product	Weight. kg/m²	Representative product group
iQ Eminent	2.75E+00	iQ Range - Compact
iQ Granit	2.75E+00	
iQ Megalit	2.50E+00	
iQ Optima	2.70E+00	
iQ Surface	2.80E+00	
iQ Toro SC	2.80E+00	
iQ Granit SD	2.80E+00	
Granit Multisafe	3.01E+00	iQ Range - Multisafe
Granit Safe T	2.95E+00	

The components for iQ Range compact group are detailed here:

iQ Range – Compact products			
Product components	**Weight. kg/m²**	**Post-consumer material. weight-%**	**Renewable material. weight-%**
PVC Suspension	1.30E+00	0%	0%
Plasticizer	4.04E-01	0%	0%
Epoxidised soya bean oil	1.29E-01	0%	83%
Mineral fillers	8.07E-01	0%	0%
Stabilizer CaZn	1.80E-03	0%	0%
Titanium dioxide	3.20E-02	0%	0%
Pigments	3.00E-03	0%	0%
Surface Treatment	1.90E-02	0%	0%
Post-installation and Post-consumer recycled flooring	1.20E-02	100%	0%
Additives	9.00E-03	0%	0%
TOTAL	2.72E+00	0.4%	4%
Packaging materials	**Weight. kg/m²**	**Weight-% (versus the product)**	
Product Packaging Cardboard	4.02E-02	1.5%	
Product Packaging PEHD	1.52E-02	0.6%	
Product Packaging PELD	1.52E-02	0.6%	
TOTAL	5.22E-03	0.2%	

The components for iQ Range Multisafe group are detailed here:

iQ Range – Multisafe products			
Product components	**Weight. kg/m²**	**Post-consumer material. weight-%**	**Renewable material. weight-%**
PVC Suspension	1.37E+00	0%	0%
Plasticizer	4.33E-01	0%	0%
Epoxidised soya bean oil	1.36E-01	0%	83%
Mineral fillers	9.28E-01	0%	0%
Stabilizer CaZn	1.80E-03	0%	0%
Titanium dioxide	4.10E-02	0%	0%
Pigments	2.00E-03	0%	0%
Surface Treatment	1.90E-02	0%	0%
Post-installation and Post-consumer recycled flooring	1.20E-02	100%	0%
Additives	9.00E-03	0%	0%
TOTAL	2.95E+00	0.4%	4%
Packaging materials	**Weight. kg/m²**	**Weight-% (versus the product)**	
Product Packaging Cardboard	4.02E-02	1.4%	
Product Packaging PEHD	1.52E-02	0.5%	
Product Packaging PELD	1.52E-02	0.5%	
TOTAL	5.22E-03	0.2%	

Product manufacturing

Production process

The production of the homogeneous resilient flooring is divided into the following stages:
- Extrusion: Raw materials is blended and extruded to obtain a malleable material.
- Calendaring: Rolls are then calendered to get the desired shape.
- Pressing: Rolls are cut at the desired characteristics.
- Packaging: The final product is placed into cardboard cases with discs and plastic hangers positioned at the ends. The cardboard cases are then wrapped in plastic film.

Production waste

Waste type	Amount	Unit
Internal recycling - Post manufacturing - Own production	7.81E-01	kg/m²
Non-hazardous waste to external incineration	4.07E-02	kg/m²
Non-hazardous waste to external recycling	3.95E-03	kg/m²
Non-hazardous waste to external treatment	4.78E-03	kg/m²
Hazardous waste to external recycling	5.70E-03	kg/m²
Hazardous waste to incineration	3.72E-03	kg/m²
Hazardous waste to external treatment	3.80E-03	kg/m²
Non-hazardous wastewater to external treatment	9.22E-04	kg/m²
Hazardous wastewater to external incineration	1.47E-04	kg/m²

NB: Post manufacturing recycling concerns the recycling of the losses inside the plant production. Therefore. there is no end-of-life impact on losses (except the recycling preparation). Post-manufacturing recycled content is 25%.

Electricity mix

The electricity mix purchased at the manufacturing facility has the following carbon footprint:

Indicator	Amount	Unit
GWP-GHG	1.50E-02	kgCO2eq/Kwh

Health. safety and environmental aspects during production

iQ Range production site complies with the ISO 14001 Environmental Management System and the ISO 9001 Quality Management System.

Delivery and installation

Delivery

The average distribution distance between the factory and the installation site is 766 km. It has been calculated considering the average distance between European countries where Tarkett is selling the iQ Range products and the factory plant in Ronneby (Sweden). The distribution is made by truck.

Installation

The product is glued on the subfloor. then the different parts of the flooring are welded together.

Description	Amount	Unit
Electricity consumption	3.35E-02	kWh/m²
Acrylic adhesive consumption	2.50E-01	kg/m²

Waste

During the installation approximately 10% of the flooring is lost as off-cuts. Thanks to the Restart program, Tarkett offers to all its customer flooring installers a free take-back system for installation off-cuts. including equipment. logistics and recycling. This analysis therefore considers a recycling scenario of the offcuts[1]

Packaging

50 % of the packaging materials goes to incineration and 50 % goes to landfill.

[1] Current recycling rate for iQ Range offcuts is 4%

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 Homogeneous polyvinylchloride floor covering 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 ISO10874 in accordance with the product's classification. **The service lifetime recommended by Tarkett is 30 years**.

Cleaning and maintenance

Cleaning regime is based on traditional cleaning protocol integrating manual and mechanical operations. Depending on premises considered, these consumptions may vary. The considered regime fits high traffic areas. The maintenance scenario is :

- **Common maintenance: 4 times a week**
- **Periodic maintenance: twice a year**

Description	Amount	Unit
Electricity consumption	1.13E-01	kWh/year/m^2
Water consumption	5.14E+00	L/year/m^2
Detergent consumption	7.00E-02	L/year/m^2

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

3 distinct End-of-Life scenarios have been modeled for iQ Range. Tarkett recommend using the ReStart program at End-of-Use to recycle the product. However, to showcase the value of Tarkett's recycling activities, environmental impacts of two alternative scenarios have been calculated.

Recycling /R

100% of the iQ products can be recycled at its end of use stage, thanks to the ReStart® program, enabling Tarkett to collect installation losses and post-use flooring from construction sites to recycle it and/or re-use it as high quality raw material back in Tarkett plants. Tarkett has developped a new technology that cleans, shreds and recycles previously unusable post-consumer vinyl. Thus, iQ Range is recycled back at the Ronneby plant. and the transport between construction site and recycling facility is 766 km by truck. Environmental impacts of recycling are presented in module **C/R**.

Incineration with energy recovery /I

Incineration with energy recovery is a rising waste management method in many of the countries in wich iQ Range is sold. While Tarkett wishes to recycle 100% of sold iQ Range, incineration with energy recovery is an alternative option if recycling is impossible. Environmental impacts of incineration with energy recovery are presented in module **C/I**.

Landfilling /L

Landfilling waste is still a proheminent waste management scenario. This option is however not recommanded by Tarkett. Environmental impacts of landfilling are presented in module **C/L**.

Benefits and loads beyond system boundary

Recycling /R

The benefit is due to the recycling post-use flooring that allows avoiding the emissions of virgin materials. iQ Range can be 100% recycled at post-installation and post-consumer stage. Post-consumer recycling process currently has an efficiency of 90%. Benefits from avoided raw material production and avoided transport are calculated in module **D/R**.

Incineration with energy recovery /I

Benefits from installation offcuts recycling and incineration energy recovery are calculated in **D/I**.

Landfilling /L

Benefits accounted in this scenario exclusively come from installation offcuts recycling and are presented in **D/L**

Results for product group 1

iQ Eminent
iQ Granit
iQ Megalit
iQ Optima
iQ Surface
iQ Toro SC
iQ Granit SD

Environmental Information

Potential environmental impact in case of recycling at End-of-use

Results per functional or declared unit in case of recycling - iQ Range Compact																
Indicator	**Unit**	**A1-A3**	**A4**	**A5**	**B1**	**B2**	**B3**	**B4**	**B5**	**B6**	**B7**	**C1/R**	**C2/R**	**C3/R**	**C4/R**	**D/R**
GWP-total	kg CO_2 eq.	5.24E+00	2.51E-01	1.32E+00	0.00E+00	2.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.11E-01	5.95E-01	8.77E-01	-5.29E+00
GWP-Fossil	kg CO_2 eq.	5.17E+00	2.51E-01	1.24E+00	0.00E+00	1.27E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.11E-01	5.94E-01	0.00E+00	-5.25E+00
GWP- biogenic	kg CO_2 eq.	-8.35E-01	1.34E-04	-1.50E-02	0.00E+00	2.96E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-04	4.18E-05	8.77E-01	8.39E-01
GWP- Luluc	kg CO_2 eq.	9.07E-01	8.79E-05	9.12E-02	0.00E+00	1.00E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-04	3.28E-06	0.00E+00	-8.86E-01
AP	mol H^+ eq.	3.07E-02	1.02E-03	1.19E-02	0.00E+00	1.27E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-03	1.37E-04	0.00E+00	-3.03E-02
ODP	kgCFC11 eq	1.93E-06	5.71E-08	2.74E-07	0.00E+00	1.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-07	1.41E-09	0.00E+00	-1.70E-06
EP-freshwater	kg P eq	1.81E-03	1.84E-05	4.74E-04	0.00E+00	8.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.47E-05	1.69E-06	0.00E+00	-1.81E-03
EP-freshwater	kg PO4 eq	5.55E-03	5.66E-05	1.46E-03	0.00E+00	2.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04	5.20E-06	0.00E+00	-5.57E-03
EP-marine	kg N eq.	9.93E-03	3.05E-04	1.83E-03	0.00E+00	1.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.49E-04	7.71E-05	0.00E+00	-9.38E-03
EP-terrestrial	mol N eq.	5.98E-02	3.34E-03	1.37E-02	0.00E+00	4.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.19E-03	6.58E-04	0.00E+00	-5.67E-02
POCP	kg NMVOC eq.	1.89E-02	1.02E-03	4.71E-03	0.00E+00	5.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-03	1.59E-04	0.00E+00	-1.84E-02
ADP-minerals&metals*	kg Sb eq.	4.72E-04	6.81E-06	6.30E-05	0.00E+00	5.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-05	1.99E-07	0.00E+00	-4.68E-04
ADP-Fossil*	MJ	1.65E+02	3.79E+00	2.84E+01	0.00E+00	1.88E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.22E+00	1.08E-01	0.00E+00	-1.05E+02
WDP	m^3	7.44E+00	1.06E-02	1.38E+00	0.00E+00	2.28E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-02	2.82E-02	0.00E+00	-6.34E+00
Acronyms	GWP-fossil = Global Warming Potential fossil fuels; GWP-biogenic = Global Warming Potential biogenic; GWP-luluc = Global Warming Potential land use and land use change; ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential. Accumulated Exceedance; EP-freshwater = Eutrophication potential. fraction of nutrients reaching freshwater end compartment; EP-marine = Eutrophication potential. fraction of nutrients reaching marine end compartment; EP-terrestrial = Eutrophication potential. Accumulated Exceedance; POCP = Formation potential of tropospheric ozone; ADP-minerals&metals = Abiotic depletion potential for non-fossil resources; ADP-fossil = Abiotic depletion for fossil resources potential; WDP = Water (user) deprivation potential. deprivation-weighted water consumption															

Environmental Information

Potential environmental impact in case of recycling at End-of-use

Results per functional or declared unit in case of recycling - iQ Range Compact																
Indicator	**Unit**	**A1-A3**	**A4**	**A5**	**B1**	**B2**	**B3**	**B4**	**B5**	**B6**	**B7**	**C1/R**	**C2/R**	**C3/R**	**C4/R**	**D/R**
PERE	MJ	1.48E+01	5.35E-02	2.45E+00	0.00E+00	8.69E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-01	4.12E-03	0.00E+00	-1.28E+01
PERM	MJ	5.23E+00	0.00E+00	5.23E-01	0.00E+00	7.29E-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	-4.64E+00
PERT	MJ	2.00E+01	5.35E-02	2.97E+00	0.00E+00	1.60E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-01	4.12E-03	0.00E+00	-1.75E+01
PENRE	MJ	1.36E+02	3.79E+00	1.76E+01	0.00E+00	2.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.21E+00	1.08E-01	0.00E+00	-7.70E+01
PENRM	MJ.	2.95E+01	0.00E+00	1.08E+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	-2.86E+01
PENRT	MJ	1.66E+02	3.79E+00	2.84E+01	0.00E+00	2.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.21E+00	1.08E-01	0.00E+00	-1.06E+02
SM	kg	1.20E-02	0.00E+00	1.20E-03	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	2.98E+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	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	0.00E+00
FW	m^3	1.49E-01	3.92E-04	3.16E-02	0.00E+00	1.04E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.51E-04	8.79E-04	0.00E+00	-1.13E-01
Acronyms	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 re-sources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Use of net fresh water															

Waste production and output flows in case of recycling at End-of-use

Waste production

Results per functional or declared unit in case of recycling - iQ Range Compact															
Indicator	**Unit**	**A1-A3**	**A4**	**A5**	**B1**	**B2**	**B3**	**B4**	**B5**	**B6**	**B7**	**C1/R**	**C2/R**	**C3/R**	**C4/R**	**D/R**
Hazardous waste disposed	kg	2.50E-01	2.44E-03	1.17E-01	0.00E+00	1.31E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.93E-03	1.42E-02	0.00E+00	-2.14E-01
Non-hazardous waste disposed	kg	1.85E+00	1.99E-01	6.87E-01	0.00E+00	5.45E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.84E-01	3.56E-03	0.00E+00	-1.77E+00
Radioactive waste disposed	kg	1.05E-03	2.58E-05	1.49E-04	0.00E+00	1.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.28E-05	2.82E-07	0.00E+00	-1.08E-04

Output flows

Results per functional or declared unit in case of recycling - iQ Range Compact															
Indicator	**Unit**	**A1-A3**	**A4**	**A5**	**B1**	**B2**	**B3**	**B4**	**B5**	**B6**	**B7**	**C1/R**	**C2/R**	**C3/R**	**C4/R**	**D/R**
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	0.00E+00
Material for recycling	kg	3.95E-03	0.00E+00	2.72E-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	2.45E+00	0.00E+00
Materials for energy recovery	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	2.50E-01	0.00E+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	2.36E+00	0.00E+00	0.00E+00
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	2.36E+00	0.00E+00	0.00E+00

Additional indicator

Results per functional or declared unit in case of recycling - iQ Range Compact																
Indicator	**Unit**	**A1-A3**	**A4**	**A5**	**B1**	**B2**	**B3**	**B4**	**B5**	**B6**	**B7**	**C1/R**	**C2/R**	**C3/R**	**C4/R**	**D/R**
GWP-GHG[1]	kg CO_2 eq.	6.08E+00	2.51E-01	1.33E+00	0.00E+00	2.27E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.11E-01	5.94E-01	0.00E+00	-6.13E+00

[1] GWP-GHG is the sum of GWP-Fossil and GWP-LULUC indicators

Additional information – Potential impacts and flows in case of incineration

Results per functional or declared unit in case of incineration - iQ Range Compact						
Indicator	**Unit**	**C1/I**	**C2/I**	**C3/I**	**C4/I**	**D/I**
GWP-total	kg CO_2 eq.	0.00E+00	1.49E-02	6.35E+00	3.48E-03	-3.11E+00
GWP-Fossil	kg CO_2 eq.	0.00E+00	1.49E-02	5.46E+00	3.48E-03	-3.07E+00
GWP- biogenic	kg CO_2 eq.	0.00E+00	7.92E-06	8.86E-01	6.89E-06	5.79E-02
GWP- Luluc	kg CO_2 eq.	0.00E+00	5.19E-06	5.78E-04	9.69E-07	-9.25E-02
AP	mol H^+ eq.	0.00E+00	6.07E-05	4.52E-03	3.30E-05	-1.30E-02
ODP	kgCFC11 eq	0.00E+00	3.37E-09	1.92E-07	1.43E-09	-4.95E-07
EP-freshwater	kg P eq	0.00E+00	1.09E-06	2.66E-04	3.57E-07	-1.05E-03
EP-freshwater	kg PO4 eq	0.00E+00	7.61E-08	1.86E-05	2.50E-08	-7.35E-05
EP-marine	kg N eq.	0.00E+00	1.82E-05	1.34E-03	1.14E-05	-2.49E-03
EP-terrestrial	mol N eq.	0.00E+00	1.99E-04	1.23E-02	1.25E-04	-2.14E-02
POCP	kg NMVOC eq.	0.00E+00	6.10E-05	3.38E-03	3.63E-05	-6.42E-03
ADP-minerals&metals*	kg Sb eq.	0.00E+00	4.02E-07	3.08E-05	3.18E-08	-5.00E-05
ADP-Fossil*	MJ	0.00E+00	2.24E-01	9.10E+00	9.72E-02	-5.29E+01
WDP	m^3	0.00E+00	6.23E-04	8.37E+00	4.36E-03	-8.64E-01

Results per functional or declared unit in case of incineration - iQ Range Compact						
Indicator	**Unit**	**C1/I**	**C2/I**	**C3/I**	**C4/I**	**D/I**
PERE	MJ	0.00E+00	3.16E-03	8.16E-01	7.86E-04	-4.67E+00
PERM	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-4.64E-01
PERT	MJ	0.00E+00	3.16E-03	8.16E-01	7.86E-04	-5.14E+00
PENRE	MJ	0.00E+00	2.24E-01	9.09E+00	9.72E-02	-4.98E+01
PENRM	MJ.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-2.86E+00
PENRT	MJ	0.00E+00	2.24E-01	9.08E+00	9.72E-02	-5.27E+01
SM	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-01
RSF	MJ	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
FW	m^3	0.00E+00	2.31E-05	2.53E-01	1.03E-04	-2.72E-02

Results per functional or declared unit in case of incineration - iQ Range Compact						
Indicator	**Unit**	**C1/I**	**C2/I**	**C3/I**	**C4/I**	**D/I**
Hazardous waste disposed	kg	0.00E+00	1.44E-04	1.57E+00	5.73E-05	-4.78E-02
Non-hazardous waste disposed	kg	0.00E+00	1.18E-02	3.10E-01	6.60E-01	-6.50E-01
Radioactive waste disposed	kg	0.00E+00	1.53E-06	4.36E-05	6.38E-07	-1.99E-04

Results per functional or declared unit in case of incineration - iQ Range Compact						
Indicator	**Unit**	**C1/I**	**C2/I**	**C3/I**	**C4/I**	**D/I**
Components for re-use	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Material for recycling	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for energy recovery	kg	0.00E+00	0.00E+00	2.97E+00	0.00E+00	0.00E+00
Exported energy. electricity	MJ	0.00E+00	0.00E+00	3.98E+01	0.00E+00	-5.19E+00
Exported energy. thermal	MJ	0.00E+00	0.00E+00	3.98E+01	0.00E+00	-1.53E+01

Additional information – Potential impacts and flows in case of landfilling

Results per functional or declared unit in case of landfilling - iQ Range Compact						
Indicator	**Unit**	**C1/L**	**C2/L**	**C3/L**	**C4/L**	**D/L**
GWP-total	kg CO_2 eq.	0.00E+00	1.49E-02	0.00E+00	1.12E+00	-4.97E-01
GWP-Fossil	kg CO_2 eq.	0.00E+00	1.49E-02	0.00E+00	2.43E-01	-4.94E-01
GWP- biogenic	kg CO_2 eq.	0.00E+00	7.92E-06	0.00E+00	8.77E-01	8.76E-02
GWP- Luluc	kg CO_2 eq.	0.00E+00	5.19E-06	0.00E+00	6.14E-06	-9.06E-02
AP	mol H^+ eq.	0.00E+00	6.07E-05	0.00E+00	2.23E-04	-2.94E-03
ODP	kgCFC11 eq	0.00E+00	3.37E-09	0.00E+00	9.24E-09	-1.71E-07
EP-freshwater	kg P eq	0.00E+00	1.09E-06	0.00E+00	2.73E-06	-1.72E-04
EP-freshwater	kg PO4 eq	0.00E+00				
EP-marine	kg N eq.	0.00E+00	1.82E-05	0.00E+00	1.16E-03	-9.41E-04
EP-terrestrial	mol N eq.	0.00E+00	1.99E-04	0.00E+00	8.94E-04	-5.60E-03
POCP	kg NMVOC eq.	0.00E+00	6.10E-05	0.00E+00	3.07E-04	-1.79E-03
ADP-minerals&metals*	kg Sb eq.	0.00E+00	4.02E-07	0.00E+00	2.21E-07	-4.69E-05
ADP-Fossil*	MJ	0.00E+00	2.24E-01	0.00E+00	6.74E-01	-1.10E+01
WDP	m^3	0.00E+00	6.23E-04	0.00E+00	3.08E-03	-6.73E-01
Results per functional or declared unit in case of landfilling - iQ Range Compact						
Indicator	**Unit**	**C1/L**	**C2/L**	**C3/L**	**C4/L**	**D/L**
PERE	MJ	0.00E+00	3.16E-03	0.00E+00	2.58E-02	-1.48E+00
PERM	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-4.64E-01
PERT	MJ	0.00E+00	3.16E-03	0.00E+00	2.58E-02	-1.94E+00
PENRE	MJ	0.00E+00	2.24E-01	0.00E+00	6.73E-01	-8.21E+00
PENRM	MJ.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-2.86E+00
PENRT	MJ	0.00E+00	2.24E-01	0.00E+00	6.73E-01	-1.11E+01
SM	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-01
RSF	MJ	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
FW	m^3	0.00E+00	2.31E-05	0.00E+00	8.29E-04	-1.31E-02
Results per functional or declared unit in case of landfilling - iQ Range Compact						
Indicator	**Unit**	**C1/L**	**C2/L**	**C3/L**	**C4/L**	**D/L**
Hazardous waste disposed	kg	0.00E+00	1.44E-04	0.00E+00	6.68E-04	-2.16E-02
Non-hazardous waste disposed	kg	0.00E+00	1.18E-02	0.00E+00	2.98E+00	-1.74E-01
Radioactive waste disposed	kg	0.00E+00	1.53E-06	0.00E+00	4.40E-06	-2.18E-05
Results per functional or declared unit in case of landfilling - iQ Range Compact						
Indicator	**Unit**	**C1/L**	**C2/L**	**C3/L**	**C4/L**	**D/L**
Components for re-use	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Material for recycling	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for energy recovery	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exported energy. electricity	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exported energy. thermal	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Results for product group 2

Granit Multisafe
Granit Safe T

Environmental Information

Potential environmental impact in case of recycling at End-of-use

Results per functional or declared unit in case of recycling - Granit Multisafe / Granit Safe T																
Indicator	**Unit**	**A1-A3**	**A4**	**A5**	**B1**	**B2**	**B3**	**B4**	**B5**	**B6**	**B7**	**C1/R**	**C2/R**	**C3/R**	**C4/R**	**D/R**
GWP-total	kg CO_2 eq.	5.62E+00	2.72E-01	1.36E+00	0.00E+00	2.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.59E-01	5.95E-01	8.97E-01	-5.67E+00
GWP-Fossil	kg CO_2 eq.	5.51E+00	2.72E-01	1.28E+00	0.00E+00	1.27E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.58E-01	5.94E-01	0.00E+00	-5.58E+00
GWP- biogenic	kg CO_2 eq.	-8.70E-01	1.45E-04	-1.85E-02	0.00E+00	2.96E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-04	4.18E-05	8.97E-01	8.70E-01
GWP- Luluc	kg CO_2 eq.	9.76E-01	9.52E-05	9.82E-02	0.00E+00	1.00E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-04	3.28E-06	0.00E+00	-9.54E-01
AP	mol H^+ eq.	3.34E-02	1.11E-03	1.22E-02	0.00E+00	1.27E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-03	1.37E-04	0.00E+00	-3.30E-02
ODP	kgCFC11 eq	2.04E-06	6.18E-08	2.86E-07	0.00E+00	1.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-07	1.41E-09	0.00E+00	-1.80E-06
EP-freshwater	kg P eq	1.93E-03	1.99E-05	4.86E-04	0.00E+00	8.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.82E-05	1.69E-06	0.00E+00	-1.93E-03
EP-freshwater	kg PO4 eq	5.92E-03	6.12E-05	1.49E-03	0.00E+00	2.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04	5.20E-06	0.00E+00	-5.93E-03
EP-marine	kg N eq.	1.06E-02	3.30E-04	1.90E-03	0.00E+00	1.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.07E-04	7.71E-05	0.00E+00	-1.00E-02
EP-terrestrial	mol N eq.	6.38E-02	3.61E-03	1.42E-02	0.00E+00	4.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.83E-03	6.58E-04	0.00E+00	-6.06E-02
POCP	kg NMVOC eq.	2.02E-02	1.11E-03	4.86E-03	0.00E+00	5.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-03	1.59E-04	0.00E+00	-1.97E-02
ADP-minerals&metals*	kg Sb eq.	5.20E-04	7.37E-06	6.79E-05	0.00E+00	5.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05	1.99E-07	0.00E+00	-5.15E-04
ADP-Fossil*	MJ	1.72E+02	4.10E+00	2.92E+01	0.00E+00	1.88E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.93E+00	1.08E-01	0.00E+00	-1.11E+02
WDP	m^3	7.90E+00	1.14E-02	1.43E+00	0.00E+00	2.28E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-02	2.82E-02	0.00E+00	-6.75E+00
Acronyms	GWP-fossil = Global Warming Potential fossil fuels; GWP-biogenic = Global Warming Potential biogenic; GWP-luluc = Global Warming Potential land use and land use change; ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential. Accumulated Exceedance; EP-freshwater = Eutrophication potential. fraction of nutrients reaching freshwater end compartment; EP-marine = Eutrophication potential. fraction of nutrients reaching marine end compartment; EP-terrestrial = Eutrophication potential. Accumulated Exceedance; POCP = Formation potential of tropospheric ozone; ADP-minerals&metals = Abiotic depletion potential for non-fossil resources; ADP-fossil = Abiotic depletion for fossil resources potential; WDP = Water (user) deprivation potential. deprivation-weighted water consumption															

Environmental Information

Potential environmental impact in case of recycling at End-of-use

Results per functional or declared unit in case of recycling - Granit Multisafe / Granit Safe T																
Indicator	**Unit**	**A1-A3**	**A4**	**A5**	**B1**	**B2**	**B3**	**B4**	**B5**	**B6**	**B7**	**C1/R**	**C2/R**	**C3/R**	**C4/R**	**D/R**
PERE	MJ	1.57E+01	5.80E-02	2.55E+00	0.00E+00	8.69E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-01	4.12E-03	0.00E+00	-1.36E+01
PERM	MJ	5.62E+00	0.00E+00	5.62E-01	0.00E+00	7.29E-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	-5.04E+00
PERT	MJ	2.14E+01	5.80E-02	3.11E+00	0.00E+00	1.60E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-01	4.12E-03	0.00E+00	-1.86E+01
PENRE	MJ	1.42E+02	4.10E+00	1.82E+01	0.00E+00	2.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.93E+00	1.08E-01	0.00E+00	-8.16E+01
PENRM	MJ.	3.12E+01	0.00E+00	1.10E+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	-3.03E+01
PENRT	MJ	1.73E+02	4.10E+00	2.92E+01	0.00E+00	2.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.92E+00	1.08E-01	0.00E+00	-1.12E+02
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	3.25E+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	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	0.00E+00
FW	m^3	1.58E-01	4.24E-04	3.26E-02	0.00E+00	1.04E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-03	8.79E-04	0.00E+00	-1.20E-01
Acronyms	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 re-sources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Use of net fresh water															

Waste production and output flows in case of recycling at End-of-use

Waste production

Results per functional or declared unit in case of recycling - Granit Multisafe / Granit Safe T															
Indicator	**Unit**	**A1-A3**	**A4**	**A5**	**B1**	**B2**	**B3**	**B4**	**B5**	**B6**	**B7**	**C1/R**	**C2/R**	**C3/R**	**C4/R**	**D/R**
Hazardous waste disposed	kg	2.69E-01	2.64E-03	1.19E-01	0.00E+00	1.31E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.38E-03	1.42E-02	0.00E+00	-2.33E-01
Non-hazardous waste disposed	kg	2.00E+00	2.16E-01	7.06E-01	0.00E+00	5.45E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.22E-01	3.56E-03	0.00E+00	-1.92E+00
Radioactive waste disposed	kg	1.07E-03	2.80E-05	1.51E-04	0.00E+00	1.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.77E-05	2.82E-07	0.00E+00	-1.12E-04

Output flows

Results per functional or declared unit in case of recycling - Granit Multisafe / Granit Safe T																
Indicator	**Unit**	**A1-A3**	**A4**	**A5**	**B1**	**B2**	**B3**	**B4**	**B5**	**B6**	**B7**	**C1/R**	**C2/R**	**C3/R**	**C4/R**	**D/R**
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	0.00E+00
Material for recycling	kg	3.95E-03	0.00E+00	2.95E-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	2.66E+00	0.00E+00
Materials for energy recovery	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	2.50E-01	0.00E+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	2.36E+00	0.00E+00	0.00E+00
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	2.36E+00	0.00E+00	0.00E+00

Additional indicator

Results per functional or declared unit in case of recycling - Granit Multisafe / Granit Safe T																
Indicator	**Unit**	**A1-A3**	**A4**	**A5**	**B1**	**B2**	**B3**	**B4**	**B5**	**B6**	**B7**	**C1/R**	**C2/R**	**C3/R**	**C4/R**	**D/R**
GWP-GHG[2]	kg CO_2 eq.	6.49E+00	2.72E-01	1.38E+00	0.00E+00	2.27E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.58E-01	5.94E-01	0.00E+00	-6.54E+00

[2] GWP-GHG is the sum of GWP-Fossil and GWP-LULUC indicators

Additional information – Potential impacts and flows in case of incineration

Results per functional or declared unit in case of incineration – Granit Multisafe / Granit Safe T						
Indicator	**Unit**	**C1/I**	**C2/I**	**C3/I**	**C4/I**	**D/I**
GWP-total	kg CO_2 eq.	0.00E+00	1.60E-02	6.83E+00	3.48E-03	-3.33E+00
GWP-Fossil	kg CO_2 eq.	0.00E+00	1.60E-02	5.92E+00	3.48E-03	-3.29E+00
GWP- biogenic	kg CO_2 eq.	0.00E+00	8.54E-06	9.07E-01	6.89E-06	5.93E-02
GWP- Luluc	kg CO_2 eq.	0.00E+00	5.59E-06	6.27E-04	9.69E-07	-9.96E-02
AP	mol H^+ eq.	0.00E+00	6.54E-05	4.89E-03	3.30E-05	-1.40E-02
ODP	kgCFC11 eq	0.00E+00	3.64E-09	2.08E-07	1.43E-09	-5.29E-07
EP-freshwater	kg P eq	0.00E+00	1.17E-06	2.88E-04	3.57E-07	-1.12E-03
EP-freshwater	kg PO4 eq	0.00E+00	3.60E-06	8.84E-04	1.10E-06	-3.45E-03
EP-marine	kg N eq.	0.00E+00	1.96E-05	1.44E-03	1.14E-05	-2.67E-03
EP-terrestrial	mol N eq.	0.00E+00	2.15E-04	1.33E-02	1.25E-04	-2.29E-02
POCP	kg NMVOC eq.	0.00E+00	6.57E-05	3.66E-03	3.63E-05	-6.88E-03
ADP-minerals&metals*	kg Sb eq.	0.00E+00	4.33E-07	3.34E-05	3.18E-08	-5.49E-05
ADP-Fossil*	MJ	0.00E+00	2.41E-01	9.86E+00	9.72E-02	-5.66E+01
WDP	m^3	0.00E+00	6.72E-04	9.08E+00	4.36E-03	-9.23E-01
Results per functional or declared unit in case of incineration - Granit Multisafe / Granit Safe T						
Indicator	**Unit**	**C1/I**	**C2/I**	**C3/I**	**C4/I**	**D/I**
PERE	MJ	0.00E+00	3.41E-03	8.85E-01	7.86E-04	-5.00E+00
PERM	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-5.04E-01
PERT	MJ	0.00E+00	3.41E-03	8.85E-01	7.86E-04	-5.50E+00
PENRE	MJ	0.00E+00	2.41E-01	9.85E+00	9.72E-02	-5.34E+01
PENRM	MJ.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-3.03E+00
PENRT	MJ	0.00E+00	2.41E-01	9.84E+00	9.72E-02	-5.64E+01
SM	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-01
RSF	MJ	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
FW	m^3	0.00E+00	2.49E-05	2.75E-01	1.03E-04	-2.92E-02
Results per functional or declared unit in case of incineration - Granit Multisafe / Granit Safe T						
Indicator	**Unit**	**C1/I**	**C2/I**	**C3/I**	**C4/I**	**D/I**
Hazardous waste disposed	kg	0.00E+00	1.55E-04	1.70E+00	5.73E-05	-5.17E-02
Non-hazardous waste disposed	kg	0.00E+00	1.27E-02	3.36E-01	6.60E-01	-7.00E-01
Radioactive waste disposed	kg	0.00E+00	1.65E-06	4.73E-05	6.38E-07	-2.13E-04
Results per functional or declared unit in case of incineration - Granit Multisafe / Granit Safe T						
Indicator	**Unit**	**C1/I**	**C2/I**	**C3/I**	**C4/I**	**D/I**
Components for re-use	kg	0.00E+00	0.00E+00	3.20E+00	0.00E+00	0.00E+00
Material for recycling	kg	0.00E+00	0.00E+00	4.30E+01	0.00E+00	-5.63E+00
Materials for energy recovery	kg	0.00E+00	0.00E+00	4.30E+01	0.00E+00	-1.66E+01
Exported energy. electricity	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exported energy. thermal	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Additional information – Potential impacts and flows in case of landfilling

Results per functional or declared unit in case of landfilling - Granit Multisafe / Granit Safe T						
Indicator	**Unit**	**C1/L**	**C2/L**	**C3/L**	**C4/L**	**D/L**
GWP-total	kg CO_2 eq.	0.00E+00	1.60E-02	0.00E+00	1.16E+00	-4.97E-01
GWP-Fossil	kg CO_2 eq.	0.00E+00	1.60E-02	0.00E+00	2.62E-01	-4.94E-01
GWP- biogenic	kg CO_2 eq.	0.00E+00	8.54E-06	0.00E+00	8.97E-01	8.76E-02
GWP- Luluc	kg CO_2 eq.	0.00E+00	5.59E-06	0.00E+00	6.62E-06	-9.06E-02
AP	mol H^+ eq.	0.00E+00	6.54E-05	0.00E+00	2.41E-04	-2.94E-03
ODP	kgCFC11 eq	0.00E+00	3.64E-09	0.00E+00	9.95E-09	-1.71E-07
EP-freshwater	kg P eq	0.00E+00	1.17E-06	0.00E+00	2.94E-06	-1.72E-04
EP-freshwater	kg PO4 eq	0.00E+00	3.60E-06	0.00E+00	9.02E-06	-5.29E-04
EP-marine	kg N eq.	0.00E+00	1.96E-05	0.00E+00	1.25E-03	-9.41E-04
EP-terrestrial	mol N eq.	0.00E+00	2.15E-04	0.00E+00	9.63E-04	-5.60E-03
POCP	kg NMVOC eq.	0.00E+00	6.57E-05	0.00E+00	3.30E-04	-1.79E-03
ADP-minerals&metals*	kg Sb eq.	0.00E+00	4.33E-07	0.00E+00	2.38E-07	-4.69E-05
ADP-Fossil*	MJ	0.00E+00	2.41E-01	0.00E+00	7.26E-01	-1.10E+01
WDP	m^3	0.00E+00	6.72E-04	0.00E+00	3.32E-03	-6.73E-01
Results per functional or declared unit in case of landfilling - Granit Multisafe / Granit Safe T						
Indicator	**Unit**	**C1/L**	**C2/L**	**C3/L**	**C4/L**	**D/L**
PERE	MJ	0.00E+00	3.41E-03	0.00E+00	2.78E-02	-1.48E+00
PERM	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-4.64E-01
PERT	MJ	0.00E+00	3.41E-03	0.00E+00	2.78E-02	-1.94E+00
PENRE	MJ	0.00E+00	2.41E-01	0.00E+00	7.25E-01	-8.21E+00
PENRM	MJ.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-2.86E+00
PENRT	MJ	0.00E+00	2.41E-01	0.00E+00	7.25E-01	-1.11E+01
SM	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-01
RSF	MJ	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
FW	m^3	0.00E+00	2.49E-05	0.00E+00	8.93E-04	-1.31E-02
Results per functional or declared unit in case of landfilling - Granit Multisafe / Granit Safe T						
Indicator	**Unit**	**C1/L**	**C2/L**	**C3/L**	**C4/L**	**D/L**
Hazardous waste disposed	kg	0.00E+00	1.55E-04	0.00E+00	7.20E-04	-2.16E-02
Non-hazardous waste disposed	kg	0.00E+00	1.27E-02	0.00E+00	3.21E+00	-1.74E-01
Radioactive waste disposed	kg	0.00E+00	1.65E-06	0.00E+00	4.74E-06	-2.18E-05
Results per functional or declared unit in case of landfilling - Granit Multisafe / Granit Safe T						
Indicator	**Unit**	**C1/L**	**C2/L**	**C3/L**	**C4/L**	**D/L**
Components for re-use	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Material for recycling	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for energy recovery	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exported energy. electricity	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exported energy. thermal	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Information on biogenic carbon content for all groups

Results per functional or declared unit		
BIOGENIC CARBON CONTENT	**Unit**	**QUANTITY**
Biogenic carbon content in product	kg C	1.32
Biogenic carbon content in packaging	kg C	<0.002

Note: 1 kg biogenic carbon is equivalent to 44/12 kg CO_2.

References

General Program Instructions of the International EPD® System. Version 4.0. 2021-03-29.
PCR 2019:14. Construction products. Version 1.11
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