

Environmental Product Declaration (EPD)



Declaration code: EPD-VET-GB-67.0



Viega GmbH
& Co. KG

Drainage technology

Waste water systems



Basis:

DIN EN ISO 14025
EN 15804 + A2

Company EPD
Environmental
Product Declaration

Publication date:
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25.02.2030



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Programme operator	ift Rosenheim GmbH Theodor-Gietl-Straße 7-9 83026 Rosenheim, G		
Practitioner of LCA	Viega GmbH & Co KG Viega Platz 1 57439 Attendorn, Germany		
Declaration holder	Viega GmbH & Co KG Viega Platz 1 57439 Attendorn, Germany www.viega.de		
Declaration code	EPD-VET-GB-67.0		
Designation of declared product	Waste water systems		
Scope	Drainage technology includes various drainage solutions for bathrooms, basements, kitchens and outdoor areas.		
Basis	This EPD was prepared on the basis of EN ISO 14025:2011 and DIN EN 15804:2012+A2:2019. In addition, the "Allgemeiner Leitfaden zur Erstellung von Typ II Umweltproduktdeklarationen" (Guidance on preparing Type III Environmental Product Declarations) applies. The Declaration is based on the PCR Documents "PCR Part A" PCR-A-1.0:2023 and "Drainage technology" PCR-ET-1.0:2023		
Validity	Publication date: 25.02.2025	Last revision: 27.02.2025	Valid until: 25.02.2030
	This verified Company Environmental Product Declaration (company EPD) applies solely to the specified products and is valid for a period of five years from the date of publication in accordance with DIN EN 15804.		
LCA basis	The LCA was prepared in accordance with DIN EN ISO 14040 and DIN EN ISO 14044. The base data includes the data collected at two production plants of Viega GmbH & Co KG, and the generic data derived from the Ecoinvent 3 data base (v3.10.1, 28.11.2023) and Ecoinvent EN 15804. LCA calculations were carried out for the included "cradle to grave" including all upstream chains (e.g. raw material extraction, etc.)		
Notes	The ift-Guidance Sheet "Conditions and Guidance for the Use of ift-Test Documents" applies. The declaration holder assumes full liability for the underlying data, certificates and verifications.		
	Christoph Seehauser Deputy Head for Sustainability	Dr. Torsten Mielecke Chairman of Expert Committee ift-EPD and PCR	Prof. Dr. Eric Brehm External verifier

1 General product information

Product definition

The EPD relates to the product group Drainage technology and applies to:

1 pc Drainage technology of company Viega GmbH & Co KG

They are subdivided into following product groups:

Product group (PG):		Weight in kg ¹
PG1	Backwater valves	0.421 – 10.450
PG2	Bathroom and balcony drains	0.165 – 2.232
PG3	Floor and cellar drains	0.375 – 1.608
PG4	Shower channels	0.330 – 6.200
PG5	Grates for shower channels	0.122 – 2.362
PG6	Accessories	0.004 – 1.600
PG7	Drains for bathtubs and shower trays	0.010 – 27.090
PG8	Drains for sinks, spouts and appliances	0.006 – 1.236
PG9	Drains for urinals	0.040 – 0.570
PG10	Drains for washbasins and bidets	0.029 – 11.800
PG11	Electronic mixing unit	0.066 – 7.005

¹ The respective weights [kg/piece] are to be taken from the conversion table in Annex B in accordance with PCR Part B.

Table 1 Product groups

The declared unit is obtained by summing up:

PG	Assessed product ²	Weight in kg ²	Declared unit
PG1	Backwater valves	6.40	1 pc
PG2	Bathroom and balcony drains	1.59	1 pc
PG3	Floor and cellar drains	1.55	1 pc
PG4	Shower channels	3.43	1 pc
PG5	Grates for shower channels	2.36	1 pc
PG6	Accessories	1.60	1 pc
PG7	Drains for bathtubs and shower trays	27.05	1 pc
PG8	Drains for sinks, spouts and appliances	0.39	1 pc
PG9	Drains for urinals	0.46	1 pc
PG10	Drains for washbasins and bidets	0.60	1 pc
PG11	Electronic mixing unit	1.76	1 pc

² Representative average products were determined for each product group across several associated products.

Table 2 Functional unit per reference product

Averaging is explained in the background report.

The average unit is declared as follows:

Directly used material flows are determined using the masses produced (kg) and assigned to the declared unit. All other inputs and outputs in the production were scaled to the declared unit in their entirety since no typical functional unit was available due to the great diversity of variants. The reference period is the year 2023.

The validity of the EPD is restricted to the systems listed in Table 1 (associated products in Annex B).

Product description

Backwater valves (including Sperrfix)

Backwater valves for faecal and faecal-free wastewater. Various mechanical and electronic equipment variants.

Bathroom and balcony drains

Bathroom and balcony drains with system dimension 100 and accessories for draining different volumes of water. Various installation heights, connection, material and design variants.

Floor and cellar drains

Floor and cellar drains with system dimension 145 and accessories for draining large volumes of water. Various installation heights, connection, material and design variants.

Shower channels

Shower channels and accessories for bathroom drainage. For compound seal (tiled shower) with sealing mat and installation adhesive. For wall and floor mounting. Installation heights from 0 to 200 mm. Different material and design variants.

Grates for shower channels

Grates for shower channels in different lengths. Different material and design variants.

Accessories

Spare parts for shower channels, drains and backwater valves.

Drains for bathtubs and shower trays

Inlets, drains and overflows made of polypropylene (PP) and accessories for bathtubs and shower trays.

Drains for sinks, spouts and appliances

Drains, drain traps and accessories for sinks, spouts and appliances. Various flush-mounted, surface-mounted, material and design variants.

Drains for urinals

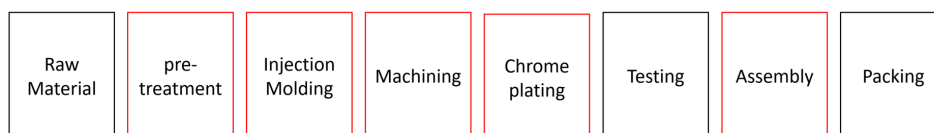
Drains and accessories for toilets. Drains, drain traps and accessories for urinals. Various wall, stand and material variants.

Drains for washbasins and bidets

Drains, drain traps and accessories for washbasins and bidets. Various flush-mounted, surface-mounted, material and design variants.

Electronic mixing unit

Electronically controlled mixing unit for filling a bathtub. For use with drain and overflow sets with water inlet.

Product manufacture

does not apply to all items

Note: Depending on the product type, not all production steps are carried out.

Scope

Drainage technology includes various drainage solutions for bathrooms, basements, kitchens and outdoor areas.

Management systems

The following management systems are held:

- Quality management system as per DIN EN ISO 9001:2015
- Energy management system as per DIN EN ISO 50001:2018
- Environmental management systems as per DIN EN ISO 14001:2015
- Occupational health and safety management system as per DIN EN ISO 45001:2018

Additional information

For additional verifications of applicability or conformity refer to the CE marking and the documents accompanying the product, if applicable.

2 Materials used**Primary materials**

The raw materials used can be found in Section 6.2 Life cycle inventory.

Declarable substances

It may contain substances according to the REACH candidate list. Further information on listed substances and the corresponding SCIP number are available on request from the manufacturer.

All relevant safety data sheets are available from Viega GmbH & Co KG.

3 Construction process stage**Processing recommendations, installation**

Observe the instructions for mounting/installation, operation, maintenance and disassembly, provided by the manufacturer. For this, see www.viega.de

4 Use stage**Emissions to the environment**

There are no known emissions to water and soil.

A test report for the assessment of emissions of Volatile Organic Compounds (VOC) using a mixed sample according to ISO 16000 is available for drainage technology. Test results were taken into account in the life cycle assessment (see Annex/B1).

The other products do not come into contact with indoor air. There are no known emissions to indoor air.

Reference service life (RSL)

The RSL information was provided by the manufacturer. The RSL must be established under specified reference conditions of use and relate to the declared technical and functional performance of the product within the building. It must be determined according to all specific rules given in European product standards or, if none are available, according to a c-PCR. It must also take into account ISO 15686-1, -2, -7 and -8. If there is guidance on deriving RSLs from European Product Standards or a c-PCR, then such guidance must take precedence.

If it is not possible to determine the service life as the RSL in accordance with ISO 15686, the BBSR table "Nutzungsdauer von Bauteilen zur Lebenszyklusanalyse nach BNB" (service life of building components for life cycle assessment in accordance with the sustainable construction evaluation system) can be used. For further information and explanations refer to www.nachhaltigesbauen.de.

For this EPD the following applies:

For a "cradle to grave" EPD and Module D (A + B + C + D), a reference service life (RSL) must be specified.

According to the manufacturer, a 50-year service life has been specified for the Waste water systems of company Viega GmbH & Co KG.

The service life depends on the characteristics of the product and the terms of use.

The reference service life is for the features, which are reported in this EPD or the relevant references for this purpose.

The RSL does not reflect the actual life time, which is usually determined by the service life and the redevelopment of a building. It represents no statement about service life, guarantee of performance or promise of guarantee.

5 End-of-life stage**Possible end-of-life stages**

The Waste water systems are fed to central collection points. There the products are usually shredded and sorted into their constituents. The end-of-life stage depends on the site where the products are used and is therefore subject to the local regulations. Observe the locally applicable regulatory requirements.

This EPD shows the end-of-life modules according to the market situation.

Metal, plastics and electronic components are recycled to certain parts. Residual fractions of plastics are thermally recycled. Other residual fractions are sent to landfill.

Disposal routes

The average disposal routes were taken into account in the LCA.

All life cycle scenarios are detailed in the Annex.

6 Life Cycle Assessment (LCA)

Environmental product declarations are based on life cycle analyses (LCAs) which use material and energy flows for the calculation and subsequent representation of environmental impacts.

As a basis for this, life cycle assessments were prepared for Waste water systems. These LCAs are in conformity with the requirements set out in DIN EN 15804 and the international standards DIN EN ISO 14040, DIN EN ISO 14044 and EN ISO 14025 as well as based on ISO 21930.

The LCA is representative of the products presented in the Declaration and the specified reference period.

6.1 Definition of goal and scope

Goal

The goal of the LCA is to demonstrate the environmental impacts of the products. In accordance with DIN EN 15804, the environmental impacts covered by this Environmental Product Declaration are presented for the entire product life cycle in the form of basic information. Apart from these, no other environmental impacts have been specified.

Data quality, data availability and geographical and time-related system boundaries

The specific data originate exclusively from the 2023 fiscal year. They were collected on-site at the plant located in Elpse and originate in parts from company records and partly from values directly obtained by measurement. Primary data was collected from the company's own data management system for energy, water and packaging costs as well as for auxiliary materials and waste/offcuts. Secondary data from literature sources was used for waste recycling (routes).

The generic data originate from the Ecoinvent 3 data base in current version (v3.10.1, 28.11.2023). Ecoinvent EN 15804 was used as a supplement for the LCIA indicators. The data was last updated in 2023. The data is not older than 1 year, as indicated in the ILCD field. No other generic data were used for the calculation.

Generic data are selected as accurately as possible in terms of geographic reference. If no country-specific data sets are available or if the regional reference cannot be determined, European or globally valid data sets are used.

Data gaps were either filled with comparable data or conservative assumptions, or the data were cut off in compliance with the 1% rule.

The software system "Umberto 11" (version 11.12.1) was used to model the life cycle.

The data quality complies with the requirements of prEN 15941:2022.

Scope / System boundaries The system boundaries refer to the supply of raw materials and purchased parts, manufacture/production, use and end-of-life stage of Waste water systems. No additional data from pre-suppliers/subcontractors or other sites were taken into consideration.

Cut-off criteria All company data collected, i.e. all commodities/input and raw materials used, the thermal energy and electricity consumption, were taken into consideration.

The boundaries cover only the product-relevant data. Building sections/parts of facilities that are not relevant to the manufacture of the products, were excluded.

The transport distances of the pre-products used were taken into consideration as a function of 100% of the mass of the products. Drainage technology is transported exclusively by a >32 t truck / semitrailer, EURO 6, diesel, 53% capacity utilization.

Other transportation routes were not taken into account as they are either marginal, have no relevant impact on the balance sheets or were not recorded.

The transportation routes of the waste materials to the recycling site are not taken into account.

The criteria for the exclusion of inputs and outputs as set out in DIN EN 15804 are fulfilled. From the data analysis it can be assumed that the total of negligible processes per life cycle stage does not exceed 1% of the mass/primary energy. This way the total of negligible processes does not exceed 5% of the energy and mass input. The life cycle calculation also includes material and energy flows that account for less than 1%.

6.2 Life cycle inventory

Goal All material and energy flows are described below. The processes covered are presented as input and output parameters and refer to the declared units.

Life cycle stages The complete life cycle of Waste water systems is shown in the annex. The product stage "A1 – A3", construction process stage "A4 – A5", use stage "B1 – B7", end-of-life stage "C1 – C4" and the benefits and loads beyond the system boundaries "D" are considered.

Benefits The below benefits have been defined as per DIN EN 15804:

- Benefits from recycling
- Benefits (thermal and electrical) from incineration

Allocation of co-products

Allocations occur during production.

Since the allocations in relation to the economic value through the co-products is less than 25 percent, the inputs and outputs of the system were allocated between their different products or functions in such a way that the underlying physical relationships (pieces) between them are reflected.

Changes in the inherent properties of the materials were taken into account. The respective recycling processes and their assumptions are taken into account in the balance sheet.

Allocations for re-use, recycling and recovery

If the products are reused/recycled and recovered during the product stage (rejects), the elements are shredded, if necessary and then sorted into their constituents. This is done by various process plants, e.g. magnetic separators.

The system boundaries were set following their disposal, reaching the end-of-waste status.

Allocations beyond life cycle boundaries

The use of recycled materials in the manufacturing process was based on the current market-specific situation. In parallel to this, a recycling potential was taken into consideration that reflects the economic value of the product after recycling (recyclate).

The system boundary set for the recycled material refers to collection.

Secondary material

The use of secondary material by Viega GmbH & Co KG was considered in Module A3. Secondary material is not used.

Inputs

The following manufacturing-related inputs were included in the LCA:

Energy

The electricity mix is based on "electricity, high voltage (DE, production mix)." "Compressed air, 1,000 kPa gauge, RoW, production" was assumed for the electricity consumption of compressed air and "cooling energy, GLO, market" for the electricity consumption of the cooling system.

A portion of the process heat is used for space heating. This can, however, not be quantified and a "worst case" figure was taken into account for the product.

Water

There is no water consumption in the individual process steps for production.

Raw material/pre-products

The chart below shows the share of raw materials/pre-products in %.

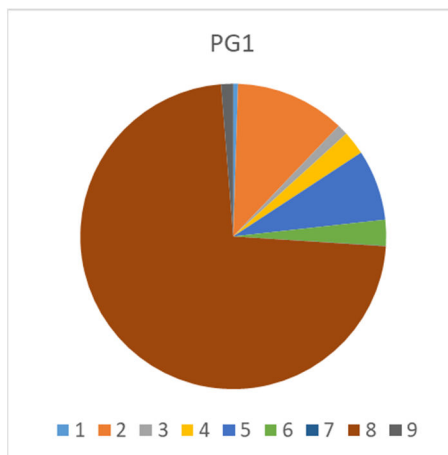


Illustration 1 Percentage of individual materials per declared unit of product group 1 (PG1)

No.	Material	Mass in %
1	Electronics	0.50%
2	Motor	11.62%
3	POM	1.13%
4	Gunmetal	2.50%
5	Stainless steel	7.50%
6	Brass	2.75%
7	Steel	0.03%
8	PP	72.70%
9	EPDM	1.28%

Table 3 Presentation of the individual materials per declared unit of product group 1 (PG1)

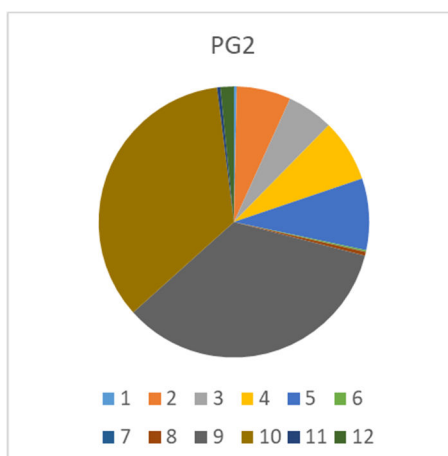


Illustration 2 Percentage of individual materials per declared unit of product group 2 (PG2)

No.	Material	Mass in %
1	Copper	0.33%
2	ABS	6.48%
3	POM	5.55%
4	PA	7.45%
5	Stainless steel	8.53%
6	Nickel	0.19%
7	Silicone	0.03%
8	EPDM	0.45%
9	Polyvinyl chloride	34.37%
10	PP	34.62%
11	Color FK	0.40%
12	LDPE	1.60%

Table 4 Presentation of the individual materials per declared unit of product group 2 (PG2)

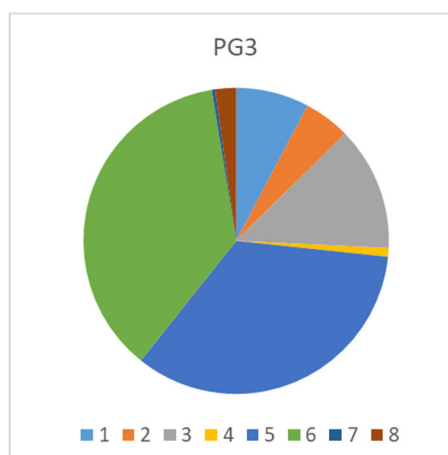


Illustration 3 Percentage of individual materials per declared unit of product group 3 (PG3)

No.	Material	Mass in %
1	Mineral wool	7.74%
2	TPE	4.90%
3	Stainless steel	13.10%
4	EPDM	0.92%
5	Polyvinyl chloride	34.05%
6	PP	36.73%
7	Color FK	0.36%
8	LDPE	2.19%

Table 5 Presentation of the individual materials per declared unit of product group 3 (PG3)

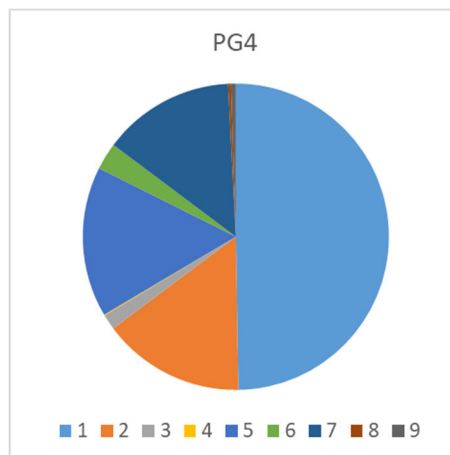


Illustration 4 Percentage of individual materials per declared unit of product group 4 (PG4)

No.	Material	Mass in %
1	PA	49.74%
2	Adhesive	15.05%
3	Stainless steel	1.62%
4	Silicone	0.09%
5	Steel	15.89%
6	EPDM	2.85%
7	PP	13.94%
8	Color FK	0.31%
9	LDPE	0.51%

Table 6 Presentation of the individual materials per declared unit of product group 4 (PG4)

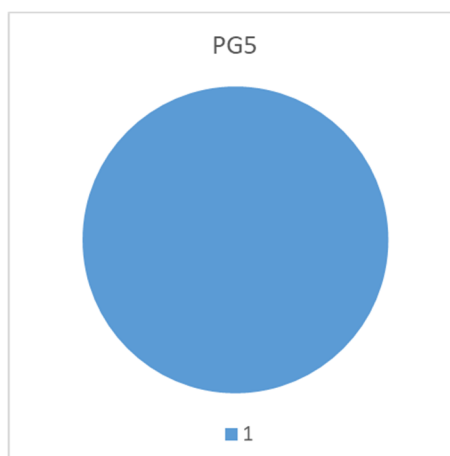


Illustration 5 Percentage of individual materials per declared unit of product group 5 (PG5)

No.	Material	Mass in %
1	Stainless steel	100.00%

Table 7 Presentation of the individual materials per declared unit of product group 5 (PG5)

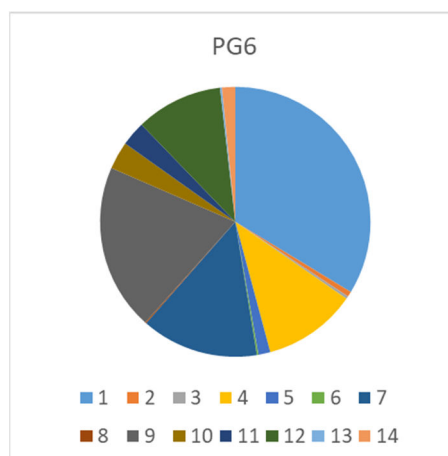


Illustration 6 Percentage of individual materials per declared unit or product group 6 (PG6)

No.	Material	Mass in %
1	Foam	33.70%
2	TPE	0.63%
3	CU	0.33%
4	ABS	11.18%
5	PA	1.43%
6	Nickel	0.19%
7	Stainless steel	14.01%
8	Silicone	0.14%
9	Steel	19.92%
10	EPDM	3.32%
11	Polyvinyl chloride	2.95%
12	PP	10.39%
13	Color FK	0.23%
14	LDPE	1.58%

Table 8 Presentation of the individual materials per declared unit of product group 6 (PG6)

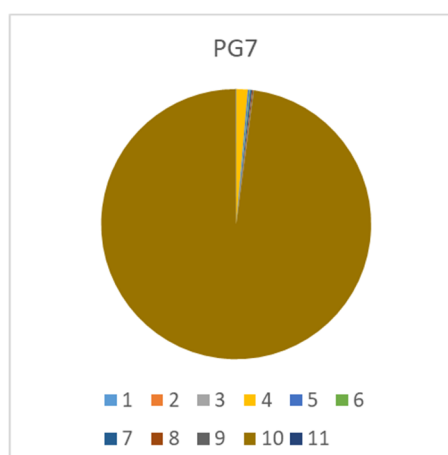


Illustration 7 Percentage of individual materials per declared unit of product group 7 (PG7)

No.	Material	Mass in %
1	CU	0.01%
2	Silicone	0.00%
3	Nickel	0.01%
4	Brass	1.36%
5	Stainless steel	0.18%
6	PA	0.10%
7	EPDM	0.20%
8	POM	0.14%
9	ABS	0.09%
10	PP	97.87%
11	Color FK	0.03%

Table 9 Presentation of the individual materials per declared unit of product group 7 (PG7)

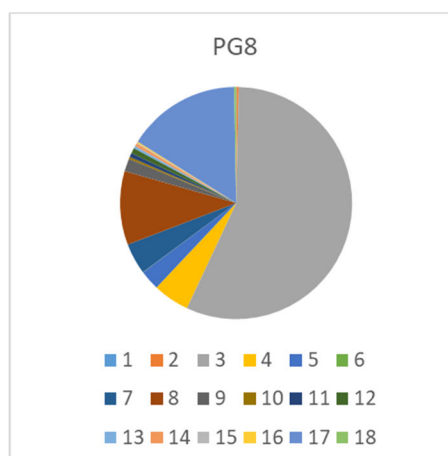


Illustration 8 Percentage of individual materials per declared unit of product group 8 (PG8)

No.	Material	Mass in %
1	Fibre	0.06%
2	Foam	0.29%
3	Gunmetal	56.64%
4	CU	5.05%
5	Silicone	2.78%
6	Nickel	0.04%
7	Brass	4.33%
8	Stainless steel	10.26%
9	HDPE	1.78%
10	EVAC	0.29%
11	PA	0.57%
12	EPDM	0.76%
13	TPE	0.34%
14	Polyvinyl chloride	0.42%
15	POM	0.10%

16	ABS	0.18%
17	PP	15.85%
18	Color FK	0.28%

Table 10 Presentation of the individual materials per declared unit of product group 8 (PG8)

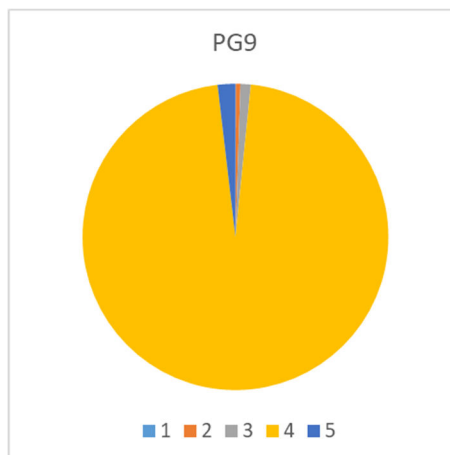


Illustration 9 Percentage of individual materials per declared unit of product group 9 (PG9)

No.	Material	Mass in %
1	Silicone	0.04%
2	Brass	0.48%
3	EPDM	1.09%
4	PP	96.52%
5	Color FK	1.87%

Table 11 Presentation of the individual materials per declared unit of product group 9 (PG9)

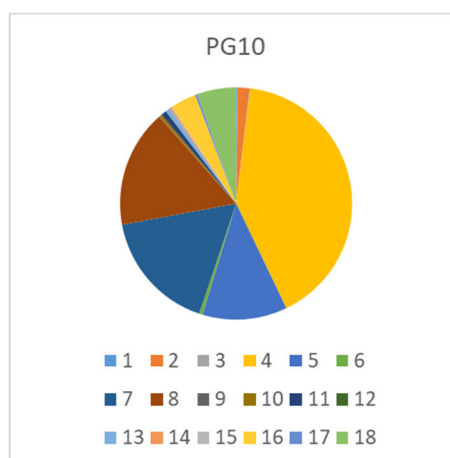


Illustration 10 Percentage of individual materials per declared unit of product group 10 (PG10)

No.	Material	Mass in %
1	Fibre	0.22%
2	Polystyrene	1.66%
3	Foam	0.08%
4	Gunmetal	40.93%
5	CU	11.79%
6	Nickel	0.50%
7	Brass	16.90%
8	Stainless steel	16.37%
9	Steel	0.07%
10	EVAC	0.38%
11	PA	0.75%
12	SBR	0.02%
13	EPDM	0.65%
14	TPE	0.28%
15	Polyvinyl chloride	0.12%
16	PP	3.56%
17	Color FK	0.33%
18	HDPE	5.41%

Table 12 Presentation of the individual materials per declared unit of product group 10 (PG10)

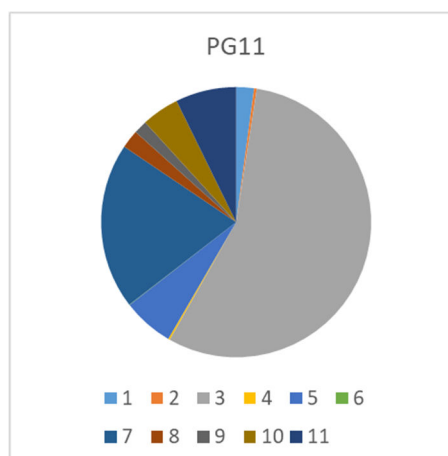


Illustration 11 Percentage of individual materials per declared unit of product group 11 (PG11)

No.	Material	Mass in %
1	EPDM	2.13%
2	Stainless steel	0.33%
3	Brass	55.75%
4	Nickel	0.19%
5	Sealing compound (resin and hardener)	6.11%
6	Motor	0.04%
7	Rechargeable battery	19.90%
8	Steel	2.19%
9	HDPE	1.60%
10	CU	4.49%
11	Foam	7.28%

Table 13 Presentation of the individual materials per declared unit of product group 11 (PG11)

Ancillary materials and consumables

There are no significant quantities of ancillary materials and consumables.

Product packaging

The amounts used for product packaging are as follows:

Product group		Mass in kg			
		Plastic films	Plywood	Paper/ cardboard	Wood - pallet
1	Backwater valve	0.020	-	0.020	-
2	Bathroom and balcony drains	0.019	-	0.369	-
3	Floor and cellar drains	0.020	-	0.467	-
4	Shower channel	0.136	-	2.139	-
5	Grates for shower channels	0.012	-	0.995	-
6	Accessories	0.024	0.195	0.145	-
7	Drains for bathtubs & shower trays	0.018	-	0.663	-
8	Drains for sinks, spouts & appliances	0.016	-	0.038	-
9	Drains for urinals	0.022	-	0.044	-
10	Drains for washbasins & bidet	0.147	-	0.065	-
11	Electronic mixing unit	0.078	-	2.199	-

Table 14 Weight in kg of packaging per declared unit

Biogenic carbon content

Only the biogenic carbon content of the associated packaging is specified, as the total mass of substances containing biogenic carbon is less than 5% of the total mass of the product and associated packaging. According to EN 16449, packaging produces the following amounts of biogenic carbon:

Product group		Content in kg C per pc
		In the associated packaging
1	Backwater valves	0.007
2	Bathroom and balcony drains	0.132
3	Floor and cellar drains	0.168
4	Shower channels	0.768
5	Grates for shower channels	0.357
6	Accessories	0.139
7	Drains for bathtubs and shower trays	0.238
8	Drains for sinks, spouts and appliances	0.014
9	Drains for urinals	0.016
10	Drains for washbasins and bidets	0.023
11	Electronic mixing unit	0.790

Table 15 Biogenic carbon content in product and packaging at the factory gate

Outputs

The LCA includes the following production-relevant outputs:

Waste

Secondary raw materials were included in the benefits. See Section 6.3 - Impact assessment.

Waste water

The manufacture does not produce any waste water.

6.3 Impact assessment

Goal

The impact assessment covers inputs and outputs. The impact categories applied are named below:

Core indicators

The models for impact assessment were applied as described in DIN EN 15804+A2.

The impact categories presented as core indicators in the EPD are as follows:

- Climate change - total (GWP-t)
- Climate change - fossil (GWP-f)
- Climate change - biogenic (GWP-b)
- Climate change - land use & land use change (GWP-l)
- Ozone depletion (ODP)
- Acidification (AP)
- Eutrophication freshwater (EP-fw)
- Eutrophication salt water (EP-m)
- Eutrophication land (EP-t)
- Photochemical ozone creation (POCP)
- Depletion of abiotic resources - fossil fuels (ADPF)
- Depletion of abiotic resources - minerals and metals (ADPE)
- Water use (WDP)

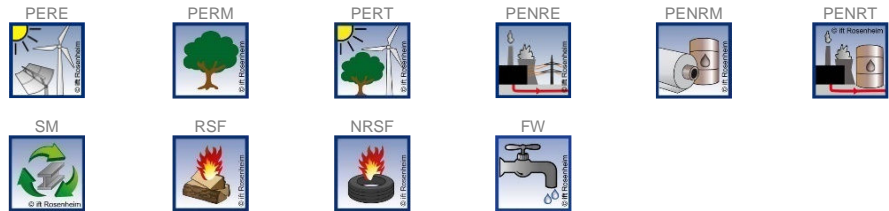


Use of resources

The models for impact assessment were applied as described in DIN EN 15804-A2.

The following resource use indicators are presented in the EPD:

- Renewable primary energy as energy source (PERE)
- Renewable primary energy for material use (PERM)
- Total use of renewable primary energy (PERT)
- Non-renewable primary energy as energy source (PENRE)
- Renewable primary energy for material use (PENRM)
- Total use of non-renewable primary energy (PENRT)
- Use of secondary materials (SM)
- Use of renewable secondary fuels (RSF)
- Use of non-renewable secondary fuels (NRSF)
- Net use of freshwater resources (FW)



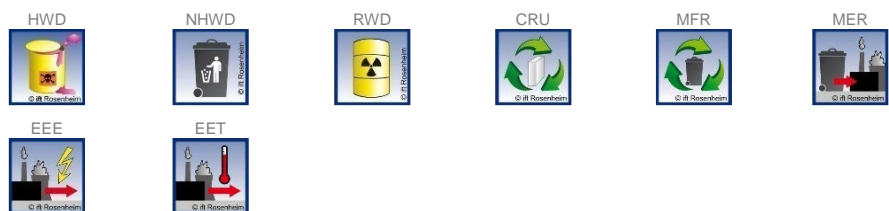
Waste

The waste generated during the production of surface temperature control is evaluated and shown separately for the fractions trade wastes, special wastes and radioactive wastes. Since waste handling is modelled within the system boundaries, the amounts shown refer to the deposited wastes. A portion of the waste indicated is generated during the manufacture of the pre-products.

The models for impact assessment were applied as described in DIN EN 15804-A2.

The waste categories and indicators for output material flows presented in the EPD are as follows:

- Disposed hazardous waste (HWD)
- Non-hazardous waste disposed (NHWD)
- Radioactive waste disposed (RWD)
- Components for re-use (CRU)
- Materials for recycling (MFR)
- Materials for energy recovery (MER)
- Exported electrical energy (EEE)
- Exported thermal energy (EET)

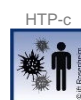


Additional environmental impact indicators

The models for impact assessment were applied as described in DIN EN 15804-A2.

The additional impact categories presented in the EPD are as follows:

- Particulate matter emissions (PM)
- Ionizing radiation, human health (IRP)
- Ecotoxicity – freshwater (ETP-fw)
- Human toxicity, carcinogenic effects (HTP-c)
- Human toxicity, non-carcinogenic effects (HTP-nc)
- Impacts associated with land use/soil quality (SQP)





Results per 1 pc PG1 - Backwater valves

Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Core indicators															
GWP-t	kg CO ₂ eq.	43.50	0.41	9.15E-02	0.00	0.00	0.00	0.00	15.00	0.00	4.75E-02	3.38E-02	8.27E-02	0.61	-36.00
GWP-f	kg CO ₂ eq.	43.40	0.41	1.47E-02	0.00	0.00	0.00	0.00	14.50	0.00	3.24E-03	3.38E-02	6.96E-02	4.15E-02	-36.10
GWP-b	kg CO ₂ eq.	-2.46E-02	1.62E-05	7.68E-02	0.00	0.00	0.00	0.00	0.51	0.00	4.42E-02	1.08E-06	1.29E-02	0.57	6.73E-02
GWP-l	kg CO ₂ eq.	4.74E-02	1.72E-04	4.31E-07	0.00	0.00	0.00	0.00	4.41E-02	0.00	9.12E-07	1.37E-05	1.12E-04	1.17E-05	-4.41E-02
ODP	kg CFC-11 eq.	1.75E-06	6.59E-09	5.66E-11	0.00	0.00	0.00	0.00	2.66E-07	0.00	2.18E-11	5.28E-10	6.55E-10	2.79E-10	-1.20E-06
AP	mol H ⁺ eq.	0.41	1.04E-03	4.14E-05	0.00	0.00	0.00	0.00	8.50E-02	0.00	1.09E-05	1.41E-04	4.68E-04	1.40E-04	-0.61
EP-fw	kg P eq.	4.94E-02	3.33E-05	1.10E-06	0.00	0.00	0.00	0.00	1.35E-02	0.00	4.86E-06	2.66E-06	2.71E-05	6.23E-05	-6.31E-02
EP-m	kg N eq.	5.49E-02	2.64E-04	7.40E-05	0.00	0.00	0.00	0.00	1.33E-02	0.00	9.13E-05	5.13E-05	1.22E-04	1.17E-03	-5.74E-02
EP-t	mol N eq.	0.62	2.85E-03	1.82E-04	0.00	0.00	0.00	0.00	0.12	0.00	3.39E-05	5.59E-04	1.24E-03	4.35E-04	-0.69
POCP	kg NMVOC-eq.	0.23	1.57E-03	7.64E-05	3.06E-06	0.00	0.00	0.00	3.94E-02	0.00	2.14E-05	2.05E-04	3.74E-04	2.75E-04	-0.21
ADPF*2	MJ	778.00	6.18	4.17E-02	0.00	0.00	0.00	0.00	336.00	0.00	2.05E-02	0.49	0.87	0.26	-518.00
ADPE*2	kg Sb eq.	1.15E-02	1.20E-06	1.66E-08	0.00	0.00	0.00	0.00	1.95E-04	0.00	2.30E-09	9.50E-08	1.23E-06	2.95E-08	-1.33E-02
WDP*2	m ³ world eq. deprived	14.20	2.95E-02	9.06E-04	0.00	0.00	0.00	0.00	9.16	0.00	2.17E-04	2.37E-03	1.22E-02	2.78E-03	-13.40
Use of resources															
PERE	MJ	65.00	8.12E-02	5.42E-03	0.00	0.00	0.00	0.00	92.20	0.00	6.37E-04	6.49E-03	9.27E-02	8.17E-03	-59.20
PERM	MJ	65.00	8.12E-02	5.42E-03	0.00	0.00	0.00	0.00	92.20	0.00	6.37E-04	6.49E-03	9.27E-02	8.17E-03	-59.20
PERT	MJ	65.00	8.12E-02	5.42E-03	0.00	0.00	0.00	0.00	92.20	0.00	6.37E-04	6.49E-03	9.27E-02	8.17E-03	-59.20
PENRE	MJ	778.00	6.18	4.17E-02	0.00	0.00	0.00	0.00	336.00	0.00	2.05E-02	0.49	0.87	0.26	-518.00
PENRM	MJ	778.00	6.18	4.17E-02	0.00	0.00	0.00	0.00	336.00	0.00	2.05E-02	0.49	0.87	0.26	-518.00
PENRT	MJ	778.00	6.18	4.17E-02	0.00	0.00	0.00	0.00	336.00	0.00	2.05E-02	0.49	0.87	0.26	-518.00
SM	kg	0.72	2.62E-03	1.07E-05	0.00	0.00	0.00	0.00	5.56E-02	0.00	6.74E-06	2.10E-04	5.18E-04	8.65E-05	-0.51
RSF	MJ	1.58E-02	3.33E-05	1.10E-07	0.00	0.00	0.00	0.00	4.44E-04	0.00	1.17E-07	2.67E-06	3.60E-05	1.49E-06	-1.22E-02
NRSF	MJ	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FW	m ³	0.39	9.03E-04	1.46E-05	0.00	0.00	0.00	0.00	0.29	0.00	-2.41E-04	7.28E-05	3.42E-04	-3.09E-03	-0.39
Waste categories															
HWD	kg	6.49	1.05E-02	2.08E-04	0.00	0.00	0.00	0.00	0.85	0.00	5.67E-05	8.38E-04	5.33E-03	7.27E-04	-4.80
NHWD	kg	239.00	0.20	4.23E-02	0.00	0.00	0.00	0.00	65.80	0.00	0.33	1.55E-02	0.14	4.20	-222.00
RWD	kg	1.01E-03	1.33E-06	3.55E-08	0.00	0.00	0.00	0.00	2.39E-03	0.00	1.24E-08	1.07E-07	1.39E-06	1.59E-07	-8.57E-04
Output material flows															
CRU	kg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MFR	kg	6.70E-02	4.61E-05	3.23E-06	0.00	0.00	0.00	0.00	3.49E-02	0.00	4.00E-07	3.69E-06	0.77	5.12E-06	-6.43E-02
MER	kg	1.48E-04	2.83E-07	1.08E-09	0.00	0.00	0.00	0.00	4.71E-06	0.00	1.38E-09	2.19E-08	8.38E-08	1.78E-08	-1.07E-04
EE	MJ	0.68	1.12E-03	4.23E-06	0.00	0.00	0.00	0.00	1.56	0.00	7.08E-06	9.00E-05	6.44E-04	9.08E-05	-0.43

Key:

GWP-t – global warming potential - total **GWP-f** – global warming potential fossil fuels **GWP-b** – global warming potential - biogenic **GWP-l** – global warming potential - land use and land use change **ODP** – ozone depletion potential **AP** - acidification potential **EP-fw** - eutrophication potential - aquatic freshwater **EP-m** - eutrophication potential - aquatic marine **EP-t** - eutrophication potential - terrestrial **POCP** - photochemical ozone formation potential **ADPF*2** - abiotic depletion potential – fossil resources **ADPE*2** - abiotic depletion potential – minerals&metals **WDP*2** – Water (user) deprivation potential **PERE** - Use of renewable primary energy **PERM** - use of renewable primary energy resources **PERT** - total use of renewable primary energy resources **PENRE** - use of non-renewable primary energy **PENRM** - use of non-renewable primary energy resources **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** - net use of fresh water **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 **EE** - exported energy



Results per 1 pc PG1 - Backwater valves

Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D	
Additional environmental impact indicators																
PM	Disease incidence	2.54E-06	3.98E-08	1.01E-08	0.00	0.00	0.00	0.00	0.00	3.03E-07	0.00	1.47E-10	3.46E-09	9.64E-09	1.88E-09	-2.59E-06
IRP*1	kBq U235 eq.	4.07	5.43E-03	1.68E-04	0.00	0.00	0.00	0.00	0.00	9.29	0.00	5.08E-05	4.36E-04	5.66E-03	6.52E-04	-3.45
ETP-fw*2	CTUe	1,030.00	1.49	0.30	2.50E-05	0.00	0.00	0.00	0.00	60.10	0.00	0.64	0.12	0.58	8.19	-1,180.00
HTP-c*2	CTUh	3.16E-07	2.11E-09	1.06E-10	0.00	0.00	0.00	0.00	0.00	3.44E-08	0.00	6.63E-12	1.69E-10	3.77E-10	8.50E-11	-2.34E-07
HTP-nc*2	CTUh	2.86E-06	4.04E-09	6.27E-09	6.66E-13	0.00	0.00	0.00	0.00	2.54E-07	0.00	3.03E-10	3.26E-10	2.19E-09	3.89E-09	-5.22E-06
SQP*2	dimensionless	276.00	6.08	2.99E-02	0.00	0.00	0.00	0.00	0.00	74.80	0.00	3.83E-02	0.50	0.86	0.49	-289.00

Key:

PM – particulate matter emissions potential **IRP*1** – ionizing radiation potential – human health **ETP-fw*2** - Eco-toxicity potential – freshwater **HTP-c*2** - Human toxicity potential – cancer effects **HTP-nc*2** - Human toxicity potential – non-cancer effects **SQP*2** – soil quality potential

Disclaimers

*1 This impact category deals mainly with the eventual impact of low-dose ionising radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure nor due to radioactive waste disposal in underground facilities. Potential ionising radiation from the soil, from radon and from some building materials is also not measured by this indicator

*2 The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experience with the indicator



Results per 1 pc PG2 - Bathroom and balcony drains

Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Core indicators															
GWP-t	kg CO ₂ eq.	6.78	0.13	1.45	0.00	0.00	0.00	0.00	0.00	0.00	1.18E-02	8.40E-03	4.62E-03	1.48E-02	-3.58
GWP-f	kg CO ₂ eq.	7.25	0.13	1.92E-02	0.00	0.00	0.00	0.00	0.00	0.00	8.03E-04	8.39E-03	4.36E-03	1.01E-03	-3.58
GWP-b	kg CO ₂ eq.	-0.47	4.96E-06	1.43	0.00	0.00	0.00	0.00	0.00	0.00	1.10E-02	2.68E-07	2.50E-04	1.38E-02	7.54E-04
GWP-l	kg CO ₂ eq.	3.93E-03	5.26E-05	2.40E-06	0.00	0.00	0.00	0.00	0.00	0.00	2.26E-07	3.41E-06	5.75E-06	2.84E-07	-3.23E-03
ODP	kg CFC-11 eq.	5.76E-07	2.02E-09	1.05E-10	0.00	0.00	0.00	0.00	0.00	0.00	5.40E-12	1.31E-10	5.11E-11	6.78E-12	-5.59E-08
AP	mol H ⁺ eq.	3.74E-02	3.20E-04	2.99E-04	0.00	0.00	0.00	0.00	0.00	0.00	2.71E-06	3.49E-05	4.28E-05	3.40E-06	-8.13E-02
EP-fw	kg P eq.	1.96E-03	1.02E-05	1.12E-05	0.00	0.00	0.00	0.00	0.00	0.00	1.20E-06	6.60E-07	2.06E-06	1.51E-06	-6.37E-03
EP-m	kg N eq.	6.45E-03	8.09E-05	6.96E-04	0.00	0.00	0.00	0.00	0.00	0.00	2.26E-05	1.27E-05	1.04E-05	2.85E-05	-5.36E-03
EP-t	mol N eq.	5.97E-02	8.75E-04	1.49E-03	0.00	0.00	0.00	0.00	0.00	0.00	8.42E-06	1.39E-04	1.14E-04	1.06E-05	-6.83E-02
POCP	kg NMVOC-eq.	2.67E-02	4.82E-04	8.07E-04	3.06E-06	0.00	0.00	0.00	0.00	0.00	5.32E-06	5.07E-05	3.43E-05	6.68E-06	-2.29E-02
ADPF*2	MJ	138.00	1.89	9.11E-02	0.00	0.00	0.00	0.00	0.00	0.00	5.10E-03	0.12	5.35E-02	6.40E-03	-61.30
ADPE*2	kg Sb eq.	9.06E-05	3.67E-07	1.97E-08	0.00	0.00	0.00	0.00	0.00	0.00	5.70E-10	2.36E-08	2.13E-07	7.16E-10	-9.50E-04
WDP*2	m ³ world eq. deprived	3.79	9.03E-03	5.37E-03	0.00	0.00	0.00	0.00	0.00	0.00	5.37E-05	5.88E-04	7.28E-04	6.75E-05	-1.31
Use of resources															
PERE	MJ	19.40	2.49E-02	1.45E-03	0.00	0.00	0.00	0.00	0.00	0.00	1.58E-04	1.61E-03	6.90E-03	1.99E-04	-5.46
PERM	MJ	19.40	2.49E-02	1.45E-03	0.00	0.00	0.00	0.00	0.00	0.00	1.58E-04	1.61E-03	6.90E-03	1.99E-04	-5.46
PERT	MJ	19.40	2.49E-02	1.45E-03	0.00	0.00	0.00	0.00	0.00	0.00	1.58E-04	1.61E-03	6.90E-03	1.99E-04	-5.46
PENRE	MJ	138.00	1.89	9.11E-02	0.00	0.00	0.00	0.00	0.00	0.00	5.10E-03	0.12	5.35E-02	6.40E-03	-61.30
PENRM	MJ	138.00	1.89	9.11E-02	0.00	0.00	0.00	0.00	0.00	0.00	5.10E-03	0.12	5.35E-02	6.40E-03	-61.30
PENRT	MJ	138.00	1.89	9.11E-02	0.00	0.00	0.00	0.00	0.00	0.00	5.10E-03	0.12	5.35E-02	6.40E-03	-61.30
SM	kg	9.25E-02	8.04E-04	5.18E-05	0.00	0.00	0.00	0.00	0.00	0.00	1.67E-06	5.21E-05	5.68E-05	2.10E-06	-5.21E-02
RSF	MJ	3.10E-03	1.02E-05	6.79E-07	0.00	0.00	0.00	0.00	0.00	0.00	2.89E-08	6.63E-07	2.45E-06	3.63E-08	-3.07E-04
NRSF	MJ	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FW	m ³	9.23E-02	2.77E-04	6.86E-05	0.00	0.00	0.00	0.00	0.00	0.00	-5.97E-05	1.80E-05	2.04E-05	-7.50E-05	-4.12E-02
Waste categories															
HWD	kg	1.06	3.21E-03	1.09E-03	0.00	0.00	0.00	0.00	0.00	0.00	1.41E-05	2.08E-04	3.52E-04	1.77E-05	-0.49
NHWD	kg	18.60	5.96E-02	0.39	0.00	0.00	0.00	0.00	0.00	0.00	8.12E-02	3.85E-03	1.02E-02	0.10	-27.90
RWD	kg	8.89E-05	4.08E-07	2.13E-08	0.00	0.00	0.00	0.00	0.00	0.00	3.08E-09	2.65E-08	5.19E-08	3.87E-09	-6.64E-05
Output material flows															
CRU	kg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MFR	kg	1.08E-03	1.41E-05	6.81E-07	0.00	0.00	0.00	0.00	0.00	0.00	9.91E-08	9.15E-07	0.14	1.25E-07	-2.70E-03
MER	kg	1.44E-05	8.69E-08	5.81E-09	0.00	0.00	0.00	0.00	0.00	0.00	3.43E-10	5.44E-09	7.94E-09	4.32E-10	-7.75E-06
EE	MJ	8.02E-02	3.43E-04	2.12E-05	0.00	0.00	0.00	0.00	0.00	0.00	1.76E-06	2.23E-05	3.05E-05	2.21E-06	-2.11E-02

Key:

GWP-t – global warming potential - total **GWP-f** – global warming potential fossil fuels **GWP-b** – global warming potential - biogenic **GWP-l** – global warming potential - land use and land use change **ODP** – ozone depletion potential **AP** - acidification potential **EP-fw** - eutrophication potential - aquatic freshwater **EP-m** - eutrophication potential - aquatic marine **EP-t** - eutrophication potential - terrestrial **POCP** - photochemical ozone formation potential **ADPF*2** - abiotic depletion potential – fossil resources **ADPE*2** - abiotic depletion potential – minerals&metals **WDP*2** – Water (user) deprivation potential **PERE** - Use of renewable primary energy **PERM** - use of renewable primary energy resources **PERT** - total use of renewable primary energy resources **PENRE** - use of non-renewable primary energy **PENRM** - use of non-renewable primary energy resources **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** - net use of fresh water **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 **EE** - exported energy



Results per 1 pc PG2 - Bathroom and balcony drains

Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D	
Additional environmental impact indicators																
PM	Disease incidence	6.98E-07	1.22E-08	7.17E-08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.64E-11	8.59E-10	7.06E-10	4.57E-11	-2.51E-07
IRP*1	kBq U235 eq.	0.34	1.67E-03	8.60E-05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.26E-05	1.08E-04	2.08E-04	1.58E-05	-0.26
ETP-fw*2	CTUe	99.40	0.46	3.39	2.49E-05	0.00	0.00	0.00	0.00	0.00	0.00	0.16	2.95E-02	4.17E-02	0.20	-94.70
HTP-c*2	CTUh	4.82E-08	6.46E-10	1.08E-09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.64E-12	4.20E-11	3.41E-11	2.07E-12	-1.75E-08
HTP-nc*2	CTUh	1.17E-07	1.24E-09	1.12E-07	6.64E-13	0.00	0.00	0.00	0.00	0.00	0.00	7.52E-11	8.10E-11	1.97E-10	9.45E-11	-7.76E-07
SQP*2	dimensionless	81.30	1.86	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.50E-03	0.12	9.32E-02	1.19E-02	-27.90

Key:

PM – particulate matter emissions potential **IRP*1** – ionizing radiation potential – human health **ETP-fw*2** - Eco-toxicity potential – freshwater **HTP-c*2** - Human toxicity potential – cancer effects **HTP-nc*2** - Human toxicity potential – non-cancer effects **SQP*2** – soil quality potential

Disclaimers

*1 This impact category deals mainly with the eventual impact of low-dose ionising radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure nor due to radioactive waste disposal in underground facilities. Potential ionising radiation from the soil, from radon and from some building materials is also not measured by this indicator

*2 The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experience with the indicator



Results per 1 pc PG3 - Floor and cellar drains

Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Core indicators															
GWP-t	kg CO ₂ eq.	5.85	0.13	1.85	0.00	0.00	0.00	0.00	0.00	0.00	1.15E-02	8.23E-03	5.74E-03	9.92E-02	-3.76
GWP-f	kg CO ₂ eq.	6.48	0.13	2.23E-02	0.00	0.00	0.00	0.00	0.00	0.00	7.88E-04	8.23E-03	5.86E-03	6.77E-03	-3.76
GWP-b	kg CO ₂ eq.	-0.64	5.14E-06	1.83	0.00	0.00	0.00	0.00	0.00	0.00	1.08E-02	2.63E-07	-1.24E-04	9.24E-02	1.20E-03
GWP-l	kg CO ₂ eq.	4.79E-03	5.45E-05	3.04E-06	0.00	0.00	0.00	0.00	0.00	0.00	2.22E-07	3.34E-06	7.09E-06	1.91E-06	-3.71E-03
ODP	kg CFC-11 eq.	1.09E-07	2.09E-09	1.33E-10	0.00	0.00	0.00	0.00	0.00	0.00	5.30E-12	1.28E-10	6.84E-11	4.55E-11	-5.40E-08
AP	mol H ⁺ eq.	3.46E-02	3.32E-04	3.78E-04	0.00	0.00	0.00	0.00	0.00	0.00	2.65E-06	3.43E-05	5.98E-05	2.28E-05	-0.12
EP-fw	kg P eq.	1.84E-03	1.06E-05	1.43E-05	0.00	0.00	0.00	0.00	0.00	0.00	1.18E-06	6.48E-07	2.96E-06	1.02E-05	-9.20E-03
EP-m	kg N eq.	5.52E-03	8.38E-05	8.81E-04	0.00	0.00	0.00	0.00	0.00	0.00	2.22E-05	1.25E-05	1.39E-05	1.91E-04	-6.96E-03
EP-t	mol N eq.	5.79E-02	9.07E-04	1.89E-03	0.00	0.00	0.00	0.00	0.00	0.00	8.26E-06	1.36E-04	1.56E-04	7.09E-05	-9.15E-02
POCP	kg NMVOC-eq.	2.60E-02	5.00E-04	1.02E-03	3.07E-06	0.00	0.00	0.00	0.00	0.00	5.22E-06	4.98E-05	4.64E-05	4.48E-05	-2.90E-02
ADPF*2	MJ	123.00	1.96	0.12	0.00	0.00	0.00	0.00	0.00	0.00	5.00E-03	0.12	7.21E-02	4.29E-02	-61.10
ADPE*2	kg Sb eq.	6.10E-05	3.80E-07	2.49E-08	0.00	0.00	0.00	0.00	0.00	0.00	5.59E-10	2.31E-08	3.15E-07	4.80E-09	-1.42E-03
WDP*2	m ³ world eq. deprived	2.51	9.37E-03	6.77E-03	0.00	0.00	0.00	0.00	0.00	0.00	5.27E-05	5.77E-04	1.02E-03	4.53E-04	-1.53
Use of resources															
PERE	MJ	23.00	2.58E-02	1.84E-03	0.00	0.00	0.00	0.00	0.00	0.00	1.55E-04	1.58E-03	1.00E-02	1.33E-03	-6.57
PERM	MJ	23.00	2.58E-02	1.84E-03	0.00	0.00	0.00	0.00	0.00	0.00	1.55E-04	1.58E-03	1.00E-02	1.33E-03	-6.57
PERT	MJ	23.00	2.58E-02	1.84E-03	0.00	0.00	0.00	0.00	0.00	0.00	1.55E-04	1.58E-03	1.00E-02	1.33E-03	-6.57
PENRE	MJ	123.00	1.96	0.12	0.00	0.00	0.00	0.00	0.00	0.00	5.00E-03	0.12	7.21E-02	4.29E-02	-61.10
PENRM	MJ	123.00	1.96	0.12	0.00	0.00	0.00	0.00	0.00	0.00	5.00E-03	0.12	7.21E-02	4.29E-02	-61.10
PENRT	MJ	123.00	1.96	0.12	0.00	0.00	0.00	0.00	0.00	0.00	5.00E-03	0.12	7.21E-02	4.29E-02	-61.10
SM	kg	0.13	8.33E-04	6.55E-05	0.00	0.00	0.00	0.00	0.00	0.00	1.64E-06	5.11E-05	7.82E-05	1.41E-05	-7.40E-02
RSF	MJ	2.47E-03	1.06E-05	8.56E-07	0.00	0.00	0.00	0.00	0.00	0.00	2.84E-08	6.50E-07	3.36E-06	2.44E-07	-4.31E-04
NRSF	MJ	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FW	m ³	6.31E-02	2.87E-04	8.64E-05	0.00	0.00	0.00	0.00	0.00	0.00	-5.86E-05	1.77E-05	2.88E-05	-5.03E-04	-5.11E-02
Waste categories															
HWD	kg	1.39	3.33E-03	1.37E-03	0.00	0.00	0.00	0.00	0.00	0.00	1.38E-05	2.04E-04	4.95E-04	1.18E-04	-0.64
NHWD	kg	19.30	6.18E-02	0.50	0.00	0.00	0.00	0.00	0.00	0.00	7.96E-02	3.78E-03	1.43E-02	0.68	-38.10
RWD	kg	8.71E-05	4.22E-07	2.69E-08	0.00	0.00	0.00	0.00	0.00	0.00	3.02E-09	2.60E-08	7.37E-08	2.60E-08	-7.37E-05
Output material flows															
CRU	kg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MFR	kg	1.17E-03	1.46E-05	8.61E-07	0.00	0.00	0.00	0.00	0.00	0.00	9.72E-08	8.97E-07	0.20	8.35E-07	-3.66E-03
MER	kg	2.19E-05	9.01E-08	7.34E-09	0.00	0.00	0.00	0.00	0.00	0.00	3.37E-10	5.33E-09	1.11E-08	2.89E-09	-1.02E-05
EE	MJ	7.88E-02	3.55E-04	2.68E-05	0.00	0.00	0.00	0.00	0.00	0.00	1.72E-06	2.19E-05	4.24E-05	1.48E-05	-2.67E-02

Key:

GWP-t – global warming potential - total **GWP-f** – global warming potential fossil fuels **GWP-b** – global warming potential - biogenic **GWP-l** – global warming potential - land use and land use change **ODP** – ozone depletion potential **AP** - acidification potential **EP-fw** - eutrophication potential - aquatic freshwater **EP-m** - eutrophication potential - aquatic marine **EP-t** - eutrophication potential - terrestrial **POCP** - photochemical ozone formation potential **ADPF*2** - abiotic depletion potential – fossil resources **ADPE*2** - abiotic depletion potential – minerals&metals **WDP*2** – Water (user) deprivation potential **PERE** - Use of renewable primary energy **PERM** - use of renewable primary energy resources **PERT** - total use of renewable primary energy resources **PENRE** - use of non-renewable primary energy **PENRM** - use of non-renewable primary energy resources **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** - net use of fresh water **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 **EE** - exported energy



Results per 1 pc PG3 - Floor and cellar drains

Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Additional environmental impact indicators															
PM	Disease incidence	6.72E-07	1.26E-08	9.03E-08	0.00	0.00	0.00	0.00	0.00	0.00	3.57E-11	8.42E-10	8.50E-10	3.07E-10	-3.24E-07
IRP*1	kBq U235 eq.	0.34	1.73E-03	1.09E-04	0.00	0.00	0.00	0.00	0.00	0.00	1.24E-05	1.06E-04	2.96E-04	1.06E-04	-0.29
ETP-fw*2	CTUe	103.00	0.47	4.29	2.51E-05	0.00	0.00	0.00	0.00	0.00	0.16	2.89E-02	5.14E-02	1.33	-135.00
HTP-c*2	CTUh	6.65E-08	6.69E-10	1.36E-09	0.00	0.00	0.00	0.00	0.00	0.00	1.61E-12	4.12E-11	4.49E-11	1.39E-11	-2.31E-08
HTP-nc*2	CTUh	9.51E-08	1.28E-09	1.43E-07	6.68E-13	0.00	0.00	0.00	0.00	0.00	7.38E-11	7.94E-11	2.79E-10	6.34E-10	-1.16E-06
SQP*2	dimensionless	102.00	1.93	0.32	0.00	0.00	0.00	0.00	0.00	0.00	9.32E-03	0.12	0.13	8.00E-02	-39.10

Key:

PM – particulate matter emissions potential **IRP*1** – ionizing radiation potential – human health **ETP-fw*2** - Eco-toxicity potential – freshwater **HTP-c*2** - Human toxicity potential – cancer effects **HTP-nc*2** - Human toxicity potential – non-cancer effects **SQP*2** – soil quality potential

Disclaimers

*1 This impact category deals mainly with the eventual impact of low-dose ionising radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure nor due to radioactive waste disposal in underground facilities. Potential ionising radiation from the soil, from radon and from some building materials is also not measured by this indicator

*2 The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experience with the indicator



Results per 1 pc PG4 - Shower channels

Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Core indicators															
GWP-t	kg CO ₂ eq.	20.00	0.37	8.46	0.00	0.00	0.00	0.00	0.00	0.00	2.54E-02	1.81E-02	1.71E-02	3.45E-02	-6.76
GWP-f	kg CO ₂ eq.	23.00	0.37	0.13	0.00	0.00	0.00	0.00	0.00	0.00	1.73E-03	1.81E-02	1.74E-02	2.36E-03	-6.75
GWP-b	kg CO ₂ eq.	-3.09	1.43E-05	8.33	0.00	0.00	0.00	0.00	0.00	0.00	2.37E-02	5.80E-07	-3.67E-04	3.22E-02	-4.84E-04
GWP-l	kg CO ₂ eq.	2.28E-02	1.52E-04	1.42E-05	0.00	0.00	0.00	0.00	0.00	0.00	4.89E-07	7.36E-06	2.10E-05	6.64E-07	-5.03E-03
ODP	kg CFC-11 eq.	3.74E-06	5.84E-09	6.21E-10	0.00	0.00	0.00	0.00	0.00	0.00	1.17E-11	2.83E-10	2.03E-10	1.58E-11	-1.10E-07
AP	mol H ⁺ eq.	0.10	9.25E-04	1.76E-03	0.00	0.00	0.00	0.00	0.00	0.00	5.84E-06	7.55E-05	1.78E-04	7.94E-06	-5.07E-02
EP-fw	kg P eq.	5.88E-03	2.95E-05	6.51E-05	0.00	0.00	0.00	0.00	0.00	0.00	2.60E-06	1.43E-06	8.78E-06	3.54E-06	-3.90E-03
EP-m	kg N eq.	2.90E-02	2.34E-04	4.10E-03	0.00	0.00	0.00	0.00	0.00	0.00	4.89E-05	2.75E-05	4.12E-05	6.65E-05	-5.77E-03
EP-t	mol N eq.	0.19	2.53E-03	8.80E-03	0.00	0.00	0.00	0.00	0.00	0.00	1.82E-05	2.99E-04	4.62E-04	2.47E-05	-6.46E-02
POCP	kg NMVOC-eq.	7.45E-02	1.39E-03	4.72E-03	3.06E-06	0.00	0.00	0.00	0.00	0.00	1.15E-05	1.10E-04	1.38E-04	1.56E-05	-2.61E-02
ADPF^{*2}	MJ	382.00	5.47	0.54	0.00	0.00	0.00	0.00	0.00	0.00	1.10E-02	0.27	0.21	1.50E-02	-119.00
ADPE^{*2}	kg Sb eq.	1.24E-04	1.06E-06	1.16E-07	0.00	0.00	0.00	0.00	0.00	0.00	1.23E-09	5.09E-08	9.36E-07	1.67E-09	-4.02E-04
WDP^{*2}	m ³ world eq. deprived	18.90	2.61E-02	3.18E-02	0.00	0.00	0.00	0.00	0.00	0.00	1.16E-04	1.27E-03	3.03E-03	1.58E-04	-1.41
Use of resources															
PERE	MJ	91.60	7.18E-02	8.57E-03	0.00	0.00	0.00	0.00	0.00	0.00	3.41E-04	3.47E-03	2.97E-02	4.64E-04	-6.50
PERM	MJ	91.60	7.18E-02	8.57E-03	0.00	0.00	0.00	0.00	0.00	0.00	3.41E-04	3.47E-03	2.97E-02	4.64E-04	-6.50
PERT	MJ	91.60	7.18E-02	8.57E-03	0.00	0.00	0.00	0.00	0.00	0.00	3.41E-04	3.47E-03	2.97E-02	4.64E-04	-6.50
PENRE	MJ	382.00	5.47	0.54	0.00	0.00	0.00	0.00	0.00	0.00	1.10E-02	0.27	0.21	1.50E-02	-119.00
PENRM	MJ	382.00	5.47	0.54	0.00	0.00	0.00	0.00	0.00	0.00	1.10E-02	0.27	0.21	1.50E-02	-119.00
PENRT	MJ	382.00	5.47	0.54	0.00	0.00	0.00	0.00	0.00	0.00	1.10E-02	0.27	0.21	1.50E-02	-119.00
SM	kg	0.28	2.32E-03	3.05E-04	0.00	0.00	0.00	0.00	0.00	0.00	3.61E-06	1.12E-04	2.32E-04	4.91E-06	-3.38E-02
RSF	MJ	3.33E-02	2.95E-05	4.01E-06	0.00	0.00	0.00	0.00	0.00	0.00	6.24E-08	1.43E-06	9.99E-06	8.48E-08	-2.04E-04
NRSF	MJ	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FW	m ³	0.45	8.00E-04	4.08E-04	0.00	0.00	0.00	0.00	0.00	0.00	-1.29E-04	3.90E-05	8.55E-05	-1.75E-04	-4.07E-02
Waste categories															
HWD	kg	1.55	9.27E-03	6.45E-03	0.00	0.00	0.00	0.00	0.00	0.00	3.04E-05	4.49E-04	1.47E-03	4.13E-05	-0.49
NHWD	kg	38.00	0.17	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.18	8.32E-03	4.24E-02	0.24	-22.10
RWD	kg	3.38E-04	1.18E-06	1.25E-07	0.00	0.00	0.00	0.00	0.00	0.00	6.66E-09	5.72E-08	2.19E-07	9.05E-09	-1.14E-04
Output material flows															
CRU	kg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MFR	kg	3.85E-03	4.08E-05	4.01E-06	0.00	0.00	0.00	0.00	0.00	0.00	2.14E-07	1.97E-06	0.58	2.91E-07	-2.35E-03
MER	kg	2.50E-05	2.51E-07	3.42E-08	0.00	0.00	0.00	0.00	0.00	0.00	7.42E-10	1.17E-08	3.29E-08	1.01E-09	-7.09E-06
EE	MJ	0.32	9.90E-04	1.25E-04	0.00	0.00	0.00	0.00	0.00	0.00	3.79E-06	4.82E-05	1.26E-04	5.16E-06	-2.11E-02

Key:

GWP-t – global warming potential - total **GWP-f** – global warming potential fossil fuels **GWP-b** – global warming potential - biogenic **GWP-l** – global warming potential - land use and land use change **ODP** – ozone depletion potential **AP** - acidification potential **EP-fw** - eutrophication potential - aquatic freshwater **EP-m** - eutrophication potential - aquatic marine **EP-t** - eutrophication potential - terrestrial **POCP** - photochemical ozone formation potential **ADPF^{*2}** - abiotic depletion potential – fossil resources **ADPE^{*2}** - abiotic depletion potential – minerals&metals **WDP^{*2}** – Water (user) deprivation potential **PERE** - Use of renewable primary energy **PERM** - use of renewable primary energy resources **PERT** - total use of renewable primary energy resources **PENRE** - use of non-renewable primary energy **PENRM** - use of non-renewable primary energy resources **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** - net use of fresh water **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 **EE** - exported energy



Results per 1 pc PG4 - Shower channels

Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Additional environmental impact indicators															
PM	Disease incidence	1.28E-06	3.52E-08	4.26E-07	0.00	0.00	0.00	0.00	0.00	0.00	7.86E-11	1.85E-09	2.52E-09	1.07E-10	-2.66E-07
IRP*1	kBq U235 eq.	1.32	4.81E-03	5.06E-04	0.00	0.00	0.00	0.00	0.00	0.00	2.72E-05	2.34E-04	8.78E-04	3.70E-05	-0.46
ETP-fw*2	CTUe	242.00	1.32	19.80	2.50E-05	0.00	0.00	0.00	0.00	0.00	0.34	6.37E-02	0.15	0.47	-58.00
HTP-c*2	CTUh	1.93E-07	1.87E-09	6.31E-09	0.00	0.00	0.00	0.00	0.00	0.00	3.55E-12	9.06E-11	1.33E-10	4.83E-12	-1.64E-08
HTP-nc*2	CTUh	1.39E-07	3.58E-09	6.54E-07	6.65E-13	0.00	0.00	0.00	0.00	0.00	1.62E-10	1.75E-10	8.29E-10	2.21E-10	-3.44E-07
SQP*2	dimensionless	441.00	5.38	1.48	0.00	0.00	0.00	0.00	0.00	0.00	2.05E-02	0.27	0.37	2.79E-02	-20.20

Key:

PM – particulate matter emissions potential **IRP*1** – ionizing radiation potential – human health **ETP-fw*2** - Eco-toxicity potential – freshwater **HTP-c*2** - Human toxicity potential – cancer effects **HTP-nc*2** - Human toxicity potential – non-cancer effects **SQP*2** – soil quality potential

Disclaimers

*1 This impact category deals mainly with the eventual impact of low-dose ionising radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure nor due to radioactive waste disposal in underground facilities. Potential ionising radiation from the soil, from radon and from some building materials is also not measured by this indicator

*2 The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experience with the indicator



Results per 1 pc PG5 - Grates for shower channels

Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Core indicators															
GWP-t	kg CO ₂ eq.	13.00	0.22	3.91	0.00	0.00	0.00	0.00	0.00	0.00	1.75E-02	1.25E-02	6.66E-02	6.91E-02	-12.90
GWP-f	kg CO ₂ eq.	14.30	0.22	2.87E-02	0.00	0.00	0.00	0.00	0.00	0.00	1.20E-03	1.25E-02	6.80E-02	4.72E-03	-12.70
GWP-b	kg CO ₂ eq.	-1.24	8.48E-06	3.88	0.00	0.00	0.00	0.00	0.00	0.00	1.63E-02	4.00E-07	-1.43E-03	6.44E-02	-0.10
GWP-l	kg CO ₂ eq.	1.56E-02	8.99E-05	6.25E-06	0.00	0.00	0.00	0.00	0.00	0.00	3.37E-07	5.08E-06	8.22E-05	1.33E-06	-9.88E-03
ODP	kg CFC-11 eq.	1.35E-07	3.45E-09	2.74E-10	0.00	0.00	0.00	0.00	0.00	0.00	8.05E-12	1.95E-10	7.93E-10	3.17E-11	-9.41E-08
AP	mol H ⁺ eq.	7.49E-02	5.47E-04	7.78E-04	0.00	0.00	0.00	0.00	0.00	0.00	4.03E-06	5.21E-05	6.94E-04	1.59E-05	-6.78E-02
EP-fw	kg P eq.	6.47E-03	1.75E-05	3.02E-05	0.00	0.00	0.00	0.00	0.00	0.00	1.80E-06	9.84E-07	3.43E-05	7.08E-06	-4.08E-03
EP-m	kg N eq.	1.47E-02	1.38E-04	1.81E-03	0.00	0.00	0.00	0.00	0.00	0.00	3.38E-05	1.90E-05	1.61E-04	1.33E-04	-1.24E-02
EP-t	mol N eq.	0.15	1.50E-03	3.87E-03	0.00	0.00	0.00	0.00	0.00	0.00	1.25E-05	2.07E-04	1.80E-03	4.94E-05	-0.13
POCP	kg NMVOC-eq.	4.93E-02	8.24E-04	2.13E-03	3.07E-06	0.00	0.00	0.00	0.00	0.00	7.93E-06	7.56E-05	5.38E-04	3.12E-05	-4.24E-02
ADPF*2	MJ	175.00	3.24	0.24	0.00	0.00	0.00	0.00	0.00	0.00	7.60E-03	0.18	0.84	2.99E-02	-144.00
ADPE*2	kg Sb eq.	3.01E-04	6.27E-07	5.12E-08	0.00	0.00	0.00	0.00	0.00	0.00	8.50E-10	3.51E-08	3.66E-06	3.35E-09	-2.85E-04
WDP*2	m ³ world eq. deprived	4.53	1.54E-02	1.37E-02	0.00	0.00	0.00	0.00	0.00	0.00	8.01E-05	8.76E-04	1.18E-02	3.16E-04	-3.75
Use of resources															
PERE	MJ	69.90	4.25E-02	3.76E-03	0.00	0.00	0.00	0.00	0.00	0.00	2.36E-04	2.40E-03	0.12	9.28E-04	-30.90
PERM	MJ	69.90	4.25E-02	3.76E-03	0.00	0.00	0.00	0.00	0.00	0.00	2.36E-04	2.40E-03	0.12	9.28E-04	-30.90
PERT	MJ	69.90	4.25E-02	3.76E-03	0.00	0.00	0.00	0.00	0.00	0.00	2.36E-04	2.40E-03	0.12	9.28E-04	-30.90
PENRE	MJ	175.00	3.24	0.24	0.00	0.00	0.00	0.00	0.00	0.00	7.60E-03	0.18	0.84	2.99E-02	-144.00
PENRM	MJ	175.00	3.24	0.24	0.00	0.00	0.00	0.00	0.00	0.00	7.60E-03	0.18	0.84	2.99E-02	-144.00
PENRT	MJ	175.00	3.24	0.24	0.00	0.00	0.00	0.00	0.00	0.00	7.60E-03	0.18	0.84	2.99E-02	-144.00
SM	kg	1.36	1.37E-03	1.35E-04	0.00	0.00	0.00	0.00	0.00	0.00	2.49E-06	7.76E-05	9.06E-04	9.82E-06	-1.31
RSF	MJ	3.83E-03	1.74E-05	1.74E-06	0.00	0.00	0.00	0.00	0.00	0.00	4.31E-08	9.88E-07	3.90E-05	1.70E-07	-3.23E-03
NRSF	MJ	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FW	m ³	0.14	4.73E-04	1.74E-04	0.00	0.00	0.00	0.00	0.00	0.00	-8.90E-05	2.69E-05	3.34E-04	-3.51E-04	-0.12
Waste categories															
HWD	kg	12.10	5.49E-03	2.76E-03	0.00	0.00	0.00	0.00	0.00	0.00	2.10E-05	3.10E-04	5.74E-03	8.26E-05	-11.50
NHWD	kg	34.50	0.10	1.02	0.00	0.00	0.00	0.00	0.00	0.00	0.12	5.75E-03	0.17	0.48	-25.70
RWD	kg	2.89E-04	6.97E-07	5.52E-08	0.00	0.00	0.00	0.00	0.00	0.00	4.59E-09	3.95E-08	8.55E-07	1.81E-08	-2.06E-04
Output material flows															
CRU	kg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MFR	kg	3.92E-03	2.41E-05	1.77E-06	0.00	0.00	0.00	0.00	0.00	0.00	1.48E-07	1.36E-06	2.27	5.82E-07	-3.30E-03
MER	kg	1.75E-04	1.49E-07	1.51E-08	0.00	0.00	0.00	0.00	0.00	0.00	5.12E-10	8.11E-09	1.28E-07	2.02E-09	-1.65E-04
EE	MJ	0.30	5.86E-04	5.50E-05	0.00	0.00	0.00	0.00	0.00	0.00	2.62E-06	3.33E-05	4.92E-04	1.03E-05	-0.26

Key:

GWP-t – global warming potential - total **GWP-f** – global warming potential fossil fuels **GWP-b** – global warming potential - biogenic **GWP-l** – global warming potential - land use and land use change **ODP** – ozone depletion potential **AP** - acidification potential **EP-fw** - eutrophication potential - aquatic freshwater **EP-m** - eutrophication potential - aquatic marine **EP-t** - eutrophication potential - terrestrial **POCP** - photochemical ozone formation potential **ADPF*2** - abiotic depletion potential – fossil resources **ADPE*2** - abiotic depletion potential – minerals&metals **WDP*2** – Water (user) deprivation potential **PERE** - Use of renewable primary energy **PERM** - use of renewable primary energy resources **PERT** - total use of renewable primary energy resources **PENRE** - use of non-renewable primary energy **PENRM** - use of non-renewable primary energy resources **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** - net use of fresh water **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 **EE** - exported energy



Results per 1 pc PG5 - Grates for shower channels

Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Additional environmental impact indicators															
PM	Disease incidence	1.07E-06	2.08E-08	1.82E-07	0.00	0.00	0.00	0.00	0.00	0.00	5.42E-11	1.28E-09	9.86E-09	2.14E-10	-1.00E-06
IRP*1	kBq U235 eq.	1.12	2.85E-03	2.23E-04	0.00	0.00	0.00	0.00	0.00	0.00	1.88E-05	1.61E-04	3.43E-03	7.41E-05	-0.83
ETP-fw*2	CTUe	137.00	0.78	8.94	2.50E-05	0.00	0.00	0.00	0.00	0.00	0.24	4.40E-02	0.60	0.93	-124.00
HTP-c*2	CTUh	3.34E-07	1.10E-09	2.82E-09	0.00	0.00	0.00	0.00	0.00	0.00	2.45E-12	6.25E-11	5.21E-10	9.66E-12	-3.16E-07
HTP-nc*2	CTUh	2.68E-07	2.12E-09	3.04E-07	6.67E-13	0.00	0.00	0.00	0.00	0.00	1.12E-10	1.21E-10	3.24E-09	4.42E-10	-2.47E-07
SQP*2	dimensionless	252.00	3.19	0.66	0.00	0.00	0.00	0.00	0.00	0.00	1.42E-02	0.18	1.45	5.58E-02	-60.20

Key:

PM – particulate matter emissions potential **IRP*1** – ionizing radiation potential – human health **ETP-fw*2** - Eco-toxicity potential – freshwater **HTP-c*2** - Human toxicity potential – cancer effects **HTP-nc*2** - Human toxicity potential – non-cancer effects **SQP*2** – soil quality potential

Disclaimers

*1 This impact category deals mainly with the eventual impact of low-dose ionising radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure nor due to radioactive waste disposal in underground facilities. Potential ionising radiation from the soil, from radon and from some building materials is also not measured by this indicator

*2 The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experience with the indicator



Results per 1 pc PG6 - Accessories

Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Core indicators															
GWP-t	kg CO ₂ eq.	8.14	0.13	1.34	0.00	0.00	0.00	0.00	0.00	0.00	1.18E-02	8.45E-03	1.62E-02	2.14E-02	-3.51
GWP-f	kg CO ₂ eq.	8.51	0.13	2.18E-02	0.00	0.00	0.00	0.00	0.00	0.00	8.08E-04	8.44E-03	1.61E-02	1.46E-03	-3.51
GWP-b	kg CO ₂ eq.	-0.39	4.92E-06	1.32	0.00	0.00	0.00	0.00	0.00	0.00	1.10E-02	2.70E-07	2.22E-06	2.00E-02	1.22E-03
GWP-l	kg CO ₂ eq.	8.45E-03	5.22E-05	2.26E-06	0.00	0.00	0.00	0.00	0.00	0.00	2.28E-07	3.43E-06	2.00E-05	4.12E-07	-3.70E-03
ODP	kg CFC-11 eq.	2.83E-06	2.01E-09	9.93E-11	0.00	0.00	0.00	0.00	0.00	0.00	5.43E-12	1.32E-10	1.89E-10	9.83E-12	-4.87E-08
AP	mol H ⁺ eq.	3.66E-02	3.18E-04	2.81E-04	0.00	0.00	0.00	0.00	0.00	0.00	2.72E-06	3.52E-05	1.63E-04	4.92E-06	-0.13
EP-fw	kg P eq.	4.30E-03	1.01E-05	1.03E-05	0.00	0.00	0.00	0.00	0.00	0.00	1.21E-06	6.64E-07	8.00E-06	2.19E-06	-9.95E-03
EP-m	kg N eq.	7.09E-03	8.03E-05	6.55E-04	0.00	0.00	0.00	0.00	0.00	0.00	2.28E-05	1.28E-05	3.83E-05	4.12E-05	-7.23E-03
EP-t	mol N eq.	6.96E-02	8.69E-04	1.41E-03	0.00	0.00	0.00	0.00	0.00	0.00	8.47E-06	1.40E-04	4.27E-04	1.53E-05	-9.62E-02
POCP	kg NMVOC-eq.	2.98E-02	4.79E-04	7.53E-04	3.06E-06	0.00	0.00	0.00	0.00	0.00	5.35E-06	5.11E-05	1.28E-04	9.68E-06	-2.98E-02
ADPF*2	MJ	164.00	1.88	8.57E-02	0.00	0.00	0.00	0.00	0.00	0.00	5.13E-03	0.12	0.20	9.27E-03	-55.80
ADPE*2	kg Sb eq.	1.33E-04	3.64E-07	1.86E-08	0.00	0.00	0.00	0.00	0.00	0.00	5.74E-10	2.37E-08	8.47E-07	1.04E-09	-1.56E-03
WDP*2	m ³ world eq. deprived	3.16	8.97E-03	5.10E-03	0.00	0.00	0.00	0.00	0.00	0.00	5.41E-05	5.92E-04	2.78E-03	9.78E-05	-1.66
Use of resources															
PERE	MJ	20.80	2.47E-02	1.37E-03	0.00	0.00	0.00	0.00	0.00	0.00	1.59E-04	1.62E-03	2.70E-02	2.88E-04	-6.97
PERM	MJ	20.80	2.47E-02	1.37E-03	0.00	0.00	0.00	0.00	0.00	0.00	1.59E-04	1.62E-03	2.70E-02	2.88E-04	-6.97
PERT	MJ	20.80	2.47E-02	1.37E-03	0.00	0.00	0.00	0.00	0.00	0.00	1.59E-04	1.62E-03	2.70E-02	2.88E-04	-6.97
PENRE	MJ	164.00	1.88	8.57E-02	0.00	0.00	0.00	0.00	0.00	0.00	5.13E-03	0.12	0.20	9.27E-03	-55.80
PENRM	MJ	164.00	1.88	8.57E-02	0.00	0.00	0.00	0.00	0.00	0.00	5.13E-03	0.12	0.20	9.27E-03	-55.80
PENRT	MJ	164.00	1.88	8.57E-02	0.00	0.00	0.00	0.00	0.00	0.00	5.13E-03	0.12	0.20	9.27E-03	-55.80
SM	kg	0.28	7.98E-04	4.87E-05	0.00	0.00	0.00	0.00	0.00	0.00	1.68E-06	5.24E-05	2.14E-04	3.04E-06	-7.97E-02
RSF	MJ	7.68E-03	1.01E-05	6.43E-07	0.00	0.00	0.00	0.00	0.00	0.00	2.91E-08	6.67E-07	9.21E-06	5.26E-08	-4.64E-04
NRSF	MJ	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FW	m ³	8.27E-02	2.75E-04	6.54E-05	0.00	0.00	0.00	0.00	0.00	0.00	-6.01E-05	1.82E-05	7.83E-05	-1.09E-04	-5.51E-02
Waste categories															
HWD	kg	1.78	3.19E-03	1.03E-03	0.00	0.00	0.00	0.00	0.00	0.00	1.41E-05	2.09E-04	1.35E-03	2.56E-05	-0.67
NHWD	kg	34.00	5.92E-02	0.37	0.00	0.00	0.00	0.00	0.00	0.00	8.17E-02	3.88E-03	3.89E-02	0.15	-40.60
RWD	kg	2.40E-04	4.05E-07	2.00E-08	0.00	0.00	0.00	0.00	0.00	0.00	3.10E-09	2.66E-08	2.00E-07	5.61E-09	-7.23E-05
Output material flows															
CRU	kg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MFR	kg	3.46E-03	1.40E-05	6.41E-07	0.00	0.00	0.00	0.00	0.00	0.00	9.97E-08	9.20E-07	0.53	1.80E-07	-3.89E-03
MER	kg	2.59E-05	8.63E-08	5.47E-09	0.00	0.00	0.00	0.00	0.00	0.00	3.46E-10	5.47E-09	3.02E-08	6.25E-10	-1.07E-05
EE	MJ	0.20	3.40E-04	2.00E-05	0.00	0.00	0.00	0.00	0.00	0.00	1.77E-06	2.25E-05	1.16E-04	3.20E-06	-2.78E-02

Key:

GWP-t – global warming potential - total **GWP-f** – global warming potential fossil fuels **GWP-b** – global warming potential - biogenic **GWP-l** – global warming potential - land use and land use change **ODP** – ozone depletion potential **AP** - acidification potential **EP-fw** - eutrophication potential - aquatic freshwater **EP-m** - eutrophication potential - aquatic marine **EP-t** - eutrophication potential - terrestrial **POCP** - photochemical ozone formation potential **ADPF*2** - abiotic depletion potential – fossil resources **ADPE*2** - abiotic depletion potential – minerals&metals **WDP*2** – Water (user) deprivation potential **PERE** - Use of renewable primary energy **PERM** - use of renewable primary energy resources **PERT** - total use of renewable primary energy resources **PENRE** - use of non-renewable primary energy **PENRM** - use of non-renewable primary energy resources **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** - net use of fresh water **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 **EE** - exported energy



Results per 1 pc PG6 - Accessories

Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D	
Additional environmental impact indicators																
PM	Disease incidence	4.14E-07	1.21E-08	6.84E-08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.66E-11	8.64E-10	2.41E-09	6.62E-11	-3.37E-07
IRP*1	kBq U235 eq.	0.88	1.65E-03	8.10E-05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.27E-05	1.09E-04	8.02E-04	2.29E-05	-0.28
ETP-fw*2	CTUe	199.00	0.45	3.16	2.50E-05	0.00	0.00	0.00	0.00	0.00	0.00	0.16	2.97E-02	0.15	0.29	-146.00
HTP-c*2	CTUh	1.33E-07	6.41E-10	1.01E-09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.65E-12	4.22E-11	1.24E-10	2.99E-12	-2.43E-08
HTP-nc*2	CTUh	1.31E-07	1.23E-09	1.04E-07	6.65E-13	0.00	0.00	0.00	0.00	0.00	0.00	7.57E-11	8.15E-11	7.58E-10	1.37E-10	-1.27E-06
SQP*2	dimensionless	59.70	1.85	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.56E-03	0.12	0.35	1.73E-02	-41.80

Key:

PM – particulate matter emissions potential **IRP*1** – ionizing radiation potential – human health **ETP-fw*2** - Eco-toxicity potential – freshwater **HTP-c*2** - Human toxicity potential – cancer effects **HTP-nc*2** - Human toxicity potential – non-cancer effects **SQP*2** – soil quality potential

Disclaimers

*1 This impact category deals mainly with the eventual impact of low-dose ionising radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure nor due to radioactive waste disposal in underground facilities. Potential ionising radiation from the soil, from radon and from some building materials is also not measured by this indicator

*2 The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experience with the indicator



Results per 1 pc PG7 - Drains for bathtubs and shower trays

Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Core indicators															
GWP-t	kg CO ₂ eq.	66.10	1.78	2.62	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.14	4.58E-02	0.21	-47.10
GWP-f	kg CO ₂ eq.	66.80	1.78	2.51E-02	0.00	0.00	0.00	0.00	0.00	0.00	1.38E-02	0.14	2.75E-02	1.45E-02	-47.00
GWP-b	kg CO ₂ eq.	-0.70	7.00E-05	2.59	0.00	0.00	0.00	0.00	0.00	0.00	0.19	4.60E-06	1.83E-02	0.20	-1.05E-02
GWP-l	kg CO ₂ eq.	3.93E-02	7.43E-04	4.24E-06	0.00	0.00	0.00	0.00	0.00	0.00	3.88E-06	5.84E-05	5.95E-05	4.09E-06	-3.43E-02
ODP	kg CFC-11 eq.	4.14E-06	2.85E-08	1.86E-10	0.00	0.00	0.00	0.00	0.00	0.00	9.25E-11	2.24E-09	3.29E-10	9.76E-11	-8.53E-07
AP	mol H ⁺ eq.	0.33	4.52E-03	5.27E-04	0.00	0.00	0.00	0.00	0.00	0.00	4.64E-05	5.99E-04	1.88E-04	4.89E-05	-0.33
EP-fw	kg P eq.	2.33E-02	1.44E-04	2.02E-05	0.00	0.00	0.00	0.00	0.00	0.00	2.06E-05	1.13E-05	6.30E-06	2.18E-05	-2.52E-02
EP-m	kg N eq.	4.74E-02	1.14E-03	1.23E-03	0.00	0.00	0.00	0.00	0.00	0.00	3.88E-04	2.18E-04	7.15E-05	4.09E-04	-3.98E-02
EP-t	mol N eq.	0.51	1.24E-02	2.63E-03	0.00	0.00	0.00	0.00	0.00	0.00	1.44E-04	2.38E-03	6.47E-04	1.52E-04	-0.44
POCP	kg NMVOC-eq.	0.38	6.81E-03	1.43E-03	3.07E-06	0.00	0.00	0.00	0.00	0.00	9.11E-05	8.69E-04	2.06E-04	9.61E-05	-0.19
ADPF*2	MJ	2,060.00	26.70	0.16	0.00	0.00	0.00	0.00	0.00	0.00	8.73E-02	2.10	0.33	9.21E-02	-890.00
ADPE*2	kg Sb eq.	2.50E-03	5.18E-06	3.47E-08	0.00	0.00	0.00	0.00	0.00	0.00	9.77E-09	4.04E-07	2.98E-07	1.03E-08	-2.72E-03
WDP*2	m ³ world eq. deprived	16.70	0.13	9.35E-03	0.00	0.00	0.00	0.00	0.00	0.00	9.21E-04	1.01E-02	3.04E-03	9.71E-04	-10.80
Use of resources															
PERE	MJ	81.40	0.35	2.56E-03	0.00	0.00	0.00	0.00	0.00	0.00	2.71E-03	2.76E-02	1.67E-02	2.86E-03	-43.20
PERM	MJ	81.40	0.35	2.56E-03	0.00	0.00	0.00	0.00	0.00	0.00	2.71E-03	2.76E-02	1.67E-02	2.86E-03	-43.20
PERT	MJ	81.40	0.35	2.56E-03	0.00	0.00	0.00	0.00	0.00	0.00	2.71E-03	2.76E-02	1.67E-02	2.86E-03	-43.20
PENRE	MJ	2,060.00	26.70	0.16	0.00	0.00	0.00	0.00	0.00	0.00	8.73E-02	2.10	0.33	9.21E-02	-890.00
PENRM	MJ	2,060.00	26.70	0.16	0.00	0.00	0.00	0.00	0.00	0.00	8.73E-02	2.10	0.33	9.21E-02	-890.00
PENRT	MJ	2,060.00	26.70	0.16	0.00	0.00	0.00	0.00	0.00	0.00	8.73E-02	2.10	0.33	9.21E-02	-890.00
SM	kg	0.48	1.14E-02	9.14E-05	0.00	0.00	0.00	0.00	0.00	0.00	2.87E-05	8.92E-04	2.89E-04	3.02E-05	-0.24
RSF	MJ	5.69E-03	1.44E-04	1.19E-06	0.00	0.00	0.00	0.00	0.00	0.00	4.95E-07	1.14E-05	1.27E-05	5.22E-07	-1.51E-03
NRSF	MJ	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FW	m ³	0.45	3.91E-03	1.19E-04	0.00	0.00	0.00	0.00	0.00	0.00	-1.02E-03	3.09E-04	7.95E-05	-1.08E-03	-0.30
Waste categories															
HWD	kg	3.34	4.53E-02	1.89E-03	0.00	0.00	0.00	0.00	0.00	0.00	2.41E-04	3.56E-03	1.42E-03	2.54E-04	-3.39
NHWD	kg	560.00	0.84	0.69	0.00	0.00	0.00	0.00	0.00	0.00	1.39	6.60E-02	4.33E-02	1.47	-159.00
RWD	kg	1.26E-03	5.76E-06	3.74E-08	0.00	0.00	0.00	0.00	0.00	0.00	5.28E-08	4.54E-07	1.81E-07	5.57E-08	-7.46E-04
Output material flows															
CRU	kg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MFR	kg	1.95E-02	1.99E-04	1.20E-06	0.00	0.00	0.00	0.00	0.00	0.00	1.70E-06	1.57E-05	0.47	1.79E-06	-1.59E-02
MER	kg	1.37E-04	1.23E-06	1.02E-08	0.00	0.00	0.00	0.00	0.00	0.00	5.88E-09	9.32E-08	3.51E-08	6.21E-09	-5.57E-05
EE	MJ	1.15	4.84E-03	3.73E-05	0.00	0.00	0.00	0.00	0.00	0.00	3.01E-05	3.83E-04	1.39E-04	3.17E-05	-0.18

Key:

GWP-t – global warming potential - total **GWP-f** – global warming potential fossil fuels **GWP-b** – global warming potential - biogenic **GWP-l** – global warming potential - land use and land use change **ODP** – ozone depletion potential **AP** - acidification potential **EP-fw** - eutrophication potential - aquatic freshwater **EP-m** - eutrophication potential - aquatic marine **EP-t** - eutrophication potential - terrestrial **POCP** - photochemical ozone formation potential **ADPF*2** - abiotic depletion potential – fossil resources **ADPE*2** - abiotic depletion potential – minerals&metals **WDP*2** – Water (user) deprivation potential **PERE** - Use of renewable primary energy **PERM** - use of renewable primary energy resources **PERT** - total use of renewable primary energy resources **PENRE** - use of non-renewable primary energy **PENRM** - use of non-renewable primary energy resources **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** - net use of fresh water **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 **EE** - exported energy



Results per 1 pc PG7 - Drains for bathtubs and shower trays

Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Additional environmental impact indicators															
PM	Disease incidence	1.96E-06	1.72E-07	1.24E-07	0.00	0.00	0.00	0.00	0.00	0.00	6.23E-10	1.47E-08	7.97E-09	6.57E-10	-1.86E-06
IRP*1	kBq U235 eq.	4.94	2.35E-02	1.51E-04	0.00	0.00	0.00	0.00	0.00	0.00	2.16E-04	1.85E-03	7.37E-04	2.28E-04	-3.04
ETP-fw*2	CTUe	442.00	6.46	6.02	2.50E-05	0.00	0.00	0.00	0.00	0.00	2.71	0.51	0.43	2.86	-471.00
HTP-c*2	CTUh	2.80E-07	9.12E-09	1.90E-09	0.00	0.00	0.00	0.00	0.00	0.00	2.82E-11	7.19E-10	2.47E-10	2.97E-11	-1.23E-07
HTP-nc*2	CTUh	1.99E-06	1.75E-08	2.03E-07	6.67E-13	0.00	0.00	0.00	0.00	0.00	1.29E-09	1.39E-09	7.06E-10	1.36E-09	-2.18E-06
SQP*2	dimensionless	359.00	26.30	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.16	2.11	0.58	0.17	-142.00

Key:

PM – particulate matter emissions potential **IRP*1** – ionizing radiation potential – human health **ETP-fw*2** - Eco-toxicity potential – freshwater **HTP-c*2** - Human toxicity potential – cancer effects **HTP-nc*2** - Human toxicity potential – non-cancer effects **SQP*2** – soil quality potential

Disclaimers

*1 This impact category deals mainly with the eventual impact of low-dose ionising radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure nor due to radioactive waste disposal in underground facilities. Potential ionising radiation from the soil, from radon and from some building materials is also not measured by this indicator

*2 The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experience with the indicator



Results per 1 pc PG8 - Drains for sinks, spouts and appliances

Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Core indicators															
GWP-t	kg CO ₂ eq.	3.29	8.31E-02	0.16	0.00	0.00	0.00	0.00	0.00	0.00	9.22E-03	6.58E-03	1.72E-02	0.61	-3.03
GWP-f	kg CO ₂ eq.	3.25	8.30E-02	1.06E-02	0.00	0.00	0.00	0.00	0.00	0.00	6.29E-04	6.57E-03	1.12E-02	4.15E-02	-3.04
GWP-b	kg CO ₂ eq.	3.17E-02	3.26E-06	0.15	0.00	0.00	0.00	0.00	0.00	0.00	8.59E-03	2.10E-07	6.03E-03	0.57	1.26E-02
GWP-l	kg CO ₂ eq.	5.08E-03	3.46E-05	3.45E-07	0.00	0.00	0.00	0.00	0.00	0.00	1.77E-07	2.67E-06	2.22E-05	1.17E-05	4.82E-04
ODP	kg CFC-11 eq.	2.53E-05	1.33E-09	1.52E-11	0.00	0.00	0.00	0.00	0.00	0.00	4.23E-12	1.03E-10	1.33E-10	2.79E-10	-1.65E-08
AP	mol H ⁺ eq.	7.88E-02	2.10E-04	4.24E-05	0.00	0.00	0.00	0.00	0.00	0.00	2.12E-06	2.74E-05	8.29E-05	1.40E-04	-0.24
EP-fw	kg P eq.	7.02E-03	6.71E-06	1.19E-06	0.00	0.00	0.00	0.00	0.00	0.00	9.44E-07	5.17E-07	3.11E-06	6.22E-05	-1.91E-02
EP-m	kg N eq.	5.45E-03	5.32E-05	9.87E-05	0.00	0.00	0.00	0.00	0.00	0.00	1.77E-05	9.97E-06	2.85E-05	1.17E-03	-1.17E-02
EP-t	mol N eq.	6.69E-02	5.75E-04	2.19E-04	0.00	0.00	0.00	0.00	0.00	0.00	6.60E-06	1.09E-04	2.68E-04	4.35E-04	-0.17
POCP	kg NMVOC-eq.	2.15E-02	3.17E-04	1.04E-04	3.06E-06	0.00	0.00	0.00	0.00	0.00	4.17E-06	3.98E-05	8.43E-05	2.75E-04	-4.64E-02
ADPF^{*2}	MJ	57.90	1.24	1.30E-02	0.00	0.00	0.00	0.00	0.00	0.00	3.99E-03	9.60E-02	0.13	0.26	-31.20
ADPE^{*2}	kg Sb eq.	1.02E-03	2.41E-07	2.86E-09	0.00	0.00	0.00	0.00	0.00	0.00	4.47E-10	1.85E-08	2.07E-07	2.95E-08	-3.32E-03
WDP^{*2}	m ³ world eq. deprived	1.36	5.94E-03	8.65E-04	0.00	0.00	0.00	0.00	0.00	0.00	4.21E-05	4.61E-04	1.36E-03	2.78E-03	7.01
Use of resources															
PERE	MJ	9.47	1.64E-02	2.14E-04	0.00	0.00	0.00	0.00	0.00	0.00	1.24E-04	1.26E-03	8.96E-03	8.16E-03	16.50
PERM	MJ	9.47	1.64E-02	2.14E-04	0.00	0.00	0.00	0.00	0.00	0.00	1.24E-04	1.26E-03	8.96E-03	8.16E-03	16.50
PERT	MJ	9.47	1.64E-02	2.14E-04	0.00	0.00	0.00	0.00	0.00	0.00	1.24E-04	1.26E-03	8.96E-03	8.16E-03	16.50
PENRE	MJ	57.90	1.24	1.30E-02	0.00	0.00	0.00	0.00	0.00	0.00	3.99E-03	9.60E-02	0.13	0.26	-31.20
PENRM	MJ	57.90	1.24	1.30E-02	0.00	0.00	0.00	0.00	0.00	0.00	3.99E-03	9.60E-02	0.13	0.26	-31.20
PENRT	MJ	57.90	1.24	1.30E-02	0.00	0.00	0.00	0.00	0.00	0.00	3.99E-03	9.60E-02	0.13	0.26	-31.20
SM	kg	0.10	5.28E-04	7.27E-06	0.00	0.00	0.00	0.00	0.00	0.00	1.31E-06	4.08E-05	1.23E-04	8.64E-05	-0.22
RSF	MJ	2.51E-03	6.71E-06	1.05E-07	0.00	0.00	0.00	0.00	0.00	0.00	2.26E-08	5.19E-07	5.37E-06	1.49E-06	-1.35E-03
NRSF	MJ	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FW	m ³	4.40E-02	1.82E-04	1.15E-05	0.00	0.00	0.00	0.00	0.00	0.00	-4.68E-05	1.41E-05	3.63E-05	-3.08E-03	0.12
Waste categories															
HWD	kg	1.01	2.11E-03	1.79E-04	0.00	0.00	0.00	0.00	0.00	0.00	1.10E-05	1.63E-04	6.42E-04	7.26E-04	-1.20
NHWD	kg	32.30	3.92E-02	5.49E-02	0.00	0.00	0.00	0.00	0.00	0.00	6.36E-02	3.02E-03	1.93E-02	4.19	-60.80
RWD	kg	9.51E-05	2.68E-07	3.09E-09	0.00	0.00	0.00	0.00	0.00	0.00	2.42E-09	2.07E-08	8.53E-08	1.59E-07	4.93E-05
Output material flows															
CRU	kg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MFR	kg	2.66E-03	9.28E-06	9.76E-08	0.00	0.00	0.00	0.00	0.00	0.00	7.76E-08	7.17E-07	0.22	5.12E-06	-4.63E-03
MER	kg	3.76E-05	5.71E-08	8.47E-10	0.00	0.00	0.00	0.00	0.00	0.00	2.69E-10	4.26E-09	1.55E-08	1.77E-08	-1.84E-05
EE	MJ	5.14E-02	2.25E-04	3.15E-06	0.00	0.00	0.00	0.00	0.00	0.00	1.38E-06	1.75E-05	6.08E-05	9.07E-05	-4.51E-02

Key:

GWP-t – global warming potential - total **GWP-f** – global warming potential fossil fuels **GWP-b** – global warming potential - biogenic **GWP-l** – global warming potential - land use and land use change **ODP** – ozone depletion potential **AP** - acidification potential **EP-fw** - eutrophication potential - aquatic freshwater **EP-m** - eutrophication potential - aquatic marine **EP-t** - eutrophication potential - terrestrial **POCP** - photochemical ozone formation potential **ADPF^{*2}** - abiotic depletion potential – fossil resources **ADPE^{*2}** - abiotic depletion potential – minerals&metals **WDP^{*2}** – Water (user) deprivation potential **PERE** - Use of renewable primary energy **PERM** - use of renewable primary energy resources **PERT** - total use of renewable primary energy resources **PENRE** - use of non-renewable primary energy **PENRM** - use of non-renewable primary energy resources **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** - net use of fresh water **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 **EE** - exported energy



Results per 1 pc PG8 - Drains for sinks, spouts and appliances

Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D	
Additional environmental impact indicators																
PM	Disease incidence	2.67E-07	8.02E-09	1.21E-08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.85E-11	6.73E-10	2.94E-09	1.88E-09	-5.02E-07
IRP*1	kBq U235 eq.	0.34	1.09E-03	1.25E-05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.88E-06	8.47E-05	3.46E-04	6.51E-04	9.49E-02
ETP-fw*2	CTUe	113.00	0.30	0.44	2.50E-05	0.00	0.00	0.00	0.00	0.00	0.00	0.12	2.31E-02	0.16	8.18	-273.00
HTP-c*2	CTUh	3.55E-08	4.25E-10	1.45E-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.29E-12	3.29E-11	9.76E-11	8.49E-11	-4.75E-08
HTP-nc*2	CTUh	7.59E-07	8.15E-10	1.19E-08	6.66E-13	0.00	0.00	0.00	0.00	0.00	0.00	5.89E-11	6.34E-11	3.30E-10	3.89E-09	-2.51E-06
SQP*2	dimensionless	37.90	1.23	3.58E-02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.44E-03	9.66E-02	0.24	0.49	-76.20

Key:

PM – particulate matter emissions potential **IRP*1** – ionizing radiation potential – human health **ETP-fw*2** - Eco-toxicity potential – freshwater **HTP-c*2** - Human toxicity potential – cancer effects **HTP-nc*2** - Human toxicity potential – non-cancer effects **SQP*2** – soil quality potential

Disclaimers

*1 This impact category deals mainly with the eventual impact of low-dose ionising radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure nor due to radioactive waste disposal in underground facilities. Potential ionising radiation from the soil, from radon and from some building materials is also not measured by this indicator

*2 The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experience with the indicator



Results per 1 pc PG9 - Drains for urinals

Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Core indicators															
GWP-t	kg CO ₂ eq.	2.33	3.36E-02	0.19	0.00	0.00	0.00	0.00	0.00	0.00	3.41E-03	2.43E-03	2.12E-04	3.46E-03	-0.83
GWP-f	kg CO ₂ eq.	2.28	3.36E-02	1.43E-02	0.00	0.00	0.00	0.00	0.00	0.00	2.33E-04	2.43E-03	1.25E-04	2.36E-04	-0.83
GWP-b	kg CO ₂ eq.	4.09E-02	1.32E-06	0.17	0.00	0.00	0.00	0.00	0.00	0.00	3.18E-03	7.78E-08	8.74E-05	3.22E-03	-3.48E-05
GWP-l	kg CO ₂ eq.	2.64E-03	1.40E-05	4.18E-07	0.00	0.00	0.00	0.00	0.00	0.00	6.56E-08	9.88E-07	2.76E-07	6.65E-08	-5.67E-04
ODP	kg CFC-11 eq.	3.15E-07	5.38E-10	1.85E-11	0.00	0.00	0.00	0.00	0.00	0.00	1.56E-12	3.79E-11	1.49E-12	1.59E-12	-1.49E-08
AP	mol H ⁺ eq.	6.55E-03	8.52E-05	5.13E-05	0.00	0.00	0.00	0.00	0.00	0.00	7.84E-07	1.01E-05	8.28E-07	7.95E-07	-3.46E-03
EP-fw	kg P eq.	1.58E-03	2.72E-06	1.37E-06	0.00	0.00	0.00	0.00	0.00	0.00	3.49E-07	1.91E-07	2.67E-08	3.54E-07	-2.56E-04
EP-m	kg N eq.	1.52E-03	2.15E-05	1.19E-04	0.00	0.00	0.00	0.00	0.00	0.00	6.56E-06	3.69E-06	3.26E-07	6.66E-06	-5.94E-04
EP-t	mol N eq.	1.34E-02	2.33E-04	2.66E-04	0.00	0.00	0.00	0.00	0.00	0.00	2.44E-06	4.02E-05	2.91E-06	2.47E-06	-6.24E-03
POCP	kg NMVOC-eq.	8.84E-03	1.28E-04	1.23E-04	3.06E-06	0.00	0.00	0.00	0.00	0.00	1.54E-06	1.47E-05	9.30E-07	1.56E-06	-2.89E-03
ADPF*2	MJ	62.30	0.50	1.58E-02	0.00	0.00	0.00	0.00	0.00	0.00	1.48E-03	3.55E-02	1.48E-03	1.50E-03	-15.60
ADPE*2	kg Sb eq.	2.27E-05	9.77E-08	3.47E-09	0.00	0.00	0.00	0.00	0.00	0.00	1.65E-10	6.83E-09	1.06E-09	1.68E-10	-1.34E-05
WDP*2	m ³ world eq. deprived	0.48	2.41E-03	1.07E-03	0.00	0.00	0.00	0.00	0.00	0.00	1.56E-05	1.70E-04	1.33E-05	1.58E-05	-0.16
Use of resources															
PERE	MJ	5.70	6.62E-03	2.61E-04	0.00	0.00	0.00	0.00	0.00	0.00	4.58E-05	4.66E-04	6.81E-05	4.65E-05	-0.68
PERM	MJ	5.70	6.62E-03	2.61E-04	0.00	0.00	0.00	0.00	0.00	0.00	4.58E-05	4.66E-04	6.81E-05	4.65E-05	-0.68
PERT	MJ	5.70	6.62E-03	2.61E-04	0.00	0.00	0.00	0.00	0.00	0.00	4.58E-05	4.66E-04	6.81E-05	4.65E-05	-0.68
PENRE	MJ	62.30	0.50	1.58E-02	0.00	0.00	0.00	0.00	0.00	0.00	1.48E-03	3.55E-02	1.48E-03	1.50E-03	-15.60
PENRM	MJ	62.30	0.50	1.58E-02	0.00	0.00	0.00	0.00	0.00	0.00	1.48E-03	3.55E-02	1.48E-03	1.50E-03	-15.60
PENRT	MJ	62.30	0.50	1.58E-02	0.00	0.00	0.00	0.00	0.00	0.00	1.48E-03	3.55E-02	1.48E-03	1.50E-03	-15.60
SM	kg	1.01E-02	2.14E-04	8.79E-06	0.00	0.00	0.00	0.00	0.00	0.00	4.85E-07	1.51E-05	1.29E-06	4.91E-07	-2.66E-03
RSF	MJ	1.21E-03	2.72E-06	1.29E-07	0.00	0.00	0.00	0.00	0.00	0.00	8.38E-09	1.92E-07	5.68E-08	8.50E-09	-1.76E-05
NRSF	MJ	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FW	m ³	1.39E-02	7.37E-05	1.43E-05	0.00	0.00	0.00	0.00	0.00	0.00	-1.73E-05	5.23E-06	3.47E-07	-1.76E-05	-4.35E-03
Waste categories															
HWD	kg	9.45E-02	8.55E-04	2.22E-04	0.00	0.00	0.00	0.00	0.00	0.00	4.07E-06	6.02E-05	6.22E-06	4.13E-06	-4.97E-02
NHWD	kg	15.80	1.59E-02	6.64E-02	0.00	0.00	0.00	0.00	0.00	0.00	2.35E-02	1.12E-03	1.90E-04	2.39E-02	-2.08
RWD	kg	7.85E-05	1.09E-07	3.76E-09	0.00	0.00	0.00	0.00	0.00	0.00	8.93E-10	7.67E-09	7.78E-10	9.06E-10	-1.28E-05
Output material flows															
CRU	kg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MFR	kg	6.75E-04	3.76E-06	1.18E-07	0.00	0.00	0.00	0.00	0.00	0.00	2.87E-08	2.65E-07	2.03E-03	2.91E-08	-2.13E-04
MER	kg	2.60E-06	2.31E-08	1.03E-09	0.00	0.00	0.00	0.00	0.00	0.00	9.95E-11	1.58E-09	1.55E-10	1.01E-10	-7.66E-07
EE	MJ	3.00E-02	9.12E-05	3.84E-06	0.00	0.00	0.00	0.00	0.00	0.00	5.09E-07	6.47E-06	6.17E-07	5.16E-07	-2.57E-03

Key:

GWP-t – global warming potential - total **GWP-f** – global warming potential fossil fuels **GWP-b** – global warming potential - biogenic **GWP-l** – global warming potential - land use and land use change **ODP** – ozone depletion potential **AP** - acidification potential **EP-fw** - eutrophication potential - aquatic freshwater **EP-m** - eutrophication potential - aquatic marine **EP-t** - eutrophication potential - terrestrial **POCP** - photochemical ozone formation potential **ADPF*2** - abiotic depletion potential – fossil resources **ADPE*2** - abiotic depletion potential – minerals&metals **WDP*2** – Water (user) deprivation potential **PERE** - Use of renewable primary energy **PERM** - use of renewable primary energy resources **PERT** - total use of renewable primary energy resources **PENRE** - use of non-renewable primary energy **PENRM** - use of non-renewable primary energy resources **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** - net use of fresh water **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 **EE** - exported energy



Results per 1 pc PG9 - Drains for urinals

Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Additional environmental impact indicators															
PM	Disease incidence	4.49E-08	3.25E-09	1.50E-08	0.00	0.00	0.00	0.00	0.00	0.00	1.05E-11	2.49E-10	3.71E-11	1.07E-11	-2.79E-08
IRP*1	kBq U235 eq.	0.27	4.43E-04	1.52E-05	0.00	0.00	0.00	0.00	0.00	0.00	3.65E-06	3.13E-05	3.18E-06	3.71E-06	-5.25E-02
ETP-fw*2	CTUe	9.56	0.12	0.52	2.50E-05	0.00	0.00	0.00	0.00	0.00	4.59E-02	8.55E-03	1.98E-03	4.65E-02	-4.64
HTP-c*2	CTUh	7.94E-09	1.72E-10	1.75E-10	0.00	0.00	0.00	0.00	0.00	0.00	4.77E-13	1.22E-11	1.13E-12	4.83E-13	-1.73E-09
HTP-nc*2	CTUh	2.52E-08	3.30E-10	1.36E-08	6.66E-13	0.00	0.00	0.00	0.00	0.00	2.18E-11	2.35E-11	3.05E-12	2.21E-11	-1.24E-08
SQP*2	dimensionless	14.30	0.50	4.33E-02	0.00	0.00	0.00	0.00	0.00	0.00	2.75E-03	3.57E-02	2.63E-03	2.79E-03	-1.72

Key:

PM – particulate matter emissions potential **IRP*1** – ionizing radiation potential – human health **ETP-fw*2** - Eco-toxicity potential – freshwater **HTP-c*2** - Human toxicity potential – cancer effects **HTP-nc*2** - Human toxicity potential – non-cancer effects **SQP*2** – soil quality potential

Disclaimers

*1 This impact category deals mainly with the eventual impact of low-dose ionising radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure nor due to radioactive waste disposal in underground facilities. Potential ionising radiation from the soil, from radon and from some building materials is also not measured by this indicator

*2 The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experience with the indicator



Results per 1 pc PG10 - Drains for washbasins and bidets

Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Core indicators															
GWP-t	kg CO ₂ eq.	5.11	0.13	0.34	0.00	0.00	0.00	0.00	0.00	0.00	1.37E-02	9.79E-03	4.66E-02	0.91	-4.83
GWP-f	kg CO ₂ eq.	5.10	0.13	9.13E-02	0.00	0.00	0.00	0.00	0.00	0.00	9.36E-04	9.78E-03	2.86E-02	6.19E-02	-4.85
GWP-b	kg CO ₂ eq.	-3.44E-03	5.18E-06	0.25	0.00	0.00	0.00	0.00	0.00	0.00	1.28E-02	3.13E-07	1.79E-02	0.85	1.48E-02
GWP-l	kg CO ₂ eq.	8.58E-03	5.49E-05	1.39E-06	0.00	0.00	0.00	0.00	0.00	0.00	2.64E-07	3.97E-06	6.05E-05	1.74E-05	-2.00E-03
ODP	kg CFC-11 eq.	9.53E-08	2.11E-09	6.22E-11	0.00	0.00	0.00	0.00	0.00	0.00	6.29E-12	1.53E-10	3.42E-10	4.16E-10	-3.00E-08
AP	mol H ⁺ eq.	0.21	3.34E-04	1.68E-04	0.00	0.00	0.00	0.00	0.00	0.00	3.15E-06	4.07E-05	2.01E-04	2.09E-04	-0.41
EP-fw	kg P eq.	1.77E-02	1.07E-05	2.23E-06	0.00	0.00	0.00	0.00	0.00	0.00	1.40E-06	7.69E-07	7.01E-06	9.29E-05	-3.29E-02
EP-m	kg N eq.	1.22E-02	8.44E-05	3.91E-04	0.00	0.00	0.00	0.00	0.00	0.00	2.64E-05	1.48E-05	7.41E-05	1.75E-03	-2.01E-02
EP-t	mol N eq.	0.16	9.14E-04	9.13E-04	0.00	0.00	0.00	0.00	0.00	0.00	9.81E-06	1.62E-04	6.78E-04	6.49E-04	-0.29
POCP	kg NMVOC-eq.	4.83E-02	5.04E-04	3.43E-04	3.06E-06	0.00	0.00	0.00	0.00	0.00	6.20E-06	5.91E-05	2.15E-04	4.10E-04	-7.90E-02
ADPF*2	MJ	83.50	1.98	5.21E-02	0.00	0.00	0.00	0.00	0.00	0.00	5.94E-03	0.14	0.34	0.39	-51.70
ADPE*2	kg Sb eq.	2.89E-03	3.83E-07	1.17E-08	0.00	0.00	0.00	0.00	0.00	0.00	6.65E-10	2.75E-08	3.79E-07	4.39E-08	-5.75E-03
WDP*2	m ³ world eq. deprived	3.12	9.44E-03	4.08E-03	0.00	0.00	0.00	0.00	0.00	0.00	6.26E-05	6.85E-04	3.26E-03	4.14E-03	7.15
Use of resources															
PERE	MJ	16.80	2.60E-02	9.00E-04	0.00	0.00	0.00	0.00	0.00	0.00	1.84E-04	1.88E-03	1.91E-02	1.22E-02	15.40
PERM	MJ	16.80	2.60E-02	9.00E-04	0.00	0.00	0.00	0.00	0.00	0.00	1.84E-04	1.88E-03	1.91E-02	1.22E-02	15.40
PERT	MJ	16.80	2.60E-02	9.00E-04	0.00	0.00	0.00	0.00	0.00	0.00	1.84E-04	1.88E-03	1.91E-02	1.22E-02	15.40
PENRE	MJ	83.50	1.98	5.21E-02	0.00	0.00	0.00	0.00	0.00	0.00	5.94E-03	0.14	0.34	0.39	-51.70
PENRM	MJ	83.50	1.98	5.21E-02	0.00	0.00	0.00	0.00	0.00	0.00	5.94E-03	0.14	0.34	0.39	-51.70
PENRT	MJ	83.50	1.98	5.21E-02	0.00	0.00	0.00	0.00	0.00	0.00	5.94E-03	0.14	0.34	0.39	-51.70
SM	kg	0.21	8.39E-04	2.84E-05	0.00	0.00	0.00	0.00	0.00	0.00	1.95E-06	6.07E-05	3.06E-04	1.29E-04	-0.29
RSF	MJ	6.64E-03	1.07E-05	4.76E-07	0.00	0.00	0.00	0.00	0.00	0.00	3.37E-08	7.72E-07	1.34E-05	2.23E-06	-2.04E-03
NRSF	MJ	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FW	m ³	0.10	2.89E-04	5.71E-05	0.00	0.00	0.00	0.00	0.00	0.00	-6.96E-05	2.10E-05	8.60E-05	-4.60E-03	9.60E-02
Waste categories															
HWD	kg	1.56	3.35E-03	8.71E-04	0.00	0.00	0.00	0.00	0.00	0.00	1.64E-05	2.42E-04	1.53E-03	1.08E-03	-1.56
NHWD	kg	74.30	6.23E-02	0.22	0.00	0.00	0.00	0.00	0.00	0.00	9.46E-02	4.49E-03	4.65E-02	6.26	-110.00
RWD	kg	1.55E-04	4.26E-07	1.27E-08	0.00	0.00	0.00	0.00	0.00	0.00	3.59E-09	3.09E-08	1.98E-07	2.38E-07	1.67E-05
Output material flows															
CRU	kg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MFR	kg	6.62E-03	1.47E-05	3.93E-07	0.00	0.00	0.00	0.00	0.00	0.00	1.16E-07	1.07E-06	0.52	7.64E-06	-9.16E-03
MER	kg	5.17E-05	9.07E-08	3.51E-09	0.00	0.00	0.00	0.00	0.00	0.00	4.00E-10	6.34E-09	3.76E-08	2.65E-08	-2.56E-05
EE	MJ	8.36E-02	3.58E-04	1.34E-05	0.00	0.00	0.00	0.00	0.00	0.00	2.05E-06	2.60E-05	1.48E-04	1.35E-04	-6.97E-02

Key:

GWP-t – global warming potential - total **GWP-f** – global warming potential fossil fuels **GWP-b** – global warming potential - biogenic **GWP-l** – global warming potential - land use and land use change **ODP** – ozone depletion potential **AP** - acidification potential **EP-fw** - eutrophication potential - aquatic freshwater **EP-m** - eutrophication potential - aquatic marine **EP-t** - eutrophication potential - terrestrial **POCP** - photochemical ozone formation potential **ADPF*2** - abiotic depletion potential – fossil resources **ADPE*2** - abiotic depletion potential – minerals&metals **WDP*2** – Water (user) deprivation potential **PERE** - Use of renewable primary energy **PERM** - use of renewable primary energy resources **PERT** - total use of renewable primary energy resources **PENRE** - use of non-renewable primary energy **PENRM** - use of non-renewable primary energy resources **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** - net use of fresh water **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 **EE** - exported energy



Results per 1 pc PG10 - Drains for washbasins and bidets

Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D	
Additional environmental impact indicators																
PM	Disease incidence	5.66E-07	1.27E-08	6.02E-08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.24E-11	1.00E-09	8.07E-09	2.80E-09	-8.55E-07
IRP*1	kBq U235 eq.	0.57	1.74E-03	5.14E-05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.47E-05	1.26E-04	8.06E-04	9.72E-04	-4.81E-02
ETP-fw*2	CTUe	275.00	0.48	1.44	2.50E-05	0.00	0.00	0.00	0.00	0.00	0.00	0.19	3.44E-02	0.43	12.20	-488.00
HTP-c*2	CTUh	5.58E-08	6.74E-10	5.33E-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.92E-12	4.89E-11	2.55E-10	1.27E-10	-6.61E-08
HTP-nc*2	CTUh	2.15E-06	1.29E-09	2.15E-08	6.66E-13	0.00	0.00	0.00	0.00	0.00	0.00	8.77E-11	9.44E-11	7.71E-10	5.80E-09	-4.33E-06
SQP*2	dimensionless	86.20	1.95	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.11E-02	0.14	0.61	0.73	-130.00

Key:

PM – particulate matter emissions potential **IRP*1** – ionizing radiation potential – human health **ETP-fw*2** - Eco-toxicity potential – freshwater **HTP-c*2** - Human toxicity potential – cancer effects **HTP-nc*2** - Human toxicity potential – non-cancer effects **SQP*2** – soil quality potential

Disclaimers

*1 This impact category deals mainly with the eventual impact of low-dose ionising radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure nor due to radioactive waste disposal in underground facilities. Potential ionising radiation from the soil, from radon and from some building materials is also not measured by this indicator

*2 The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experience with the indicator



Results per 1 pc PG11 - Electronic mixing unit

Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Core indicators															
GWP-t	kg CO ₂ eq.	10.20	0.26	8.66	0.00	0.00	0.00	0.00	229.00	0.00	1.30E-02	9.30E-03	0.12	0.29	-10.10
GWP-f	kg CO ₂ eq.	13.30	0.26	9.49E-02	0.00	0.00	0.00	0.00	221.00	0.00	8.90E-04	9.30E-03	7.77E-02	1.98E-02	-10.10
GWP-b	kg CO ₂ eq.	-3.05	1.01E-05	8.57	0.00	0.00	0.00	0.00	7.79	0.00	1.22E-02	2.98E-07	4.22E-02	0.27	-3.42E-02
GWP-l	kg CO ₂ eq.	2.78E-02	1.08E-04	1.41E-05	0.00	0.00	0.00	0.00	0.67	0.00	2.51E-07	3.78E-06	1.59E-04	5.58E-06	-1.54E-02
ODP	kg CFC-11 eq.	2.45E-07	4.13E-09	6.20E-10	0.00	0.00	0.00	0.00	4.07E-06	0.00	5.98E-12	1.45E-10	8.53E-10	1.33E-10	-1.37E-07
AP	mol H ⁺ eq.	0.51	6.55E-04	1.76E-03	0.00	0.00	0.00	0.00	1.30	0.00	3.00E-06	3.87E-05	5.02E-04	6.67E-05	-0.43
EP-fw	kg P eq.	3.94E-02	2.09E-05	6.68E-05	0.00	0.00	0.00	0.00	0.21	0.00	1.34E-06	7.32E-07	2.06E-05	2.97E-05	-3.07E-02
EP-m	kg N eq.	3.33E-02	1.65E-04	4.10E-03	0.00	0.00	0.00	0.00	0.20	0.00	2.51E-05	1.41E-05	1.78E-04	5.58E-04	-2.55E-02
EP-t	mol N eq.	0.56	1.79E-03	8.78E-03	0.00	0.00	0.00	0.00	1.83	0.00	9.33E-06	1.54E-04	1.63E-03	2.07E-04	-0.45
POCP	kg NMVOC-eq.	0.12	9.86E-04	4.77E-03	3.06E-06	0.00	0.00	0.00	0.60	0.00	5.90E-06	5.62E-05	5.14E-04	1.31E-04	-9.09E-02
ADPF^{*2}	MJ	198.00	3.87	0.54	0.00	0.00	0.00	0.00	5,140.00	0.00	5.65E-03	0.14	0.94	0.13	-136.00
ADPE^{*2}	kg Sb eq.	6.06E-03	7.50E-07	1.16E-07	0.00	0.00	0.00	0.00	2.98E-03	0.00	6.32E-10	2.61E-08	7.23E-07	1.41E-08	-5.23E-03
WDP^{*2}	m ³ world eq. deprived	8.62	1.85E-02	3.14E-02	0.00	0.00	0.00	0.00	140.00	0.00	5.95E-05	6.52E-04	1.00E-02	1.32E-03	-6.17
Use of resources															
PERE	MJ	107.00	5.09E-02	8.54E-03	0.00	0.00	0.00	0.00	1,410.00	0.00	1.75E-04	1.78E-03	6.08E-02	3.90E-03	-22.30
PERM	MJ	107.00	5.09E-02	8.54E-03	0.00	0.00	0.00	0.00	1,410.00	0.00	1.75E-04	1.78E-03	6.08E-02	3.90E-03	-22.30
PERT	MJ	107.00	5.09E-02	8.54E-03	0.00	0.00	0.00	0.00	1,410.00	0.00	1.75E-04	1.78E-03	6.08E-02	3.90E-03	-22.30
PENRE	MJ	198.00	3.87	0.54	0.00	0.00	0.00	0.00	5,140.00	0.00	5.65E-03	0.14	0.94	0.13	-136.00
PENRM	MJ	198.00	3.87	0.54	0.00	0.00	0.00	0.00	5,140.00	0.00	5.65E-03	0.14	0.94	0.13	-136.00
PENRT	MJ	198.00	3.87	0.54	0.00	0.00	0.00	0.00	5,140.00	0.00	5.65E-03	0.14	0.94	0.13	-136.00
SM	kg	0.32	1.64E-03	3.05E-04	0.00	0.00	0.00	0.00	0.85	0.00	1.85E-06	5.77E-05	7.02E-04	4.12E-05	-0.25
RSF	MJ	5.48E-03	2.09E-05	3.97E-06	0.00	0.00	0.00	0.00	6.78E-03	0.00	3.20E-08	7.34E-07	3.67E-05	7.13E-07	-1.80E-03
NRSF	MJ	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FW	m ³	0.26	5.66E-04	4.00E-04	0.00	0.00	0.00	0.00	4.44	0.00	-6.62E-05	2.00E-05	2.71E-04	-1.47E-03	-0.19
Waste categories															
HWD	kg	2.80	6.56E-03	6.34E-03	0.00	0.00	0.00	0.00	13.00	0.00	1.56E-05	2.30E-04	4.53E-03	3.47E-04	-2.20
NHWD	kg	155.00	0.12	2.31	0.00	0.00	0.00	0.00	1,010.00	0.00	9.00E-02	4.27E-03	0.13	2.00	-121.00
RWD	kg	4.15E-04	8.33E-07	1.25E-07	0.00	0.00	0.00	0.00	3.65E-02	0.00	3.42E-09	2.93E-08	8.71E-07	7.60E-08	-2.53E-04
Output material flows															
CRU	kg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MFR	kg	1.63E-02	2.89E-05	4.01E-06	0.00	0.00	0.00	0.00	0.53	0.00	1.10E-07	1.01E-06	1.02	2.44E-06	-1.31E-02
MER	kg	5.33E-05	1.78E-07	3.41E-08	0.00	0.00	0.00	0.00	7.19E-05	0.00	3.81E-10	6.03E-09	9.24E-08	8.46E-09	-3.86E-05
EE	MJ	0.26	7.01E-04	1.25E-04	0.00	0.00	0.00	0.00	23.80	0.00	1.95E-06	2.47E-05	5.04E-04	4.33E-05	-0.13

Key:

GWP-t – global warming potential - total **GWP-f** – global warming potential fossil fuels **GWP-b** – global warming potential - biogenic **GWP-l** – global warming potential - land use and land use change **ODP** – ozone depletion potential **AP** - acidification potential **EP-fw** - eutrophication potential - aquatic freshwater **EP-m** - eutrophication potential - aquatic marine **EP-t** - eutrophication potential - terrestrial **POCP** - photochemical ozone formation potential **ADPF^{*2}** - abiotic depletion potential – fossil resources **ADPE^{*2}** - abiotic depletion potential – minerals&metals **WDP^{*2}** – Water (user) deprivation potential **PERE** - Use of renewable primary energy **PERM** - use of renewable primary energy resources **PERT** - total use of renewable primary energy resources **PENRE** - use of non-renewable primary energy **PENRM** - use of non-renewable primary energy resources **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** - net use of fresh water **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 **EE** - exported energy



Results per 1 pc PG11 - Electronic mixing unit

Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D	
Additional environmental impact indicators																
PM	Disease incidence	1.67E-06	2.49E-08	4.18E-07	0.00	0.00	0.00	0.00	4.63E-06	0.00	4.03E-11	9.52E-10	1.90E-08	8.97E-10	-1.34E-06	
IRP*1	kBq U235 eq.	1.58	3.41E-03	5.05E-04	0.00	0.00	0.00	0.00	142.00	0.00	1.40E-05	1.20E-04	3.56E-03	3.11E-04	-0.99	
ETP-fw*2	CTUe	712.00	0.94	20.00	2.50E-05	0.00	0.00	0.00	919.00	0.00	0.18	3.27E-02	1.04	3.90	-585.00	
HTP-c*2	CTUh	1.24E-07	1.32E-09	6.34E-09	0.00	0.00	0.00	0.00	5.25E-07	0.00	1.82E-12	4.65E-11	6.00E-10	4.05E-11	-8.72E-08	
HTP-nc*2	CTUh	4.60E-06	2.53E-09	6.71E-07	6.66E-13	0.00	0.00	0.00	3.89E-06	0.00	8.34E-11	8.97E-11	2.01E-09	1.85E-09	-3.93E-06	
SQP*2	dimensionless	579.00	3.81	1.48	0.00	0.00	0.00	0.00	1,140.00	0.00	1.05E-02	0.14	1.37	0.23	-135.00	

Key:

PM – particulate matter emissions potential **IRP*1** – ionizing radiation potential – human health **ETP-fw*2** - Eco-toxicity potential – freshwater **HTP-c*2** - Human toxicity potential – cancer effects **HTP-nc*2** - Human toxicity potential – non-cancer effects **SQP*2** – soil quality potential

Disclaimers

*1 This impact category deals mainly with the eventual impact of low-dose ionising radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure nor due to radioactive waste disposal in underground facilities. Potential ionising radiation from the soil, from radon and from some building materials is also not measured by this indicator

*2 The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experience with the indicator

6.4 Interpretation, LCA presentation and critical review

Evaluation

The differences in the environmental impact of the products lie in the various pre-products and raw materials used and in the mass of the pre-products and raw materials used in each case.

The LCA covers the complete life cycle. Only the Cluster backwater valves and electronic mixing unit have emissions in the utilisation phase (B6). In addition, it is assumed that all product groups have contact with the indoor air. B1 (VOC mixed calculation) is therefore taken into account.

When analyzing the results, it is important to ensure that 1 unit is always used as the functional unit for the clusters:

- Backwater valves 1 pc
- Bathroom and balcony drains 1 pc
- Floor and cellar drains 1 pc
- Shower channels 1 pc
- Grates for shower channels 1 pc
- Accessories 1 pc
- Drains for bath and shower tray 1 pc
- Drains for sinks, spouts and appliances 1 pc
- Drains for urinal 1 pc
- Drains for washbasins and bidets 1 pc
- Electronic mixing unit 1 pc

The influence of life cycle phase B6 is significant for the product groups where electricity is consumed during the use phase (backwater valves and electronic mixing unit).

For all product groups (with the exception of the electronic mixing unit), life cycle phases A1-A3 are the most dominant in terms of total GWP.

Due to the high proportion of stainless steel, the product group shower channel has a high recycling potential.

The product groups shower channel and electronic mixing unit have a large proportion of packaging, including biogenic C. As a result, the share of GWP - biogenic in life cycle phase A1-A3 is negative.

The absolute values of the raw material input are directly related to the weights of the various product groups. In addition, the influence of raw materials is more significant in the product groups with electronic components (backwater valves and electronic mixing units).

The breakdown of the major environmental impacts is shown in the diagram below.

The values obtained from the LCA calculation are suitable for the certification of buildings.

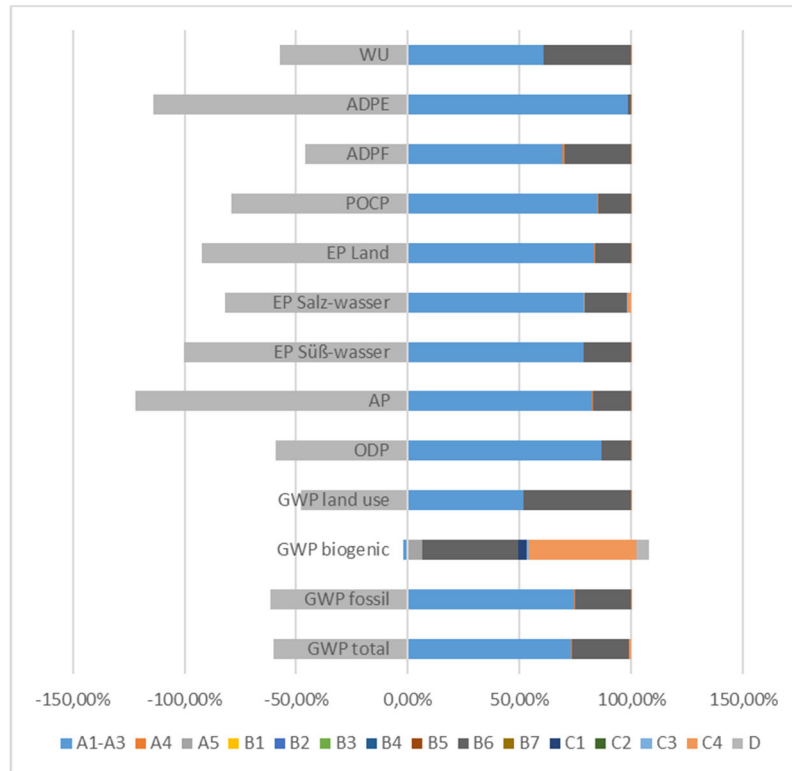


Illustration 12 Percentage of the modules in selected environmental impact indicators – Backwater valves

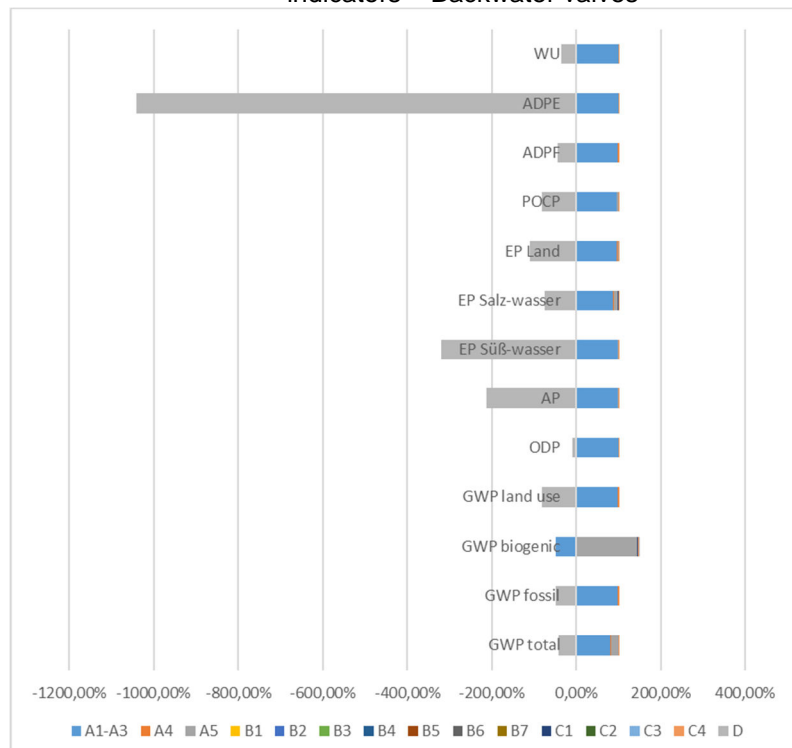


Illustration 13 Percentage of the modules in selected environmental impact categories - Bathroom and balcony drains

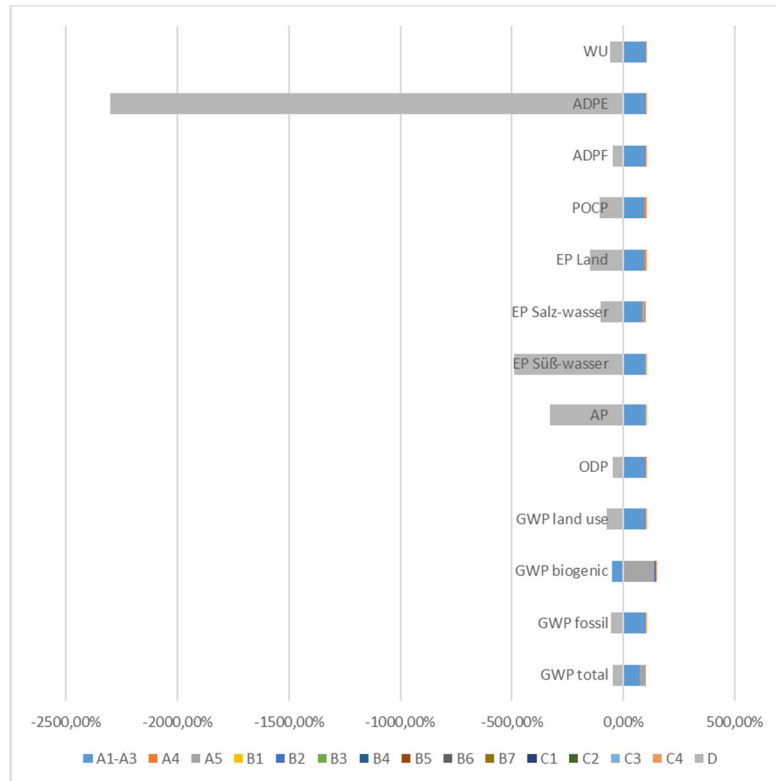


Illustration 14 Percentage of the modules in selected environmental impact categories - Floor and cellar drains

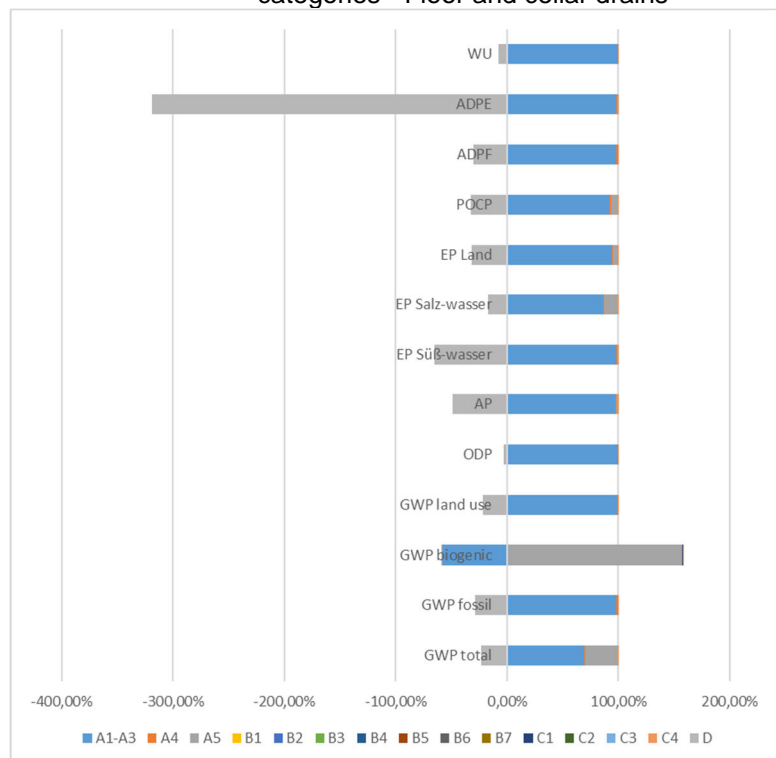


Illustration 15 Percentage of the modules in selected environmental impact categories - Shower channel

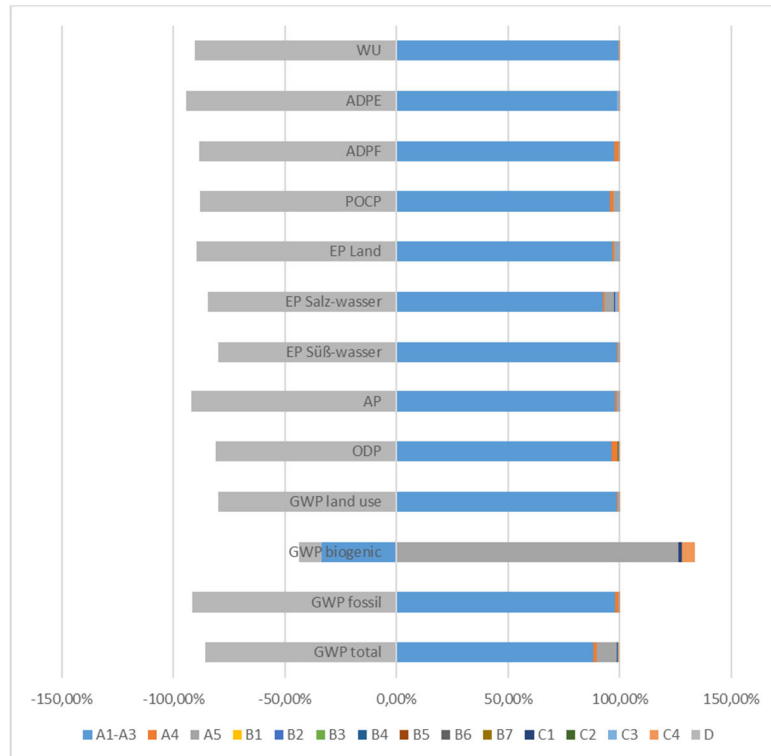


Illustration 16 Percentage of the modules in selected environmental impact categories - Grates for shower channel

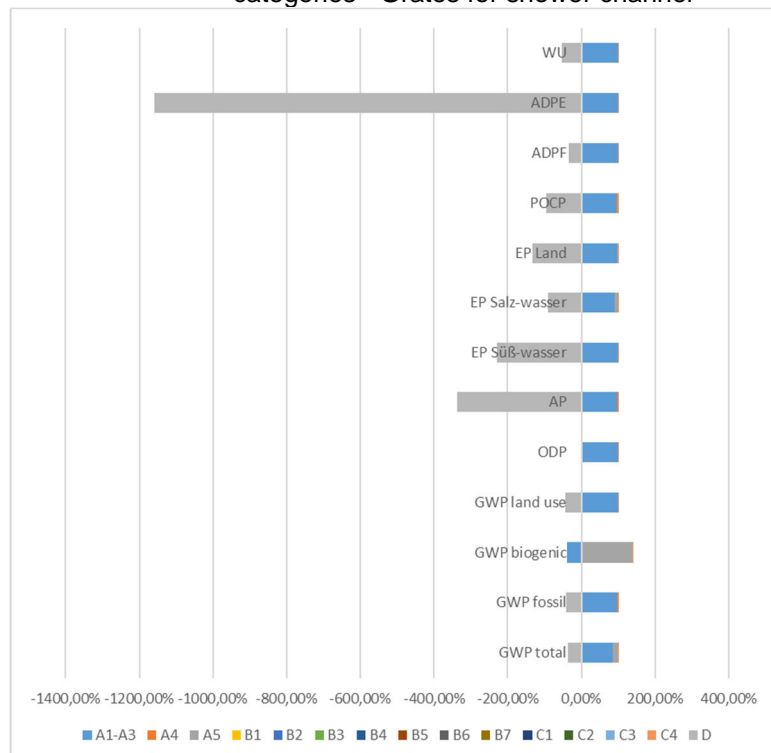


Illustration 17 Percentage of the modules in selected environmental impact indicators - Accessories

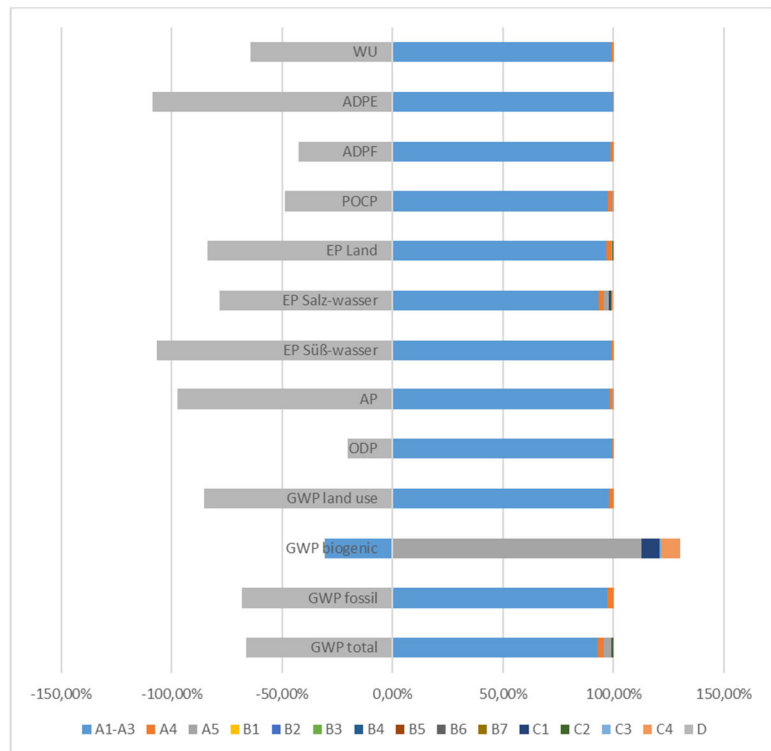


Illustration 18 Percentage of the modules in selected environmental impact categories - Drains for bathtubs and shower trays

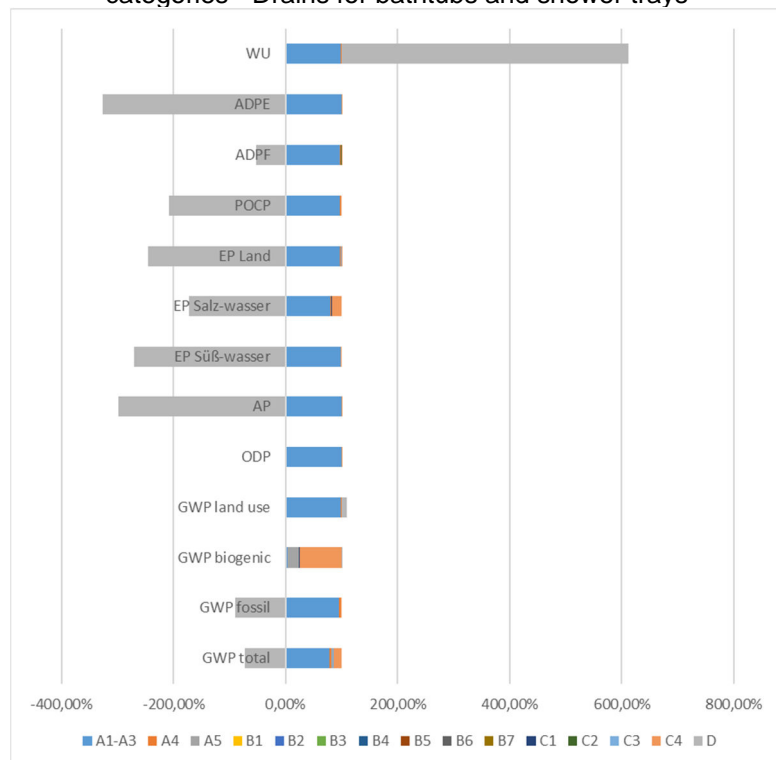


Illustration 19 Percentage of the modules in selected environmental impact indicators - Drains for sinks, spouts and appliances

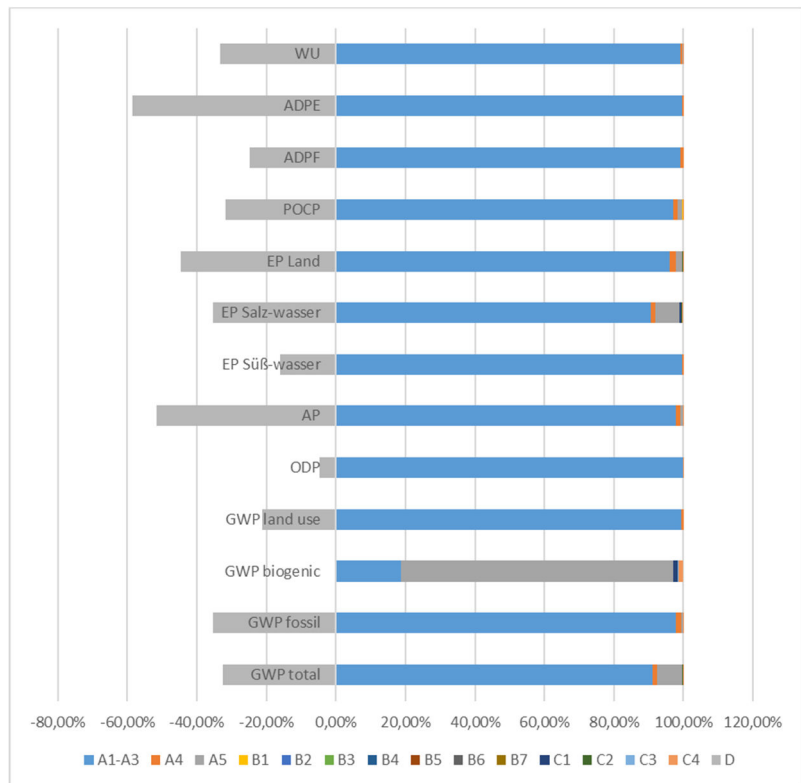


Illustration 20 Percentage of the modules in selected environmental impact categories - Drains for urinals

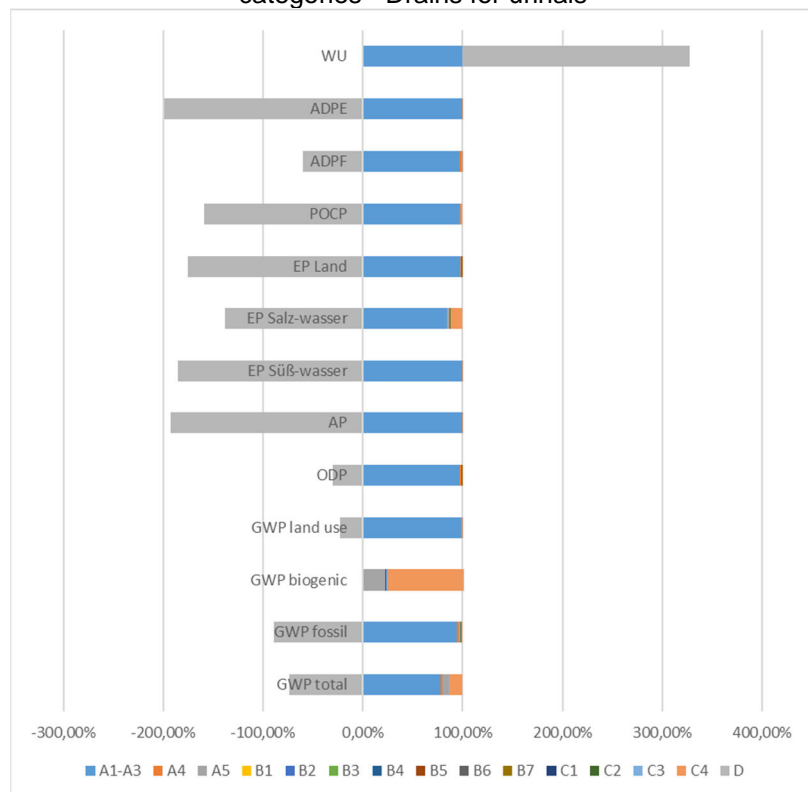


Illustration 21 Percentage of the modules in selected environmental impact categories - Drains for washbasins and bidets

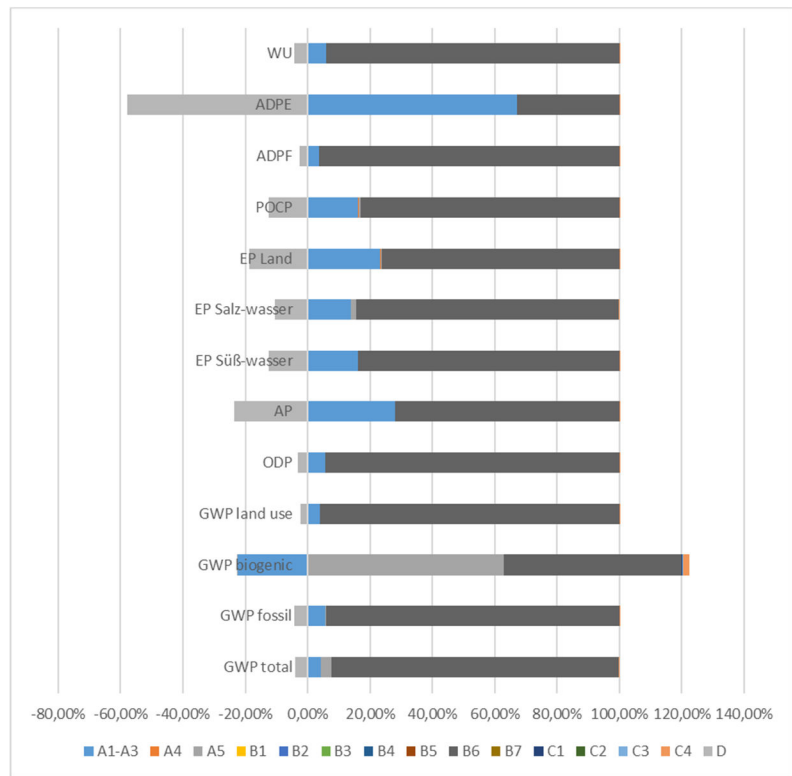


Illustration 22 Percentage of the modules in selected environmental impact categories - Electronic mixing unit

Report

The LCA report underlying this EPD was developed according to the requirements of DIN EN ISO 14040 and DIN EN ISO 14044 as well as DIN EN 15804 and DIN EN ISO 14025. It is deposited with ift Rosenheim. The results and conclusions reported to the target group are complete, correct, without bias and transparent. The results of the study are not designed to be used for comparative statements intended for publication.

Critical review

The critical review of the LCA and of the report took place in the course of verification of the EPD and was carried out by Prof. Dr. Eric Brehm, an external verifier.



7 General information regarding the EPD

Comparability

This EPD was prepared in accordance with DIN EN 15804 and is therefore only comparable to those EPDs that also comply with the requirements set out in DIN EN 15804.

Any comparison must refer to the building context and the same boundary conditions of the various life cycle stages.

For comparing EPDs of construction products, the rules set out in DIN EN 15804, Clause 5.3, apply.

The detailed individual results of the products were summarised on the basis of conservative assumptions and differ from the average results. Identification of the product groups and the resulting variations are documented in the background report.

Communication

The communications format of this EPD meets the requirements of EN 15942:2012 and is therefore the basis for B2B communication. Only the nomenclature has been changed according to DIN EN 15804.

Verification

Verification of the Environmental Product Declaration is documented in accordance with the "ift-Richtlinie zur Erstellung von Typ III Umweltproduktdeklarationen" (Guidance on preparing Type III Environmental Product Declarations) in accordance with the requirements set out in DIN EN ISO 14025.

This declaration is based on the PCR documents "PCR Part A" PCR-A-1.0:2023 and "Surface temperature control" PCR-FT-1.0:2023.

The European standard EN 15804 serves as the core PCR ^{a)}
Independent external verification of the Declaration and statement according to EN ISO 14025:2010
Independent third party verifier: ^{b)} Eric Brehm
^{a)} Product category rules ^{b)} Optional for business-to-business communication Mandatory for business-to-consumer communication (see EN ISO 14025:2010, 9.4)

Revisions of this document

No.	Date	Note	Person in charge	Verifier
1	21.02.2025	External Verification	Dumproff	Brehm
2	27.02.2025	Reference to VOC measurement added on page 6.	Dumproff	-

8 Bibliography

1. **Research project.** "EPDs für transparente Bauelemente" (EPDs for transparent building components) - Final report. Rosenheim: ift Rosenheim GmbH, 2011. SF-10.08.18.7-09.21/II 3-F20-09-1-067.
2. **ift-Guideline NA-01/4.** Allgemeiner Leitfaden zur Erstellung von Typ III Umweltproduktdeklarationen (Guidance on preparing Type III Environmental Product Declarations). Rosenheim: ift Rosenheim GmbH, 2023.
3. **ift Rosenheim GmbH.** Conditions and Guidance for the Use of ift-Test Documents. Rosenheim: s.n., 2016.
- 4 **DIN EN ISO 12457- Parts 1-4.** Characterization of waste - Leaching; Compliance test for leaching of granular waste materials and sludges - Part 1-4. Berlin: Beuth Verlag GmbH, 2003.
5. **IKP Universität Stuttgart and PE Europe GmbH.** GaBi 10: Software and database for LCA. Leinfelden-Echterdingen: s.n., 2020.
6. **Chemikaliengesetz – ChemG (Chemicals Act).** Gesetz zum Schutz vor gefährlichen Stoffen - Unterteilt sich in Chemikaliengesetz und eine Reihe von Verordnungen; hier relevant (Law on protection against hazardous substances - Subdivided into Chemicals Law and a series of regulations; of relevance here): Gesetz zum Schutz vor gefährlichen Stoffen (Law on protection against hazardous substances). Berlin: BGBl. (Federal Gazette) I S. 1146, 2017.
7. **Bundesimmissionsschutzgesetz – BImSchG (Federal Immission Law).** Gesetz zum Schutz vor schädlichen Umwelteinwirkungen durch Luftverunreinigungen, Geräusche, Erschütterungen und ähnlichen Vorgängen (Law on harmful environmental impacts by air contamination, noise, vibrations and similar processes). Berlin: BGBl. (Federal Gazette) I S. 3830, 2017.
8. **ISO 21930:2017-07.** Sustainability in building construction - Environmental declaration of building products. Berlin: Beuth Verlag, 2017.
9. **ISO 15686-1:2011-05.** Buildings and constructed assets - Service life planning - Part 1: General principles and framework. s.l. : Beuth Verlag GmbH, 2011.
10. **ISO 15686-2:2012-05.** Buildings and constructed assets - Service life planning - Part 2: Service life prediction procedures. s.l. : Beuth Verlag GmbH, 2012.
11. **ISO 15686-7:2017-04.** Buildings and constructed assets - Service life planning - Part 7: Performance evaluation for feedback of service life data from practice. s.l. : Beuth Verlag GmbH, 2017.
12. **ISO 15686-8:2008-06.** Buildings and constructed assets - Service life planning - Part 8: Reference service life and service-life estimation. s.l. : Beuth Verlag GmbH, 2008.
13. **DIN EN ISO 16000 Parts 6, 9, 11.** Indoor air: Determination of the emission of volatile organic compounds from building products and furnishing. Berlin: Beuth Verlag GmbH, 2012, 2008, 2006.
14. **DIN EN 13501-1:2010-01.** Fire classification of construction products and building elements - Part 1: Classification using data from reaction to fire tests. Berlin: Beuth Verlag GmbH, 2010.
15. **Bundesministerium für Umwelt, Naturschutz, Bau und Reaktorsicherheit (Federal Ministry for the Environment, Nature Conservation and Nuclear Safety).** Leitfaden Nachhaltiges Bauen (Guidance on Sustainable Building). Berlin: s.n., 2016.
16. **DIN EN 15804:2012+A2:2019+AC:2021.** Sustainability of construction works - Environmental product declarations - Core rules for the product category of construction products. Berlin: Beuth Verlag GmbH, 2022.
17. **EN 17672:2022.** Sustainability of construction works - Environmental product declarations - Horizontal rules for business-to-consumer communication. Berlin: Beuth Verlag GmbH, 2022.
18. **EN 15942:2012-01.** Sustainability of construction works - Environmental product declarations - Communication format business-to-business. Berlin: Beuth Verlag GmbH, 2012.
19. **OENORM S 5200:2009-04-01.** Radioactivity in construction materials. Berlin: Beuth Verlag GmbH, 2009.
20. **EN ISO 14025:2011-10.** Environmental labels and declarations - Type III environmental declarations - Principles and procedures. Berlin: Beuth Verlag GmbH, 2011.
21. **DIN EN ISO 14044:2006-10.** Environmental management - Life cycle assessment - Requirements and guidelines. Berlin: Beuth Verlag GmbH, 2006.
22. **DIN EN ISO 14040:2018-05.** Environmental management - Life cycle assessment - Principles and framework. Berlin: Beuth Verlag GmbH, 2018.
23. **Chemikalien-Verbotsverordnung - ChemVerbotsV. (Chemicals Prohibition Regulation).** Verordnung über Verbote und Beschränkungen des Inverkehrbringens gefährlicher Stoffe, Zubereitungen und Erzeugnisse Chemikaliengesetz (Regulation on bans and restrictions of the placing on the market of hazardous substances, formulations and products covered by the Chemicals Law). Berlin: BGBl. (Federal Gazette) I S. 1328, 2017.
24. **Gefahrstoffverordnung – GefStoffV (Hazardous substances regulation).** Verordnung zum Schutz vor Gefahrstoffen (Regulation on protection against hazardous substances). Berlin: BGBl. (Federal Gazette) I S. 3758, 2017.
25. **Eyerer, P. und Reinhardt, H.-W.** Ökologische Bilanzierung von Baustoffen und Gebäuden - Wege zu einer ganzheitlichen Bilanzierung. Basel: Birkhäuser Verlag, 2000.
26. **Klöpffer, W und Grahl, B.** Ökobilanzen (LCA). Weinheim: Wiley-VCH-Verlag, 2009.
27. **PCR Part A.** Product category rules for environmental product declarations as per EN ISO 14025 and EN 15804. Rosenheim: ift Rosenheim, 2023.
28. **PCR Part B - Drainage technology.** Product category rules for environmental product declarations as per EN ISO 14025 and EN 15804. Rosenheim: ift Rosenheim GmbH, 2023.

9 Annex

Description of life cycle scenarios for Waste water systems

Product stage			Con- struction process stage		Use stage*							End-of-life stage				Benefits and loads beyond the system boundaries
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Raw material supply	Transport	Manufacture	Transport	Construction/installation process	Use	Maintenance	Repair	Replacement	Modification/refreshment	Operational energy use	Operational water use	Deconstruction/demolition	Transport	Waste processing	Disposal	Re-use Recovery Recycling potential
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

* For declared B-modules, the calculation of the results is performed taking into account the specified RSL related to one year

Table 16 Overview of applied life cycle stages

The scenarios were calculated taking into account the defined RSL (see Chapter 4 Use stage).

The scenarios were based on information provided by the manufacturer. The scenarios were furthermore based on the research project “EPDs for transparent building components. (1)

Note: The standard scenarios selected are presented in bold type. They were also used for calculating the indicators in the summary table.

- ✓ Included in the LCA
- Not included in the LCA

Product group: Drainage technology

A4 Transport

No.	Scenario	Description
A4.1	National	Transport mix 35-53% capacity used , approx. 600 km
A4.2	International/EU country	Transport mix 35-53% capacity used ¹ , approx. 2,000 km
A4.3	International/Non-EU	Transport mix 35-53% capacity used ¹ , approx. 19,000 km

¹ Capacity used: utilized loading capacity of the truck

The transport distances shown represent a transport average with the following transport mix. The scenarios include the return transport, if applicable.

Shipping method	Network fleet structure	Shares in %		
		A4.1	A4.2	A4.3
Parcel service provider (CEP - Courier-Express- Parcel service)	Van 7.5 – 16 t (Euro 6), diesel, 35% capacity used	2	0	0.5
Forwarding agency and own truck fleet	> 32 t truck/semitrailer (Euro 6), diesel, 53% capacity utilization	98	90	85
Air freights	Cargo and passenger aircrafts, kerosene	0	9	11
Seagoing vessels/containers	Seagoing/container vessels to receiving port, heavy oil	0	1	3.5

A4 Transport to the construction site	Transport weight [kg] per declared unit	Volume-capacity utilisation factor ²
PG1 - Backwater valves	6.783	<1
PG2 - Bathroom and balcony drains	2.077	
PG3 - Floor and cellar drains	3.826	
PG4 - Shower channels	4.438	
PG5 - Grates for shower channels	2.726	
PG6 - Accessories	2.279	
PG7 - Drains for bathtubs and shower trays	27.147	
PG8 - Drains for sinks, spouts and appliances	0.884	
PG9 - Drains for urinals	0.672	
PG10 - Drains for washbasins and bidets	3.504	
PG11 - Backwater valves	1.758	

² Volume utilization factor:

- = 1 Product fills the packaging completely (without air inclusion)
- < 1 Packaging contains unused volume (e.g. air, filling material)
- > 1 Product is packed in compressed form

A4 Transport to the construction site	Unit	A4.1	A4.2	A4.3
Core indicators				
GWP-t	kg CO ₂ eq.	6.27E-05	3.33E-04	2.81E-03
GWP-f	kg CO ₂ eq.	6.26E-05	3.33E-04	2.81E-03
GWP-b	kg CO ₂ eq.	2.18E-08	8.84E-08	7.09E-07
GWP-l	kg CO ₂ eq.	3.21E-08	1.06E-07	7.96E-07
ODP	kg CFC-11 eq.	1.06E-12	5.45E-12	4.58E-11
AP	mol H ⁺ eq.	1.71E-07	1.16E-06	1.03E-05
EP-fw	kg P eq.	5.24E-09	1.74E-08	1.31E-07
EP-m	kg N eq.	4.47E-08	3.98E-07	3.63E-06
EP-t	mol N eq.	2.45E-07	1.62E-06	1.42E-05
POCP	kg NMVOC-eq.	4.62E-07	4.21E-06	3.85E-05
ADPF	MJ	9.49E-04	4.78E-03	4.00E-02
ADPE	kg Sb eq.	1.81E-10	5.55E-10	4.09E-09
WDP	m ³ world eq. deprived	4.74E-06	1.66E-05	1.27E-04
Use of resources				
PERE	MJ	1.19E-05	4.13E-05	3.15E-04
PERM	MJ	0.00	0.00	0.00
PERT	MJ	1.19E-05	4.13E-05	3.15E-04
PENRE	MJ	9.49E-04	4.78E-03	4.00E-02
PENRM	MJ	0.00	0.00	0.00
PENRT	MJ	9.49E-04	4.78E-03	4.00E-02
SM	kg	3.98E-07	1.33E-06	1.00E-05
RSF	MJ	0.00	0.00	0.00
NRSF	MJ	0.00	0.00	0.00
FW	m ³	1.30E-07	4.63E-07	3.54E-06
Waste categories				
HWD	kg	6.96E-07	2.36E-06	1.78E-05
NHWD	kg	2.23E-05	7.40E-05	5.57E-04
RWD	kg	2.05E-10	7.39E-10	5.69E-09
Output material flows				
CRU	kg	0.00	0.00	0.00
MFR	kg	7.38E-09	2.84E-08	2.27E-07
MER	kg	4.16E-11	1.35E-10	1.02E-09
EE	MJ	1.68E-07	5.81E-07	4.41E-06
Additional environmental impact indicators				
PM	Disease incidence	6.08E-12	1.94E-11	1.43E-10
IRP	kBq U235 eq.	8.61E-07	3.15E-06	2.44E-05
ETP-fw	CTUe	5.01E-04	2.44E-03	2.02E-02
HTP-c	CTUh	2.78E-14	9.74E-14	7.45E-13
HTP-nc	CTUh	6.85E-13	3.61E-12	3.04E-11
SQP	dimensionless	9.33E-04	2.92E-03	2.12E-02

A5 Construction/installation process

No.	Scenario	Description
A5.1	Manual	According to the manufacturer the products are installed without additional lifting and auxiliary devices

In case of deviating consumption during installation/assembly of the products which forms part of the site management, they are covered at the building level.

For the most part, all systems are screwed on or plugged in. The installation does not result in any significant energy consumption. It is therefore not possible to make a quantitative statement.

The following quantities of waste materials are generated by packaging during installation:

Product group	Waste materials in kg	of which quantities collected for waste recycling (output materials) in kg
PG1 - Backwater valves	0.039	0
PG2 - Bathroom and balcony drains	0.387	0
PG3 - Floor and cellar drains	0.487	0
PG4 - Shower channels	2.275	0
PG5 - Grates for shower channels	1.007	0
PG6 - Accessories	0.363	0
PG7 - Drains for bathtubs and shower trays	0.681	0
PG8 - Drains for sinks, spouts and appliances	0.054	0
PG9 - Drains for urinals	0.066	0
PG10 - Drains for washbasins and bidets	0.211	0
PG11 - Backwater valves	2.277	0

Ancillary materials, consumables, use of water, use of other resources, material losses as well as direct emissions during installation are negligible.

It is assumed that the packaging material in the module construction / installation is sent to waste handling. Waste is only thermally recycled in line with the conservative approach. Benefits from A5 are specified in module D. Electricity replaces electricity mix (GLO, high voltage, market group); Thermal energy replaces thermal energy from natural gas (district or industrial, natural gas, RoW).

Transport to the recycling plants is included.

Since only one scenario is used, the results are shown in the relevant summary table.

B1 Use

It was conservatively assumed that all drainage technology product groups have contact with the indoor air. A VOC measurement was carried out on a representative mixed sample. [5]

The value was stored in Umberto and the results per unit for all product groups drainage technology are shown in the results under Chapter 6 for B1.

No.	Scenario	Description
B1	Normal intended use	<p>Release of substances into the indoor air.</p> <p>1.0 mg/m³ over 28 days; 13.04 mg/m³ per year corresponds to an annual emission of 1.304*10⁻⁵ kg TVOC</p>

Emissions to soil and water cannot be quantified. See EN 15804 Clause 5.4.4 and Clause 6.3.5.4.2. There are no horizontal standards with harmonized test methods.

Since this is a single scenario, the results are shown in the summary table. There, the results were related to one year, taking into account the reference service life.

B2 Cleaning, maintenance and repair (not relevant)

No cleaning or maintenance is required.

Ancillary materials, consumables, use of energy and water, material losses and waste as well as transport distances during cleaning are negligible.

Since only one scenario is used, the results are shown in the relevant summary table.

B3 Repair (not relevant)

No repair of the components of the building part is required.

For updated information refer to the respective instructions for assembly/installation, operation and maintenance from Viega GmbH & Co KG.

Ancillary materials, consumables, use of energy and water, waste, material losses and transport distances during repair are negligible.

Since only one scenario is used, the results are shown in the relevant summary table.

B4 Replacement (not relevant)

No.	Scenario	Description
B4	No replacement	According to the manufacturer, a replacement is not planned.

*Assumptions for evaluation of possible environmental impacts; statements made do not constitute any guaranty or warranty of performance.

The statements made in this EPD are only informative to allow evaluation at the building level.

It is assumed that no replacement will be necessary during the 50-year reference service life and the 50-year building service life.

For updated information refer to the respective instructions for assembly/installation, operation and maintenance from Viega GmbH & Co KG.

Ancillary materials, consumables, use of energy and water, material losses, waste as well as transport distances during replacement are negligible.

Since only one scenario is used, the results are shown in the relevant summary table.

B5 Modification/refurbishment (not relevant)

According to the manufacturer, the elements are not included in the improvement/modernisation activities for buildings.

For updated information refer to the respective instructions for assembly/installation, operation and maintenance from Viega GmbH & Co KG.

Ancillary materials, consumables, use of energy and water, material losses, waste as well as transport distances during replacement are negligible.

Since only one scenario is used, the results are shown in the relevant summary table.

B6 Operational energy use

No.	Scenario	Description
B6.1	No energy consumption	No energy consumed when used
B6.2	Energy consumption Normal use (backwater valves)	For the backwater valves, it was assumed that a Grundfix Plus Control has a power consumption of 5 W/h in standby mode, 12 W/h when in motion and 19 W/h when closed during backwater. The product runs a test once a day and, conservatively estimated, prevents a backflow 3 times a year. Therefore, an electricity consumption of 121 W/d is assumed, which results in 44.165 kWh/a
B6.3	Energy consumption Normal use (electronic mixing unit)	The power consumption of a Multiplex Trio E is assumed as the electronic mixing unit. This product has a maximum power consumption of 45 W and is in operation for a maximum of 15 minutes during the bathing process. With 60 bathing sessions per year, this results in an electricity consumption of 203.3 kWh/a

Energy consumption only occurs within the product groups 'backwater valves' and 'electronic mixing unit'. The 'worst case article' was identified and its energy consumption estimated for 1 year.

Since only one scenario is used, the results are shown for one year in the relevant summary table.

B7 Operational water use (not relevant)

No water consumption when used as intended. The water flow is not a component that determines the functionality of the products. Water consumption for cleaning is specified in module B2.1.

There is no transport consumption for water use in buildings. Ancillary materials, consumables, waste materials and other scenarios are negligible.

Since only one scenario is used, the results are shown in the relevant summary table.

C1 Deconstruction, demolition

No.	Scenario	Description
C1	Deconstruction	<p>As per manufacturer:</p> <p>99% deconstruction</p> <p>Further deconstruction rates are possible, give adequate reasons.</p>

No relevant inputs or outputs apply to the scenario selected. The energy consumed for deconstruction is negligible. Any arising consumption is marginal.

Since only one scenario is used, the results are shown in the relevant summary table.

In case of deviating consumption, the removal of the products forms part of the site management and is covered at the building level.

C2 Transport

No.	Scenario	Description
C2	Transport	<p>Transport to the collection point with >32 t truck (Euro 4), diesel, 29.96 t payload, 53% utilized, 50 km.</p>

Since only one scenario is used, the results are shown in the relevant summary table.

C3 Waste management

No.	Scenario	Description
C3	Current market situation	<p>Share for recirculation of materials:</p> <ul style="list-style-type: none"> • Stainless steel 98% in melt (UBA, 2017) • Remaining metals (SiBr, brass, gunmetal, nickel) 97% in melt (UBA, 2017) • Aluminium 95% in melt (GDA, 2018) • Plastics 60%, thermal recycling in waste incineration plant (Zukunft Bauen, 2017) • Plastics 40%, material recycling (Zukunft Bauen, 2017) • Electronics 87% mechanically recycled (based on waste electrical equipment, UBA, 2018) • Batteries / accumulators 84% (UBA, 2018) • Remainder to landfill

As the products are placed on the European market, the disposal scenario is based on average European data sets.

The table below describes the disposal processes and their percentage by mass/weight. The calculation is based on the above mentioned shares in percent related to the declared unit of the product system.



C3 Disposal	Unit	PG1	PG2	PG3	PG4	PG5	PG6	PG7	PG8	PG9	PG10	PG11
Collection process, collected separately	kg	6.33 E+00	1.57 E+00	1.54 E+00	3.39 E+00	2.34 E+00	1.58 E+00	2.69 E+01	1.23 E+00	4.55 E-01	1.83 E+00	1.74 E+00
Collection process, collected as mixed construction waste	kg	6.40 E-02	1.59 E-02	1.55 E-02	3.43 E-02	2.36 E-02	1.60 E-02	2.71 E-01	1.24 E-02	4.60 E-03	1.85 E-02	1.76 E-02
Recovery system, for re-use	kg	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	7.02 E-02	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Recovery system, for recycling	kg	3.35 E+00	7.11 E-01	6.87 E-01	1.70 E+00	0.00 E+00	9.47 E-01	1.10 E+01	3.04 E-01	1.83 E-01	5.66 E-01	1.48 E+00
Recovery system, for energy recovery	kg	2.85 E+00	8.59 E-01	7.29 E-01	1.68 E+00	2.27 E+00	6.22 E-01	1.58 E+01	1.11 E-01	2.72 E-01	4.81 E-02	1.79 E-01
Disposal	kg	7.64 E-01	4.12 E-03	1.19 E-01	1.24 E-02	0.00 E+00	1.30 E-02	9.15 E-02	8.15 E-01	6.53 E-05	1.22 E+00	3.77 E-01

Since this is a single scenario, the results are shown in the summary table.

C4 Disposal

No.	Scenario	Description
C4	Disposal	The non-measurable quantities and losses of the reuse/recycling chain (C1 and C3) are modelled as “inert waste (Europe without Switzerland, treatment of inert waste, sanitary landfill.”

The consumption in scenario C4 results from physical pre-treatment, waste recycling and management of the disposal site. The benefits obtained here from the substitution of primary material production are allocated to Module D, e.g. electricity and heat from waste incineration.

Since only one scenario is used, the results are shown in the relevant summary table.

D Benefits and loads from beyond the system boundaries

No.	Scenario	Description
D	Recycling potential	<p>Stainless steel scrap from A5 and C3 excluding the scrap used in A3 replaces 100% of chrome steel (RoW); Silicon bronze scrap from A5 and C3 excluding the scrap used in A3 replaces 100% of bronze (RoW); Gunmetal scrap from C3 excluding the scrap used in A3 replaces 100% of gunmetal; Brass scrap from C3 excluding the scrap used in A3 replaces 100% of brass; Aluminium scrap from C3 excluding the scrap used in A3 replaces 100% of aluminium, sheet metal rolls (RoW); Nickel scrap from C3 excluding the scrap used in A3 replaces 100% of nickel (GLO); Electronics scrap from C3 excluding the scrap used in A3 replaces 100% of electronic components (GLO); Plastic recyclate from C3 excluding the plastics used in A3 replaces 60% of polyethylene, high density, RoW; Battery scrap from C3 replaces 84% of battery cell, Li-ion, LFP (GLO) Benefits from incineration plant: Electricity replaces electricity mix (GLO); Thermal energy replaces thermal energy from natural gas (RoW).</p>

The values in module D result from recycling of the packaging material in module A5 and from deconstruction at the end of service life.

Since this is a single scenario, the results are shown in the summary table.

Annex B**Backwater valves**

Material no.	System	Material short text ENG	Weight [g]	Model no.	Dimensions	Item no.	Conversion factor
492123	Backwater valves	Optifix 3	2,786.50	4989	70 X 100	462963	0.4330
492733	Backwater valves	Height compensation piece	642.00	4992	340	489083	0.0998
496743	Backwater valves	Backflow prevention	5,490.00	49873	150	310332	0.8531
497003	Backwater valves	Backflow prevention	4,080.00	49873	100	305376	0.6340
497013	Backwater valves	Backflow prevention	4,205.00	49873	125	305383	0.6535
497023	Backwater valves	Backflow prevention	3,703.00	49871	100	305390	0.5754
498673	Backwater valves	Height compensation piece	437.00	4992	150	469979	0.0679
499743	Backwater valves	Backflow prevention	5,203.00	49872	150	310325	0.8085
499843	Backwater valves	Backflow prevention	3,850.00	49872	100	305567	0.5983
499933	Backwater valves	Backflow prevention	3,880.00	49872	125	305574	0.6030
527683	Backwater valves	Grundfix Plus	8,870.00	498741	DN100	667788	1.3784
527693	Backwater valves	Grundfix Plus	8,900.00	498741	DN125	667795	1.3831
527703	Backwater valves	Grundfix Plus	10,450.00	498741	DN150	667801	1.6239
765112	Backwater valves	Sperrfix	558.00	49951	DN40	607128	0.0867
765122	Backwater valves	Sperrfix	542.00	49951	DN50	607135	0.0842
765132	Backwater valves	Sperrfix	450.00	49952	DN40	607142	0.0699
765142	Backwater valves	Sperrfix	439.00	49952	DN50	607159	0.0682
765152	Backwater valves	Sperrfix	421.00	49953	DN50	607166	0.0654

Bathroom and balcony drains

Material no.	System	Material short text ENG	Weight [g]	Model no.	Dimensions	Item no.	Conversion factor
406083	Bathroom and balcony drains	Base body	500	494421	100	626976	0.2528
406093	Bathroom and balcony drains	Balcony/patio drain	660	49442	100	626983	0.3337
406123	Bathroom and balcony drains	Balcony/patio drain	566	49462	100	626990	0.2861
471113	Bathroom and balcony drains	Bathroom drain	588	49362	DN50	583217	0.2973
471123	Bathroom and balcony drains	Bathroom drain	605	49363	-	583224	0.3059
471133	Bathroom and balcony drains	Bathroom drain	744	49364	-	583231	0.3761
471143	Bathroom and balcony drains	Bathroom drain	605	49362	DN50	583248	0.3059
471413	Bathroom and balcony drains	Bathroom drain	620	49363	DN50	617271	0.3134
471423	Bathroom and balcony drains	Bathroom drain	836	49364	DN50	617288	0.4226
471803	Bathroom and balcony drains	Bathroom drain	755	49116	40 X 50	556884	0.3817
472163	Bathroom and balcony drains	Bathroom drain	510	49214	40 X 50	556907	0.2578
472173	Bathroom and balcony drains	Bathroom drain	646	4926	50	556914	0.3266
472183	Bathroom and balcony drains	Bathroom drain	760	49216	40 X 50	556921	0.3842
472193	Bathroom and balcony drains	Bathroom drain	700	492176	DN 50	556938	0.3539
472203	Bathroom and balcony drains	Bathroom drain	516	49213	DN50	556945	0.2609
472213	Bathroom and balcony drains	Drain set	820	4927	50/40 X 100	557058	0.4146
472223	Bathroom and balcony drains	Drain	750	49271	DN50	557065	0.3792
472413	Bathroom and balcony drains	Bathroom drain R120	1130	492620	DN50	491642	0.5713
472453	Bathroom and balcony drains	Base body	486	49265	50	470937	0.2457
472703	Bathroom and balcony drains	Base body	570	492165	40 X 50	284619	0.2882
472713	Bathroom and balcony drains	Base body	552	492166	40 x 70	284626	0.2791
472803	Bathroom and balcony drains	Base body	500	492175	70	284657	0.2528
473423	Bathroom and balcony drains	Bathroom drain	550	49351	40 X 50	557119	0.2781

473433	Bathroom and balcony drains	Bathroom drain	555	49353	40 X 50	557126	0.2806
473443	Bathroom and balcony drains	Bathroom drain	540	49359	40 X 50	557133	0.2730
473533	Bathroom and balcony drains	Bathroom drain	922	4936	50	557157	0.4661
473543	Bathroom and balcony drains	Bathroom drain	711	49352	40 X 50	557140	0.3595
473913	Bathroom and balcony drains	Bathroom drain	480	4938	-	565695	0.2427
473923	Bathroom and balcony drains	Bathroom drain	656	4939	-	565701	0.3316
488503	Bathroom and balcony drains	Bathroom drain	1794	49381	100	571665	0.9070
488513	Bathroom and balcony drains	Bathroom drain	1970	49381	150	571672	0.9960
488523	Bathroom and balcony drains	Bathroom drain	1672	49391	100	571689	0.8453
488663	Bathroom and balcony drains	Bathroom drain	2232	49382	100	571719	1.1284
490103	Bathroom and balcony drains	Bathroom drain	742	49361	50	467395	0.3751
490963	Bathroom and balcony drains	Base body	380	49356	50	485412	0.1921
493873	Bathroom and balcony drains	Base body	450	494321	50	295929	0.2275
494063	Bathroom and balcony drains	Base body	460	494421	50	295936	0.2326
494283	Bathroom and balcony drains	Balcony/patio drain	164.5	49415	50	125936	0.0832
494313	Bathroom and balcony drains	Balcony/patio drain	191.9	49415	70	144319	0.0970
494353	Bathroom and balcony drains	Balcony/patio drain	174.1	49425	50	125158	0.0880
494373	Bathroom and balcony drains	Balcony/patio drain	201	49425	70	139490	0.1016
494443	Bathroom and balcony drains	Balcony/patio drain	616	49432	50	557072	0.3114
494453	Bathroom and balcony drains	Balcony/patio drain	638	49432	70	557089	0.3225
494463	Bathroom and balcony drains	Balcony/patio drain	622	49442	50	557096	0.3145
494483	Bathroom and balcony drains	Balcony/patio drain	645	49442	70	557102	0.3261
494553	Bathroom and balcony drains	Base body	480	494321	70	557263	0.2427
494583	Bathroom and balcony drains	Base body	488	494421	70	557270	0.2467
494703	Bathroom and balcony drains	Balcony/patio drain	349	49452	50	289379	0.1764
494713	Bathroom and balcony drains	Balcony/patio drain	540	49452	70	289386	0.2730

494803	Bathroom and balcony drains	Balcony/patio drain	526	49462	50	289393	0.2659
494813	Bathroom and balcony drains	Balcony/patio drain	550	49462	70	289409	0.2781
566863	Bathroom and balcony drains	Bathroom drain	550	49351PL	40 X 50	703226	0.2781
616921	Bathroom and balcony drains	Rainwater siphon	543	4970	100	586744	0.2745
631003	Bathroom and balcony drains	Bathroom drain	878	491410	DN50	669195	0.4439
631013	Bathroom and balcony drains	Floor drain	940	491411	DN50	669218	0.4752
631023	Bathroom and balcony drains	Bathroom drain	895	491410	DN50	669201	0.4525
631033	Bathroom and balcony drains	Floor drain	1094	491411	DN50	669225	0.5531
631043	Bathroom and balcony drains	Base body	1818	49142	DN50	669232	0.9191
631053	Bathroom and balcony drains	Bathroom drain	1878	491420	DN50	669249	0.9494
631063	Bathroom and balcony drains	Floor drain	2004	491421	DN50	669263	1.0131
631073	Bathroom and balcony drains	Bathroom drain	1906	491420	DN50	669256	0.9636
631083	Bathroom and balcony drains	Floor drain	2120	491421	DN50	669270	1.0718
632413	Bathroom and balcony drains	Bathroom drain	776	49273	DN50	661762	0.3923
645833	Bathroom and balcony drains	Bathroom drain	616	498063	DN40/50	687687	0.3114
645843	Bathroom and balcony drains	Bathroom drain	778	498060	DN40/50	687694	0.3933
645853	Bathroom and balcony drains	Bathroom drain	794	498061	DN40/50	687700	0.4014

Floor and cellar drains

Material no.	System	Material short text ENG	Weight [g]	Model no.	Dimensions	Item no.	Conversion factor
491263	Floor and cellar drains	Pipe partitioning-R120	673	49235	DN50	491673	0.3302
494723	Floor and cellar drains	Floor drain	990	49551	70	557164	0.4858
494733	Floor and cellar drains	Floor drain	1112	49551	100	557171	0.5456
494743	Floor and cellar drains	Floor drain	1010	49511	50	557188	0.4956
494753	Floor and cellar drains	Floor drain	990	49511	70	557195	0.4858
494763	Floor and cellar drains	Floor drain	1100	49511	100	557201	0.5397
495233	Floor and cellar drains	Floor drain R120	1505	495120	DN50	491659	0.7385
495243	Floor and cellar drains	Floor drain R120	1608	495120	DN70	491666	0.7890
496103	Floor and cellar drains	Base body	645	495115	50	284947	0.3165
496113	Floor and cellar drains	Base body	644	495115	70	284954	0.3160
496123	Floor and cellar drains	Base body	722	495115	100	284961	0.3543
496211	Floor and cellar drains	Cellar drain	720	4956	100	106003	0.3533
496473	Floor and cellar drains	Base body	810	495515	100	285043	0.3974
496483	Floor and cellar drains	Base body	694	495515	70	285050	0.3405
496533	Floor and cellar drains	Base body	748	495525	100	289454	0.3670
496543	Floor and cellar drains	Base body	644	495525	70	289461	0.3160
546033	Floor and cellar drains	Plug-in drain	425	49371	DN100	660345	0.2085
546043	Floor and cellar drains	Plug-in drain	375	49372	DN100	660758	0.1840
546053	Floor and cellar drains	Plug-in drain	410	4937	100	663780	0.2012

Shower channels

Material no.	System	Material short text ENG	Weight [g]	Model no.	Dimensions	Item no.	Conversion factor
416901	Shower channels	Corner drain	3,348.00	497280	DN 40/50	592363	0.5871
418483	Shower channels	Base body	330.00	498065	DN 40/50	690397	0.0579
472031	Shower channels	Shower channel	2,988.00	498110	800	794460	0.5239
472041	Shower channels	Shower channel	3,470.00	498110	1000	794477	0.6085
472051	Shower channels	Shower channel	3,868.00	498110	1200	794484	0.6782
472251	Shower channels	Shower channel	3,218.00	498111	800	794491	0.5643
472261	Shower channels	Shower channel	3,317.00	498111	1000	794507	0.5816
472291	Shower channels	Shower channel	3,410.00	498111	1200	794514	0.5979
616392	Shower channels	Shower channel	4,130.00	98945FQ	750	718220	0.7242
616402	Shower channels	Shower channel	4,335.00	98945FQ	900	718237	0.7601
616482	Shower channels	Shower channel	4,080.00	98945FQ	800	759353	0.7154
622522	Shower channels	Corner drain	3,250.00	497282	DN 40/50	627010	0.5699
738763	Shower channels	Shower channel	4,050.00	496520	300 - 1200	704353	0.7102
738773	Shower channels	Shower channel	4,050.00	496521	300 - 1200	704360	0.7102
744611	Shower channels	Shower channel	3,182.00	496610	300 - 1200	721671	0.5580
744811	Shower channels	Shower channel	4,290.00	496710	300 - 1200	736552	0.7522
745401	Shower channels	Shower channel	4,135.00	496810	300 - 1200	736736	0.7251

745751	Shower channels	Base body	2,362.00	498210	750	736965	0.4142
745761	Shower channels	Base body	2,010.00	498210	800	736972	0.3524
745771	Shower channels	Base body	2,270.00	498210	900	736989	0.3980
745781	Shower channels	Base body	2,525.00	498210	1000	736996	0.4427
745791	Shower channels	Base body	2,775.00	498210	1200	737009	0.4866
745801	Shower channels	Base body	2,195.00	498220	750	737016	0.3849
745811	Shower channels	Base body	2,272.00	498220	800	737023	0.3984
745821	Shower channels	Base body	3,050.00	498220	900	737030	0.5348
745831	Shower channels	Base body	2,750.00	498220	1000	737047	0.4822
745841	Shower channels	Base body	3,130.00	498220	1200	737054	0.5488
746411	Shower channels	Shower channel	2,540.00	496619	300 - 1200	761967	0.4454
748101	Shower channels	Shower channel	4,540.00	498275	750	763978	0.7961
748111	Shower channels	Shower channel	6,200.00	498275	800	763985	1.0871
748121	Shower channels	Shower channel	5,050.00	498275	900	763992	0.8855
748131	Shower channels	Shower channel	6,105.00	498276	750	764005	1.0705
748141	Shower channels	Shower channel	4,820.00	498276	800	764012	0.8452
748151	Shower channels	Shower channel	5,050.00	498276	900	764029	0.8855
755701	Shower channels	Shower channel	4,480.00	498310	750	753153	0.7856
755711	Shower channels	Shower channel	4,520.00	498310	800	753160	0.7926
755721	Shower channels	Shower channel	4,886.00	498310	900	753177	0.8567

755731	Shower channels	Shower channel	5,120.00	498310	1000	753184	0.8978
755741	Shower channels	Shower channel	5,780.00	498310	1200	753191	1.0135
756001	Shower channels	Shower channel	4,480.00	498320	750	753207	0.7856
756011	Shower channels	Shower channel	4,516.00	498320	800	753214	0.7919
756021	Shower channels	Shower channel	4,886.00	498320	900	753221	0.8567
756031	Shower channels	Shower channel	5,123.00	498320	1000	753238	0.8983
756041	Shower channels	Shower channel	6,040.00	498320	1200	753245	1.0591
757961	Shower channels	Shower channel base body	3,307.00	496510	300 - 1200	686277	0.5799

Material no.	System	Material short text ENG	Weight [g]	Model no.	Dimensions	Item no.	Conversion factor
416922	Grates for shower channels	Grate	332	497230	300 EA1	592387	0.0985
416942	Grates for shower channels	Grate	325	497240	300 EA2	592400	0.0965
470452	Grates for shower channels	Inlet piece	124	498150	-	794095	0.0368
470462	Grates for shower channels	Inlet piece	122	498160	-	794101	0.0362
470472	Grates for shower channels	Profile	1514	498130	800	794118	0.4494
470482	Grates for shower channels	Profile	1842	498131	1000	794125	0.5467
470492	Grates for shower channels	Profile	2268	498132	1200	794132	0.6732
470502	Grates for shower channels	Inlet piece	140	498150	-	794002	0.0416
470529	Grates for shower channels	Inlet piece	142	498150	-	794026	0.0421
470549	Grates for shower channels	Inlet piece	140	498150	-	794040	0.0416
470553	Grates for shower channels	Inlet piece	138	498150	-	794156	0.0410
470562	Grates for shower channels	Inlet piece	140	498160	-	794163	0.0416
470589	Grates for shower channels	Inlet piece	142	498160	-	794187	0.0421
470609	Grates for shower channels	Inlet piece	142	498160	-	794200	0.0421
470613	Grates for shower channels	Inlet piece	138	498160	-	794217	0.0410
470622	Grates for shower channels	Profile	1614	498130	800	794224	0.4791
470649	Grates for shower channels	Profile	1610	498130	800	794248	0.4779

470669	Grates for shower channels	Profile	1614	498130	800	794262	0.4791
470673	Grates for shower channels	Profile	1612	498130	800	794279	0.4785
470732	Grates for shower channels	Profile	1932	498131	1000	794286	0.5735
470759	Grates for shower channels	Profile	1936	498131	1000	794309	0.5747
470779	Grates for shower channels	Profile	1932	498131	1000	794323	0.5735
470783	Grates for shower channels	Profile	1932	498131	1000	794330	0.5735
470792	Grates for shower channels	Profile	2356	498132	1200	794347	0.6993
470819	Grates for shower channels	Profile	2342	498132	1200	794361	0.6952
470839	Grates for shower channels	Profile	2362	498132	1200	794385	0.7011
470843	Grates for shower channels	Profile	2360	498132	1200	794392	0.7005
620972	Grates for shower channels	Grate	235	497410	165 X 20 EA3	605414	0.0698
621062	Grates for shower channels	Grate	321	497420	165 X 20	605704	0.0953
744822	Grates for shower channels	Bar grate	732.5	496730	300-1200	736569	0.2174
744833	Grates for shower channels	Bar grate	730	496731	300-1200	736576	0.2167
744841	Grates for shower channels	Bar grate	743	496732	300-1200	736583	0.2205
744852	Grates for shower channels	Bar grate	740	496733	300-1200	736590	0.2196
745381	Grates for shower channels	Accessory set	445	498296	-	745400	0.1321
746251	Grates for shower channels	Grate	1220	498250	VISIGN ER10, 750	737153	0.3621
746261	Grates for shower channels	Grate	1280	498250	VISIGN ER10, 800	737160	0.3799
746271	Grates for shower channels	Grate	1345	498250	VISIGN ER10, 900	737177	0.3992

746281	Grates for shower channels	Grate	1422	498250	VISIGN ER10, 1000	737184	0.4221
746291	Grates for shower channels	Grate	1702	498250	VISIGN ER10, 1200	737191	0.5052
746301	Grates for shower channels	Grate	1208	498251	VISIGN ER10, 750	737207	0.3586
746311	Grates for shower channels	Grate	1280	498251	VISIGN ER10, 800	737214	0.3799
746321	Grates for shower channels	Grate	1367	498251	VISIGN ER10, 900	737221	0.4058
746331	Grates for shower channels	Grate	1456	498251	VISIGN ER10, 1000	737238	0.4322
746341	Grates for shower channels	Grate	1704	498251	VISIGN ER10, 1200	737245	0.5058
746551	Grates for shower channels	Grate	1290	498270	VISIGN ER13, 750	737351	0.3829
746561	Grates for shower channels	Grate	1320	498270	VISIGN ER13, 800	737368	0.3918
746571	Grates for shower channels	Grate	1402	498270	VISIGN ER13, 900	737375	0.4161
746581	Grates for shower channels	Grate	1486	498270	VISIGN ER13, 1000	737382	0.4411
746591	Grates for shower channels	Grate	1775	498270	VISIGN ER13, 1200	737399	0.5269
747401	Grates for shower channels	Grate	1230	498271	VISIGN ER12, 750	737405	0.3651
747411	Grates for shower channels	Grate	1235	498271	VISIGN ER12, 800	737412	0.3666
747421	Grates for shower channels	Grate	1310	498271	VISIGN ER12, 900	737429	0.3888
747431	Grates for shower channels	Grate	1395	498271	VISIGN ER12, 1000	737436	0.4141
747441	Grates for shower channels	Grate	1685	498271	VISIGN ER12, 1200	737443	0.5001
757972	Grates for shower channels	Bar grate	745	496530	VISIGNSR1-300-1200	686284	0.2211
757983	Grates for shower channels	Bar grate	745	496531	VISIGNSR2-300-1200	686291	0.2211
762461	Grates for shower channels	Bar grate	194	496562	SR3-200	711856	0.0576

762462	Grates for shower channels	Bar grate	170	496563	SR4-200	711863	0.0505
762463	Grates for shower channels	Bar grate	186	496561	SR2-200	711849	0.0552
762464	Grates for shower channels	Bar grate	185	496560	SR1-200	711832	0.0549
762521	Grates for shower channels	Bar grate	735	496532	SR3-300-1200	711870	0.2182
762522	Grates for shower channels	Bar grate	735	496533	SR4-300-1200	711887	0.2182

Accessories

Material no.	System	Material short text ENG	Weight [g]	Model no.	Dimensions	Item no.	Conversion factor
406671	Accessories	Frame	119	49348	100 X 100	627065	0.0607
406681	Accessories	Frame	332.9	49229	150 X 150	627072	0.1698
470003	Accessories	Cap	154	49341	100 X 100	555177	0.0785
470013	Accessories	Cap	163	49341	100 X 100	555184	0.0831
470023	Accessories	Cap	187.3	49342	100 X 100	555191	0.0955
470033	Accessories	Cap	187.4	49342	100 X 100	555207	0.0956
470043	Accessories	Cap	368	49343	100 X 100	555214	0.1877
470053	Accessories	Cap	342	49344	150 X 150	555221	0.1744
470063	Accessories	Cap	345.2	49344	150 X 150	555238	0.1760
470073	Accessories	Cap	477.1	49345	150 X 150	555245	0.2433
470083	Accessories	Cap	482	49345	150 X 150	555450	0.2458
470093	Accessories	Cap	960	49346	150 X 150	555467	0.4895
470123	Accessories	Cap	365	49225	150 X 150	555498	0.1861
470133	Accessories	Cap	367	49225	150 X 150	555504	0.1871
470143	Accessories	Cap	488.1	49226	150 X 150	555511	0.2489
470153	Accessories	Cap	491	49226	150 X 150	555528	0.2504
470163	Accessories	Cap	899.4	49227	150 X 150	555535	0.4586

470353	Accessories	Pipe	74	498187	DN40 X 43/50	794897	0.0377
470853	Accessories	Extension element	415	496190	100	571115	0.2116
470903	Accessories	Drain trap	876	498180	DN 40/50	794408	0.4467
470913	Accessories	Drain trap	916	498181	DN 40/50	794415	0.4671
470953	Accessories	Drain	310	498190	DN 50	797270	0.1581
471153	Accessories	Drain trap	108	49366	-	583255	0.0551
471163	Accessories	Odor barrier	41	49448	-	583262	0.0209
471272	Accessories	Capping	3.6	4911 351	40	118990	0.0018
471933	Accessories	Reducer	58.5	4919	50 X 40	110468	0.0298
472907	Accessories	Grate	65	49218	100 X 100	446086	0.0331
473003	Accessories	Extension element	376	4925	-	471057	0.1917
473103	Accessories	Extension element	595	4994	-	471064	0.3034
473301	Accessories	Grate	281.5	49331	100 X 100	534479	0.1435
473311	Accessories	Grate	654	49332	143 X 143	534486	0.3335
473321	Accessories	Grate	92	49333	94 X 94 X 5	554026	0.0469
473331	Accessories	Grate	96.4	49333	94 X 94 X 5 V	554033	0.0492
473341	Accessories	Grate	238	49334	143 X 143 X 5	554040	0.1214
473353	Accessories	Top frame	100	49122	150 X 150	534493	0.0510
473403	Accessories	Top frame	77.5	49222	100 X 100	534516	0.0395
473413	Accessories	Top frame	132.6	49224	150 X 150	534523	0.0676

473551	Accessories	Grate	237.5	49334	143X143X5 V	554859	0.1211
473561	Accessories	Grate	246	49335	143 X 143 X 5	554866	0.1254
473861	Accessories	Grate	242	49336	143 X 143	560751	0.1234
473871	Accessories	Grate	635	493361	143 X 143	560768	0.3238
473881	Accessories	Cap	492	49337	150 X 150	560775	0.2509
477881	Accessories	Cap	470	493431	100 X 100	648152	0.2397
478071	Accessories	Plate	360	493311	100 X 100	648176	0.1836
487171	Accessories	Inlet piece	34.3	49463	100	633868	0.0175
490251	Accessories	Top frame	104	49491	100 X 100	488987	0.0530
490261	Accessories	Top frame	227.4	49491	150 X 150	488994	0.1160
490661	Accessories	Top frame	261	49493	150 X 150	489038	0.1331
490851	Accessories	Extension element	1109	49941	150 X 150	489045	0.5655
491471	Accessories	Sealing sleeve	1060	494839	100	588342	0.5405
491481	Accessories	Sealing sleeve	830	494839	145	588656	0.4233
492733	Accessories	Height compensation piece	642	4992	340	489083	0.3274
494240	Accessories	Sealing set	1084	494831	-	287924	0.5528
494473	Accessories	Height compensation piece	110.5	4947	100	111496	0.0563
494563	Accessories	Gravel trap	71.25	49451 356	100	144012	0.0363
494630	Accessories	Clamping flange	225	494821	-	287900	0.1147
494663	Accessories	Extension element	450	49471	-	284817	0.2295

494851	Accessories	Grate Visign RS1	308	49281	100 X 100	492281	0.1571
494861	Accessories	Grate Visign RS2	300	49282	100 X 100	492298	0.1530
494871	Accessories	Grate Visign RS3	258.5	49283	100 X 100	492304	0.1318
494881	Accessories	Grate Visign RS4	271	49284	100 X 100	492311	0.1382
494901	Accessories	Grate Visign RS2	700	49292	150 X 150	492335	0.3570
494911	Accessories	Grate Visign RS3	597	49293	150 X 150	492342	0.3044
494921	Accessories	Grate Visign RS4	689	49294	150 X 150	492359	0.3514
498382	Accessories	Connection piece	75.61	4997	70	140175	0.0386
498392	Accessories	Connection piece	57.4	4997	50	130268	0.0293
498673	Accessories	Height compensation piece	437	4992	150	469979	0.2228
498920	Accessories	Clamping flange	438	49982	274	141714	0.2234
498931	Accessories	Sealing set	1265	49983	-	125530	0.6451
498983	Accessories	Height compensation piece	197	4996	-	112707	0.1005
499282	Accessories	Assembly group Adjustment tube	136	499505 876	40 X 250	109523	0.0694
499803	Accessories	Extension element	551	49961	-	285128	0.2810
559751	Accessories	Cap	191	49322	100	709112	0.0974
559761	Accessories	Cap	546	49323	100	709129	0.2784
617381	Accessories	Grate Visign RS11	307	49621	110	586423	0.1566
617391	Accessories	Grate Visign RS12	323	49622	110	586430	0.1647
617401	Accessories	Grate Visign RS13	275	49623	110	586447	0.1402

617461	Accessories	Top frame	100.1	4962	120	586416	0.0510
620663	Accessories	Elbow 45°	96.5	497398	DN 50	680626	0.0492
621762	Accessories	Grate	255	497610	100	617127	0.1300
621771	Accessories	Grate	250	497611	100	617141	0.1275
621802	Accessories	Grate	270	497630	100	617165	0.1377
621811	Accessories	Grate	265	497631	100	617189	0.1351
632561	Accessories	Sound decoupling	475	491490	500 X 350 X 3	790448	0.2422
632571	Accessories	Sound decoupling	660	491490	500 X 350 X 8	791650	0.3366
744621	Accessories	Connecting piece	580	496614	290 X 110	721688	0.2958
744631	Accessories	End cap	480	496616	275 X 110	721695	0.2448
744983	Accessories	Accessory set	105	496786	20	736613	0.0535
744991	Accessories	Accessory set	105	496786	20	736620	0.0535
745002	Accessories	Accessory set	105	496786	20	736637	0.0535
745421	Accessories	Mounting frame	1116	498245	750	745356	0.5691
745431	Accessories	Mounting frame	1170	498245	800	745363	0.5966
745441	Accessories	Mounting frame	1220	498245	900	745370	0.6221
745451	Accessories	Mounting frame	1258	498245	1000	745387	0.6415
745461	Accessories	Mounting frame	1350	498245	1200	745394	0.6884
746001	Accessories	Mounting frame	1160	498230	750	736804	0.5915
746011	Accessories	Mounting frame	1184	498230	800	736811	0.6038

746021	Accessories	Mounting frame	1176	498230	900	736828	0.5997
746031	Accessories	Mounting frame	1420	498230	1000	736835	0.7241
746041	Accessories	Mounting frame	1494	498230	1200	736842	0.7619
746421	Accessories	Profile	850	498284	-	761974	0.4335
748280	Accessories	Adapter	46	498274	40	789107	0.0235
748290	Accessories	Adapter	74	498274	50	789114	0.0377
749331	Accessories	Drain trap	350	498292	90	737573	0.1785
749341	Accessories	Drain trap	318	498293	70	737580	0.1622
749351	Accessories	Drain trap	344	498294	50	737597	0.1754
749453	Accessories	Reducer	82	498286	40/50	756062	0.0418
749510	Accessories	Adapter	24	498211	43/40 X 69	759155	0.0122
749790	Accessories	Drain	96	498283	40	766955	0.0490
758323	Accessories	Drain trap	34	496598	VARIO	827243	0.0173
758333	Accessories	Drain trap	24	496698	ADVANTIX	827359	0.0122
758503	Accessories	Drain	68	496579	80 X 50	769550	0.0347
759103	Accessories	Drain	550	49659KA	40/50	779559	0.2805
759121	Accessories	Strainer	4	49658KA	103.2 x 19.4	779573	0.0020
762231	Accessories	Connecting piece	226	496512	200	708917	0.1152
762241	Accessories	Connecting piece	670	496514	290 X 110	708924	0.3417
762251	Accessories	End cap	510	496516	275 X 110	708931	0.2601

762401	Accessories	Prefabricated kit	67	496551	-	711771	0.0342
762402	Accessories	Prefabricated kit	80	496551	-	711764	0.0408
762403	Accessories	Prefabricated kit	78	496551	-	711757	0.0398
762404	Accessories	Prefabricated kit	75	496551	-	711788	0.0382
762451	Accessories	Accessory set	75	496550	-	711818	0.0382
762452	Accessories	Accessory set	73	496550	-	711825	0.0372
762453	Accessories	Accessory set	76	496550	-	711801	0.0388
762454	Accessories	Accessory set	74	496550	-	711795	0.0377
762881	Accessories	Accessory set	49	496540	-	711894	0.0250
762891	Accessories	Accessory set	45	496544	-	711900	0.0229
762951	Accessories	Accessory set	71	496586	-	713072	0.0362
762962	Accessories	Accessory set	60	496586	-	713089	0.0306

Drains for bathtubs and shower trays

Material no.	System	Material short text ENG	Weight [g]	Model no.	Dimensions	Item no.	Conversion factor
527057	Drains for bathtubs and shower trays	Hood	14	54130	63	446109	0.00050
527367	Drains for bathtubs and shower trays	Universal valve Visign V1	283	54395	1 1/4 X 63	680701	0.01020
527857	Drains for bathtubs and shower trays	Simplex	675	98937KA	40/50 X 560	717438	0.02434
527867	Drains for bathtubs and shower trays	Simplex	735	98938KA	40/50 X 725	717445	0.02650
528087	Drains for bathtubs and shower trays	Equipment set	33	542021	70	765460	0.00119
544532	Drains for bathtubs and shower trays	Locking rosette	29.3	5693	32	120603	0.00106
544537	Drains for bathtubs and shower trays	Locking rosette	48.3	5693	32	112547	0.00174
558867	Drains for bathtubs and shower trays	Multiplex M5	805	98797BD	725 X 40/50 X 500	707552	0.02903
558872	Drains for bathtubs and shower trays	Multiplex M5	805	98798BD	725 X 40/50 X 500	707569	0.02903
559007	Drains for bathtubs and shower trays	Rotaplex R5	932	98812BD	40/50 X 725	707651	0.03361
559017	Drains for bathtubs and shower trays	Rotaplex R5	925	98813BD	40/50 X 725	707668	0.03335
559777	Drains for bathtubs and shower trays	Multiplex M7	1280	98832BD	230 X 310	709136	0.04616
559782	Drains for bathtubs and shower trays	Multiplex M7	1276	98833BD	230 X 310	709143	0.04601
559802	Drains for bathtubs and shower trays	Multiplex Trio MT7	1576	98835BD	230 X 310	709167	0.05683
561723	Drains for bathtubs and shower trays	Multiplex set	163	61620DI	M5	829254	0.00588
561733	Drains for bathtubs and shower trays	Multiplex Trio Set	183	61610DI	MT5	829261	0.00660
561743	Drains for bathtubs and shower trays	Equipment set	82	69600DI	112	829278	0.00296

565257	Drains for bathtubs and shower trays	Multiplex M5	800	98845RW	560 X 40/50	709884	0.02885
566772	Drains for bathtubs and shower trays	Drain and overflow set	364	638735PL	1 1/2 X 40/50	703127	0.01313
566872	Drains for bathtubs and shower trays	Drain trap	240	68224PL	1 1/2 X 40/50	703233	0.00865
566897	Drains for bathtubs and shower trays	Domoplex	280	6928PL	75 X 40/50	703257	0.01010
566957	Drains for bathtubs and shower trays	Functional unit	716	61631PL	40/50	703325	0.02582
566967	Drains for bathtubs and shower trays	Multiplex Set Visign M1	160	61620PL	-	703332	0.00577
570852	Drains for bathtubs and shower trays	Tempoplex function unit	402	98128	110	712440	0.01450
571032	Drains for bathtubs and shower trays	Tempoplex function unit	380	98882	40 X 60 X 110	712952	0.01370
571157	Drains for bathtubs and shower trays	Conversion kit	460	99577RW	85	712211	0.01659
571167	Drains for bathtubs and shower trays	Conversion kit	200	99739RW	85	712228	0.00721
571437	Drains for bathtubs and shower trays	Multiplex Trio MT5	1025	98864RW	40/50 X 560	712242	0.03696
571447	Drains for bathtubs and shower trays	Multiplex Trio MT5	1055	98865RW	40/50 X 725	712457	0.03804
600317	Drains for bathtubs and shower trays	MultiplexTrioSetVisignMT2	70	61610KA	-	576141	0.00252
600723	Drains for bathtubs and shower trays	Inlet cover	30	616191	VISIGN M2	575410	0.00108
600747	Drains for bathtubs and shower trays	Rotary rosette	37.5	616192	VISIGN MT2/RT2	575427	0.00135
600897	Drains for bathtubs and shower trays	Hood	131	69779	72	585334	0.00472
601036	Drains for bathtubs and shower trays	Valve cone Visign M1	74	616203	74	282806	0.00267
601052	Drains for bathtubs and shower trays	Valve cone Visign M1	70	616203	74	282776	0.00252
601167	Drains for bathtubs and shower trays	Rotary rosette	35	616202	VISIGN M1/R1	280949	0.00126
601467	Drains for bathtubs and shower trays	MultiplexTrioSetVisignMT1	149	616105	-	306847	0.00537

601687	Drains for bathtubs and shower trays	Inlet cover	30.5	616104	80 X 28	333287	0.00110
601787	Drains for bathtubs and shower trays	Rotary rosette	39	616103	VISIGN MT1 / RT1	309664	0.00141
602007	Drains for bathtubs and shower trays	Multiset Trio	392	61610	-	107222	0.01414
602187	Drains for bathtubs and shower trays	Multiplex function unit	685	61621GC	-	279431	0.02470
602407	Drains for bathtubs and shower trays	Multiplex Trio	952.5	6161216	1 1/2 X 40	309183	0.03435
602497	Drains for bathtubs and shower trays	Multiplex Set Visign M1	130	61620	-	103378	0.00469
602537	Drains for bathtubs and shower trays	Assembly group Valve cone	200.32	61620 852	74	152468	0.00722
602647	Drains for bathtubs and shower trays	Multiplex function unit	684	61621	40/50	103071	0.02466
603367	Drains for bathtubs and shower trays	Multiplex function unit	675	6162175	40	260668	0.02434
603427	Drains for bathtubs and shower trays	Multiplex function unit	690	61621OP	-	263836	0.02488
604117	Drains for bathtubs and shower trays	Rosette	45	616102	-	280956	0.00162
604607	Drains for bathtubs and shower trays	Multiplex Trio	1215	61612	40/50	111557	0.04381
605152	Drains for bathtubs and shower trays	Multiplex	837	616345	40/50	138561	0.03018
605267	Drains for bathtubs and shower trays	Functional unit	719	61631OP	40/50	464004	0.02593
605352	Drains for bathtubs and shower trays	Multiplex	653	61624	11/2X40	117634	0.02355
605372	Drains for bathtubs and shower trays	Multiplex	788	616245	40/50	101909	0.02841
605427	Drains for bathtubs and shower trays	Functional unit	728	61631	40/50	111069	0.02625
605452	Drains for bathtubs and shower trays	Multiplex	648	6162	1 1/2	114893	0.02337
605462	Drains for bathtubs and shower trays	Multiplex	704	6163	1 1/2	152079	0.02539
605477	Drains for bathtubs and shower trays	Multiplex function unit	850	61632	40/50/1070	308889	0.03065

605527	Drains for bathtubs and shower trays	Functional unit	833	61634	40/50	495206	0.03004
605962	Drains for bathtubs and shower trays	Multiplex	748	6162875	40	110031	0.02697
605994	Drains for bathtubs and shower trays	Conversion kit	367	616199	-	312213	0.01323
606047	Drains for bathtubs and shower trays	Capping	18	617750	75	741129	0.00065
606267	Drains for bathtubs and shower trays	Multiplex	765	6163875	40	364182	0.02759
606417	Drains for bathtubs and shower trays	Citaplex	715	617745	40/50	572853	0.02578
606427	Drains for bathtubs and shower trays	Varioplex	400	6977	40/50	572860	0.01442
606611	Drains for bathtubs and shower trays	Connection set	1406	616186	-	273583	0.05070
607007	Drains for bathtubs and shower trays	Simplex	565	61684PL	40/50	495121	0.02037
607027	Drains for bathtubs and shower trays	Simplex	561	61684BD	560 X 40/50	743352	0.02023
607067	Drains for bathtubs and shower trays	Rotary rosette	33	616212	VISIGN M5/R5	734602	0.00119
607102	Drains for bathtubs and shower trays	Simplex	523	6168	40	106447	0.01886
607137	Drains for bathtubs and shower trays	Equipment set	40	6161169	VISIGN MT5/RT5	734633	0.00144
607147	Drains for bathtubs and shower trays	Rosette	46	6161179	75	734640	0.00166
607157	Drains for bathtubs and shower trays	Valve cone	68.2	6168035	-	215392	0.00246
607197	Drains for bathtubs and shower trays	Rotary rosette	44.6	617108	VISIGN M9/MT9	734770	0.00161
607381	Drains for bathtubs and shower trays	UP pipe interrupter	510	616181	3 rd Apr	274528	0.01839
607567	Drains for bathtubs and shower trays	Simplex	568	616845	40/50	285357	0.02048
608107	Drains for bathtubs and shower trays	Simplex	425	61682	1 1/2	133825	0.01533
608207	Drains for bathtubs and shower trays	Equipment set VisignRU2	55	616189	-	490690	0.00198

608262	Drains for bathtubs and shower trays	Equipment set VisignRU2	37	616189	-	800369	0.00133
608383	Drains for bathtubs and shower trays	Drain and overflow set	418	6178	1 1/2	354916	0.01507
608432	Drains for bathtubs and shower trays	Citaplex	314	6176	1 1/2	111564	0.01132
608442	Drains for bathtubs and shower trays	Citaplex	466	617624	40/50	105563	0.01680
608452	Drains for bathtubs and shower trays	Citaplex	463	617645	40/50	101947	0.01670
608502	Drains for bathtubs and shower trays	Citaplex	572	617624G	40 X 50	109929	0.02063
608512	Drains for bathtubs and shower trays	Citaplex	575	617645G	40 X 50	112110	0.02073
608653	Drains for bathtubs and shower trays	Citaplex	540	6176241	40	109240	0.01947
609057	Drains for bathtubs and shower trays	Multiplex set	163.5	616201	M5	721244	0.00590
609067	Drains for bathtubs and shower trays	Rotaplex set	88	614201	R5	721558	0.00317
609082	Drains for bathtubs and shower trays	Multiplex set	102.6	616201	M5	735883	0.00370
609091	Drains for bathtubs and shower trays	Multiplex set	108	616201	M5	735890	0.00389
609111	Drains for bathtubs and shower trays	Multiplex set	110	616201	M5	735906	0.00397
609191	Drains for bathtubs and shower trays	Multiplex set	122	616201	M5	806118	0.00440
609201	Drains for bathtubs and shower trays	Multiplex Trio Set	140	616101	MT5	806125	0.00505
610777	Drains for bathtubs and shower trays	Multiplex Set Visign M2	126	616295	NEUTRAL	626662	0.00454
611257	Drains for bathtubs and shower trays	Rosette	30	616802	-	657406	0.00108
611702	Drains for bathtubs and shower trays	Multiplex Trio function unit	931	616152	560 X 40/50	725778	0.03357
612007	Drains for bathtubs and shower trays	Multiplex Trio Set	175	616101	MT5	725785	0.00631
612014	Drains for bathtubs and shower trays	Multiplex Trio Set	120	616101	MT5	725815	0.00433

612031	Drains for bathtubs and shower trays	Multiplex Trio Set	120	616101	MT5	732486	0.00433
612046	Drains for bathtubs and shower trays	Multiplex Trio Set	125	616101	MT5	732493	0.00451
612111	Drains for bathtubs and shower trays	Multiplex Trio Set	131	616101	MT5	732509	0.00472
612127	Drains for bathtubs and shower trays	Multiplex Trio Set	179	616101S	MT5	738051	0.00645
612167	Drains for bathtubs and shower trays	Multiplex Trio Set	178.5	61610DI	MT5	738075	0.00644
612177	Drains for bathtubs and shower trays	Multiplex set	164.8	61620DI	M5	738082	0.00594
612207	Drains for bathtubs and shower trays	Multiplex Trio Set	129	616113	MT3	725792	0.00465
612214	Drains for bathtubs and shower trays	Multiplex Trio Set	114.6	616113	MT3	725822	0.00413
612337	Drains for bathtubs and shower trays	Multiplex Trio Set	178	61610RF	MT5	738099	0.00642
612347	Drains for bathtubs and shower trays	Multiplex set	162.5	61620RF	M5	738105	0.00586
612357	Drains for bathtubs and shower trays	Multiplex Trio Set	168	61610OP	MT5	738112	0.00606
612367	Drains for bathtubs and shower trays	Multiplex set	162	61620OP	M5	738129	0.00584
612467	Drains for bathtubs and shower trays	Multiplex Trio Set	184.4	616113R	MT3	732516	0.00665
612502	Drains for bathtubs and shower trays	Rotaplex Trio Set	84	614101	RT5	732523	0.00303
612517	Drains for bathtubs and shower trays	Rotaplex Trio Set	164	614101	RT5	732530	0.00591
612521	Drains for bathtubs and shower trays	Rotaplex Trio Set	91	614101	RT5	732547	0.00328
612607	Drains for bathtubs and shower trays	Multiplex set	159	61620GC	M5	738167	0.00573
612742	Drains for bathtubs and shower trays	Rotaplex functional unit	720	614222	40 / 50	535858	0.02596
612797	Drains for bathtubs and shower trays	Rotary rosette	33.3	616207	VISIGN M2/R2	554118	0.00120
612877	Drains for bathtubs and shower trays	Multiplex set	166	616201S	M5	740252	0.00599

612897	Drains for bathtubs and shower trays	Multiplex Trio	1200	616170	1070 X 40/50	727758	0.04327
612907	Drains for bathtubs and shower trays	Multiplex Trio	1125	616151	560 X 40/50	727703	0.04057
612917	Drains for bathtubs and shower trays	Multiplex Trio	1150	616161	725 X 40/50	727710	0.04147
612927	Drains for bathtubs and shower trays	Multiplex Trio	1265	616171	1070 X 40/50	727727	0.04562
612937	Drains for bathtubs and shower trays	Multiplex Trio	1050	616150	560 X 40/50	727734	0.03786
612947	Drains for bathtubs and shower trays	Multiplex Trio	1063	616160	725 X 40/50	727741	0.03833
613107	Drains for bathtubs and shower trays	Rotaplex Trio	1115	614161	725 X 40/50	727666	0.04021
613142	Drains for bathtubs and shower trays	Rotaplex functional unit	902	614232	40 / 50	488659	0.03253
613177	Drains for bathtubs and shower trays	Rotaplex	820	614242	R5-725 X 40 / 50	754327	0.02957
613502	Drains for bathtubs and shower trays	Rotaplex functional unit	860	614233	40 / 50	574956	0.03101
613537	Drains for bathtubs and shower trays	Rotaplex Trio Set	99.2	614102	RT3	734107	0.00358
613557	Drains for bathtubs and shower trays	Rotaplex Trio	1270	614160	725 X 40/50	727680	0.04580
613567	Drains for bathtubs and shower trays	Rotaplex Trio	1230	614170	1070 X 40/50	727697	0.04435
613652	Drains for bathtubs and shower trays	Rotaplex Trio function unit	780	99060BD	-	582210	0.02813
613857	Drains for bathtubs and shower trays	Rotary rosette	65	615409	VISIGN M3	632250	0.00234
613867	Drains for bathtubs and shower trays	Rosette	115	615509	VISIGN M4	632267	0.00415
613877	Drains for bathtubs and shower trays	Rotary rosette	40	6161109	VISIGN MT3/RT3	632274	0.00144
613887	Drains for bathtubs and shower trays	Rotary rosette	44	6161159	VISIGN MT4/RT4	632281	0.00159
613897	Drains for bathtubs and shower trays	Inlet cover	13	6161108	MT3 + MT4 VISIGN	632298	0.00047
613917	Drains for bathtubs and shower trays	Simplex	575	616846	40/50 X 725	595678	0.02073

613927	Drains for bathtubs and shower trays	Simplex	445	616821	1 1/2 X 725	595685	0.01605
613943	Drains for bathtubs and shower trays	Gasket set	27	6161106	VISIGN MT3 + MT4	632311	0.00097
614022	Drains for bathtubs and shower trays	Rotaplex Trio function unit	1170	614162	725 X 40/50	727949	0.04219
614032	Drains for bathtubs and shower trays	Rotaplex Trio function unit	1140	614172	1070 X 40/50	727956	0.04111
614052	Drains for bathtubs and shower trays	Multiplex Trio function unit	1027	619111	40/50 AIR	491888	0.03703
614102	Drains for bathtubs and shower trays	Multiplex function unit	845	619212	40/50 AIR	491871	0.03047
614167	Drains for bathtubs and shower trays	Multiplex Trio function unit	920	61615RF	560 X 40/50	731564	0.03317
614202	Drains for bathtubs and shower trays	Multiplex function unit	695	619221	40/50 WATER	491901	0.02506
614252	Drains for bathtubs and shower trays	Multiplex function unit	785	619222	40/50 WATER	491918	0.02831
614267	Drains for bathtubs and shower trays	Multiplex Trio	955	616136	725 X 11/2	727963	0.03444
614417	Drains for bathtubs and shower trays	Multiplex Trio function unit	960	616162	725 X 40/50	727970	0.03462
614427	Drains for bathtubs and shower trays	Multiplex Trio function unit	1082	616172	1070 X 40/50	727987	0.03902
614467	Drains for bathtubs and shower trays	Multiplex Trio function unit	1042	616143	725 X 40/50	727994	0.03757
614557	Drains for bathtubs and shower trays	Simplex Trio	960	616641	560 X 40/50	728007	0.03462
614567	Drains for bathtubs and shower trays	Simplex Trio	975	616642	725 X 40/50	728014	0.03516
614807	Drains for bathtubs and shower trays	Equipment set	193	61920	-	492021	0.00696
614827	Drains for bathtubs and shower trays	Multiplex Trio function unit	950	61616OP	725 X 40/50	731380	0.03426
614847	Drains for bathtubs and shower trays	Multiplex Trio function unit	920	61615OP	560 X 40/50	731403	0.03317
614872	Drains for bathtubs and shower trays	Multiplex Trio function unit	1080	619132	560 X 270/400	728038	0.03894
614892	Drains for bathtubs and shower trays	Multiplex Trio function unit	920	61615DI	560 X 40/50	731427	0.03317

614902	Drains for bathtubs and shower trays	Multiplex Trio function unit	955	61616DI	725 X 40/50	731434	0.03444
614912	Drains for bathtubs and shower trays	Multiplex Trio function unit	1075	61617DI	1070 X 40/50	731441	0.03876
614932	Drains for bathtubs and shower trays	Multiplex Trio function unit	917	619141	725 X 40/50	728045	0.03307
614942	Drains for bathtubs and shower trays	Multiplex Trio function unit	975	619142	725 X 40/50	728052	0.03516
614997	Drains for bathtubs and shower trays	Multiplex Trio function unit	950	61616RF	725 X 40/50	731571	0.03426
615017	Drains for bathtubs and shower trays	Multiplex Trio function unit	928	61615GC	560 X 40/50	740313	0.03346
615027	Drains for bathtubs and shower trays	Multiplex Trio function unit	952	61616GC	725 X 40/50	740320	0.03433
615037	Drains for bathtubs and shower trays	Multiplex Trio Set	173	61610GC	MT5	740337	0.00624
615047	Drains for bathtubs and shower trays	Multiplex function unit	727	61631GC	40/50	740344	0.02622
615072	Drains for bathtubs and shower trays	Multiplex Trio function unit	925	616152S	560 X 40/50	731588	0.03335
615082	Drains for bathtubs and shower trays	Multiplex Trio function unit	946	616162S	725 X 40/50	731595	0.03411
615097	Drains for bathtubs and shower trays	Multiplex Trio	655	61495AA	725 X 1 1/2	785598	0.02362
615102	Drains for bathtubs and shower trays	Rotaplex functional unit	785	619411	40 / 50 X 725 AIR	554873	0.02831
615117	Drains for bathtubs and shower trays	Multiplex	872	61635AA	1070 X 1 1/2	785604	0.03144
615122	Drains for bathtubs and shower trays	Rotaplex Trio function unit	1000	619331	725 X 40/50	728076	0.03606
615147	Drains for bathtubs and shower trays	Multiplex	750	61636AA	725 X 1 1/2	785611	0.02704
615247	Drains for bathtubs and shower trays	Multiplex Trio Set	90	97519BD	MT5	745974	0.00325
615487	Drains for bathtubs and shower trays	Multiplex Trio	2285	6161321	725 X 1 1/2	728106	0.08240
615527	Drains for bathtubs and shower trays	Multiplex Trio	1055	61751	40/50	731618	0.03804
615537	Drains for bathtubs and shower trays	Rotaplex Trio	1064	61752	40/50	731625	0.03837

615622	Drains for bathtubs and shower trays	Valve cone	18.6	614290	64	575397	0.00067
615822	Drains for bathtubs and shower trays	Multiplex Trio function unit	940	6191410	725 X 40/50	728113	0.03390
615987	Drains for bathtubs and shower trays	Multiplex set	84	619265	M5	746018	0.00303
615997	Drains for bathtubs and shower trays	Equipment set	59.5	619165	-	746001	0.00215
616107	Drains for bathtubs and shower trays	Multiplex set	115	61540	M3	576325	0.00415
616122	Drains for bathtubs and shower trays	Multiplex set	110	61540	M3	735913	0.00397
616177	Drains for bathtubs and shower trays	Multiplex set	161	61540R	M3	740450	0.00581
616191	Drains for bathtubs and shower trays	Multiplex set	125	61620DI	M5	799953	0.00451
616211	Drains for bathtubs and shower trays	Multiplex Trio Set	145	61610DI	MT5	799960	0.00523
616597	Drains for bathtubs and shower trays	Rotaplex set	110	61560	R3	586508	0.00397
616601	Drains for bathtubs and shower trays	Rotaplex set	158	614201	R5	799984	0.00570
616611	Drains for bathtubs and shower trays	Rotaplex Trio Set	116	614101	RT5	799991	0.00418
616917	Drains for bathtubs and shower trays	Tempoplex	380	97186BD	WS50	780852	0.01370
616977	Drains for bathtubs and shower trays	Tempoplex	330	97185BD	WS30	776794	0.01190
618167	Drains for bathtubs and shower trays	Hood	19.6	614802	75	750008	0.00071
618187	Drains for bathtubs and shower trays	Hood	20.9	614803	75	750015	0.00075
620487	Drains for bathtubs and shower trays	Hood	139	6145390	74 X M8	683566	0.00501
621407	Drains for bathtubs and shower trays	Tempoplex	330	6965	115 X 40/50	801786	0.01190
621413	Drains for bathtubs and shower trays	Tempoplex function unit	286	69651	115 X 40/50	801793	0.01031
623782	Drains for bathtubs and shower trays	Drain and overflow set	390	6387	1 1/2 X 40	106812	0.01406

623817	Drains for bathtubs and shower trays	Tempoplex	338	6963SE	112 X 40	651428	0.01219
624177	Drains for bathtubs and shower trays	Multiplex Trio F	1598	61454	560 X 40/50	672027	0.05762
631682	Drains for bathtubs and shower trays	Drain and overflow set	262	6311K	1 1/2	121617	0.00945
631997	Drains for bathtubs and shower trays	Simplex WP	765	97891SQ	725 X 40/50	673208	0.02759
632083	Drains for bathtubs and shower trays	Drain and overflow set	376	6311	1 1/2	124052	0.01356
633057	Drains for bathtubs and shower trays	Simplex	480	61685	1 1/2 X 40	606565	0.01731
640092	Drains for bathtubs and shower trays	Drain and overflow set	324	638738	1 1/2 X 40	132880	0.01168
640102	Drains for bathtubs and shower trays	Drain and overflow set	365	638735	1 1/2 X 40/50	311537	0.01316
640132	Drains for bathtubs and shower trays	Drain and overflow set	365	63873UA	1 1/2 X 40/50	573973	0.01316
641092	Drains for bathtubs and shower trays	Tempoplex function unit	401	98416RO	110	698003	0.01446
641802	Drains for bathtubs and shower trays	Multiplex function unit	684	61621DI	40/50 X 540	615086	0.02466
641812	Drains for bathtubs and shower trays	Multiplex function unit	730	61631DI	40/50 X 725	615093	0.02632
641833	Drains for bathtubs and shower trays	Citaplex	578	61764DI	40/50	615116	0.02084
641842	Drains for bathtubs and shower trays	Tempoplex function unit	462	69611DI	112 X 40/50	615123	0.01666
641862	Drains for bathtubs and shower trays	Domoplex functional unit	350	69281DI	70 X 40/50	615147	0.01262
641887	Drains for bathtubs and shower trays	Varioplex	405	69314DI	40/50 X 70 X 120	615161	0.01460
641942	Drains for bathtubs and shower trays	Multiplex function unit	855	61632DI	40/50/1070	633875	0.03083
646367	Drains for bathtubs and shower trays	Cover ring	10	98366VB	72	695934	0.00036
646377	Drains for bathtubs and shower trays	Hood	42.1	614292	115	695941	0.00152
647057	Drains for bathtubs and shower trays	Equipment set	37.9	69300DI	75	658526	0.00137

647077	Drains for bathtubs and shower trays	Equipment set	71	69640DI	115	658540	0.00256
647097	Drains for bathtubs and shower trays	Equipment set	43	69640OP	115	658564	0.00155
647997	Drains for bathtubs and shower trays	Equipment set	21	69300OP	75	661625	0.00076
677227	Drains for bathtubs and shower trays	Multiplex Trio	1050	617010	MT9-560 X 40/50	723347	0.03786
677231	Drains for bathtubs and shower trays	Multiplex Trio	1060	617010	MT9-560 X 40/50	724559	0.03822
677247	Drains for bathtubs and shower trays	Multiplex	945	617110	M9-560 X 40/50	724566	0.03408
677267	Drains for bathtubs and shower trays	Multiplex Trio Set	295	61700	MT9	724580	0.01064
677277	Drains for bathtubs and shower trays	Multiplex set	270	61710	M9	724597	0.00974
677637	Drains for bathtubs and shower trays	Multiplex	830	97427JS	40/50	733261	0.02993
677647	Drains for bathtubs and shower trays	Multiplex set	270	61710RF	M9	740412	0.00974
677657	Drains for bathtubs and shower trays	Multiplex Trio Set	295	61700RF	MT9	740429	0.01064
677667	Drains for bathtubs and shower trays	Multiplex Trio Set	295	61700DI	MT9	750039	0.01064
677687	Drains for bathtubs and shower trays	Multiplex set	265	61710DI	M9	750046	0.00956
678527	Drains for bathtubs and shower trays	Multiplex	945	617111	M9-725X40/50	733582	0.03408
678537	Drains for bathtubs and shower trays	Multiplex	1085	617112	M9-1070X40/50	733599	0.03912
678547	Drains for bathtubs and shower trays	Multiplex Trio	1106	617011	MT9-725X40/50	733605	0.03988
678557	Drains for bathtubs and shower trays	Multiplex Trio	1054	617012	MT9-1070X40/50	733612	0.03801
682837	Drains for bathtubs and shower trays	Valve cone	70	98325KA	-	694142	0.00252
684372	Drains for bathtubs and shower trays	Drain trap	238	682145	1 1/2 X 40/50	312121	0.00858
684382	Drains for bathtubs and shower trays	Drain trap	245	682245	1 1/2 X 40/50	312138	0.00883

689147	Drains for bathtubs and shower trays	Tempoplex	383	6963	115 X 40/50	634100	0.01381
689152	Drains for bathtubs and shower trays	Tempoplex function unit	340	69631	40/50 X 60	634117	0.01226
689422	Drains for bathtubs and shower trays	Tempoplex function unit	441	69631DI	40/50 X 60	657048	0.01590
689497	Drains for bathtubs and shower trays	Simplex	526	61687	40 X 540	650674	0.01897
689612	Drains for bathtubs and shower trays	Drain trap	162	688819	1 1/2 X 40	104030	0.00584
689662	Drains for bathtubs and shower trays	Tempoplex function unit	441	69631OP	40/50 X 60	657451	0.01590
691252	Drains for bathtubs and shower trays	Tempoplex Plus	326	69601DS	40/50	761554	0.01176
691417	Drains for bathtubs and shower trays	Equipment set	70	69690	112	649999	0.00252
691457	Drains for bathtubs and shower trays	Equipment set	37.3	69300	75	649968	0.00135
691467	Drains for bathtubs and shower trays	Equipment set	26.7	69310	90	649975	0.00096
691477	Drains for bathtubs and shower trays	Equipment set	71.9	69640	115	649982	0.00259
691601	Drains for bathtubs and shower trays	Equipment set	49.5	69640	115	806132	0.00178
691802	Drains for bathtubs and shower trays	Tempoplex Plus functional unit	387	69601	50	559991	0.01395
691847	Drains for bathtubs and shower trays	Equipment set	380	69600	112	560003	0.01370
691992	Drains for bathtubs and shower trays	Tempoplex Plus functional unit	373	69608PE	50	752484	0.01345
692107	Drains for bathtubs and shower trays	Domoplex	267	692929	90 X 40	226879	0.00963
692372	Drains for bathtubs and shower trays	Domoplex functional unit	299	69291	85 X 40/50	193607	0.01078
692402	Drains for bathtubs and shower trays	Functional unit	285	692921	85 X 40/50	279226	0.01028
692452	Drains for bathtubs and shower trays	Functional unit	224	6928175	70 X 40	294557	0.00808
692542	Drains for bathtubs and shower trays	Domoplex functional unit	273	69281	70 X 40/50	130817	0.00984

692612	Drains for bathtubs and shower trays	Domoset	18	69280	75	140342	0.00065
692627	Drains for bathtubs and shower trays	Domoplex	244	69289	75 X 40	129583	0.00880
692927	Drains for bathtubs and shower trays	Domoplex	413	6929	90 X 40/50	208615	0,01489
692987	Drains for bathtubs and shower trays	Domoplex	295	6928	75 X 40/50	126582	0.01064
693112	Drains for bathtubs and shower trays	Functional unit	248	692821	70 X 40/50	279219	0.00894
693202	Drains for bathtubs and shower trays	Equipment set	73	69699VB	115	746513	0.00263
693207	Drains for bathtubs and shower trays	Equipment set	78	69699VB	115	746490	0.00281
693541	Drains for bathtubs and shower trays	Equipment set	48.5	69640DI	115	800000	0.00175
693682	Drains for bathtubs and shower trays	Varioplex	410	693145	40/50 X 70 X 120	101220	0.01478
693742	Drains for bathtubs and shower trays	Tubular drain trap	529	6932495	1 1/2 X 40	133207	0.01908
693792	Drains for bathtubs and shower trays	Drain set	301	693389	40/50 X 70 X 120	103408	0.01085
694017	Drains for bathtubs and shower trays	Varioplex	250	69557	70 X 40/50	108847	0.00901
694092	Drains for bathtubs and shower trays	Tempoplex function unit	446	69531	40/50	815271	0.01608
694131	Drains for bathtubs and shower trays	Varioplex	396	69558	80 X 40/50	116408	0.01428
694317	Drains for bathtubs and shower trays	Varioplex	410	693145O	40/50 X 70 X 120	463991	0.01478
694393	Drains for bathtubs and shower trays	Upper part of housing	94.8	69561 253	110 X 82	318284	0.00342
694462	Drains for bathtubs and shower trays	Domoplex	288	692995	85 X 40	485870	0.01039
694497	Drains for bathtubs and shower trays	Equipment set	108	695609	VISIGN M3/R3	778941	0.00389
694747	Drains for bathtubs and shower trays	Drain valve	203	6957	115 X 1 1/2	446567	0.00732
694917	Drains for bathtubs and shower trays	Temposet	47	69560	120	192730	0.00169

695432	Drains for bathtubs and shower trays	Functional unit	220	6928176	70 X 40	473501	0.00793
695507	Drains for bathtubs and shower trays	Duoplex	235	6934	70 X 40/50	327460	0.00847
695627	Drains for bathtubs and shower trays	Duoset	45	69340	70	334390	0.00162
695702	Drains for bathtubs and shower trays	Functional unit	193	69341	70 X 40/50	334338	0.00696
695723	Drains for bathtubs and shower trays	Tempoplex	380	69564EX	40 / 50	378912	0.01370
695807	Drains for bathtubs and shower trays	Domoplex	280	6928EX	75 X 40/50	364755	0.01010
695907	Drains for bathtubs and shower trays	Drain	375	6956EX	120 X 40/50	364786	0.01352
696052	Drains for bathtubs and shower trays	Equipment set	45	69600	112	560805	0.00162
696061	Drains for bathtubs and shower trays	Equipment set	40	69600	112	560812	0.00144
696091	Drains for bathtubs and shower trays	Equipment set	55	69600	112	560843	0.00198
696167	Drains for bathtubs and shower trays	Tempoplex Plus	433	6960	115 X 50	578916	0.01561
696407	Drains for bathtubs and shower trays	Tempoplex	400	6961	115 X 40/50	575601	0.01442
696417	Drains for bathtubs and shower trays	Tempoplex	400	6961RW	40/50	595203	0.01442
696432	Drains for bathtubs and shower trays	Tempoplex function unit	355	69611	40/50	575625	0.01280
696467	Drains for bathtubs and shower trays	Tempoplex function unit	455	97624RW	40 X 130	753832	0.01641
696507	Drains for bathtubs and shower trays	Tempoplex	410	6961PL	115 X 40/50	703394	0.01478
696552	Drains for bathtubs and shower trays	Tempoplex function unit	453	69611OP	110 X 40/50	575663	0.01633
696572	Drains for bathtubs and shower trays	Tempoplex function unit	422	69631VB	50	746483	0.01522
696617	Drains for bathtubs and shower trays	Tempoplex	365	6961875	115 X 40	575618	0.01316
696622	Drains for bathtubs and shower trays	Tempoplex	420	69619BD	112 X 40/50	585471	0.01514

696652	Drains for bathtubs and shower trays	Tempoplex function unit	360	97585RW	40/50	751487	0.01298
696662	Drains for bathtubs and shower trays	Tempoplex function unit	321	97586RW	40/50X60	751494	0.01158
696672	Drains for bathtubs and shower trays	Tempoplex Plus functional unit	378	97587RW	50	751500	0.01363
696732	Drains for bathtubs and shower trays	Tempoplex function unit	395	69621	40/50	576462	0.01424
696733	Drains for bathtubs and shower trays	Tempoplex function unit	264	696218	40/50	806354	0.00952
696827	Drains for bathtubs and shower trays	Tempoplex	388	6963PL	115 X 40/50	801458	0.01399
696947	Drains for bathtubs and shower trays	Equipment set	84	696097	112	611316	0.00303
697042	Drains for bathtubs and shower trays	Tempoplex function unit	363	69611IH	112 X 40/50	591151	0.01309
697107	Drains for bathtubs and shower trays	Tempoplex	464	69616	112 X 40/50	598617	0.01673
697137	Drains for bathtubs and shower trays	Tempoplex	510	69619VB	112 X 40/50	629359	0.01839
697217	Drains for bathtubs and shower trays	Equipment set	40	69600BT	112	626501	0.00144
697242	Drains for bathtubs and shower trays	Functional unit	407	696161	112 X 40/50	651374	0.01468
697272	Drains for bathtubs and shower trays	Tempoplex function unit	486	69611BT	40/50	626495	0.01752
697972	Drains for bathtubs and shower trays	Tempoplex	418	69615	1 3/4	793609	0.01507
698017	Drains for bathtubs and shower trays	Tempoplex Plus	418	6960RW	DN50	676599	0.01507
698047	Drains for bathtubs and shower trays	Temposet	402.1	69580	112	478018	0.01450
698347	Drains for bathtubs and shower trays	Conversion kit	60	695899	112	581633	0.00216
698882	Drains for bathtubs and shower trays	Temposet	37.2	69580	112	442385	0.00134
699262	Drains for bathtubs and shower trays	Domoplex functional unit	348	69281OP	70 X 40/50	464011	0.01255
699392	Drains for bathtubs and shower trays	Tempoplex function unit	335	69633	40/50 X 60	756055	0.01208

699407	Drains for bathtubs and shower trays	Tempoplex	271	6958875	112 X 40	445386	0.00977
703227	Drains for bathtubs and shower trays	Adapter set	245	614997	-	700225	0.00883
703402	Drains for bathtubs and shower trays	Multiplex	830	98518BD	M5 725 X 40/50	701376	0.02993
703412	Drains for bathtubs and shower trays	Multiplex Trio	1072	98519BD	MT5 725 X 40/50	701383	0.03866
707367	Drains for bathtubs and shower trays	Multiplex	930	97441PO	40/50X540X400X400	658885	0.03354
708112	Drains for bathtubs and shower trays	Tempoplex function unit	240	98127PE	110	685959	0.00865
709907	Drains for bathtubs and shower trays	Simplex	538	97998AE	40	682927	0.01940
710302	Drains for bathtubs and shower trays	Tempoplex Plus	504	69609VB	115 X 50	682880	0.01817
710312	Drains for bathtubs and shower trays	Tempoplex Plus	510	69609VB	115 X 50	682897	0.01839
710332	Drains for bathtubs and shower trays	Tempoplex Plus functional unit	453	69601VB	50	726850	0.01633
713407	Drains for bathtubs and shower trays	Simplex WP	588	97335VB	40/50 X 725 X 10	652968	0.02120
714827	Drains for bathtubs and shower trays	Tempoplex	353	98541RO	112 X 40	702731	0.01273
714952	Drains for bathtubs and shower trays	Tempoplex function unit	261	69598PE	40 X 110	660420	0.00941
719942	Drains for bathtubs and shower trays	Domoplex functional unit	225	98903PE	70 X 40/50	713683	0.00811
724247	Drains for bathtubs and shower trays	Equipment set	40	69698VB	115	705558	0.00144
724252	Drains for bathtubs and shower trays	Equipment set	80	69698VB	115	705565	0.00288
740287	Drains for bathtubs and shower trays	Multiplex M5	950	98060BD	1070 X 40/50	704919	0.03426
740297	Drains for bathtubs and shower trays	Multiplex Trio MT5	1038	61491BD	40/50 X 1070	704926	0.03743
740397	Drains for bathtubs and shower trays	Rotaplex Trio RT5	1150	61492BD	40/50 X 725	704957	0.04147
740412	Drains for bathtubs and shower trays	Multiplex	827	98518BD	560 X 40/50	704971	0.02982

740422	Drains for bathtubs and shower trays	Multiplex M5	965	98518BD	1070 X 40/50	704988	0.03480
740462	Drains for bathtubs and shower trays	Multiplex Trio	1190	98519BD	MT5 1070 X 40/50	705008	0.04291
740492	Drains for bathtubs and shower trays	Rotaplex Trio RT5	1012	98521BD	40/50 X 725	705022	0.03649
741237	Drains for bathtubs and shower trays	Multiplex function unit	685	61621RF	40/50 X 540	675691	0.02470
741247	Drains for bathtubs and shower trays	Multiplex function unit	725	61631RF	40/50	675707	0.02614
741267	Drains for bathtubs and shower trays	Citaplex	572	61764RF	40/50	675721	0.02063
741272	Drains for bathtubs and shower trays	Tempoplex function unit	460	69611RF	40/50	675738	0.01659
741287	Drains for bathtubs and shower trays	Equipment set	87	69640RF	115	675745	0.00314
741292	Drains for bathtubs and shower trays	Domoplex functional unit	364	69281RF	70 X 40/50	676551	0.01313
741307	Drains for bathtubs and shower trays	Domoset	43.7	69300RF	75	676568	0.00158
741317	Drains for bathtubs and shower trays	Varioplex	408	69314RF	40/50 X 70 X 120	676575	0.01471
742307	Drains for bathtubs and shower trays	Simplex Funct. m WP	701	97193VB	850 X 40/50	721961	0.02528
742867	Drains for bathtubs and shower trays	Multiplex M5	860	619224	725 X 40/50	699734	0.03101
742877	Drains for bathtubs and shower trays	Multiplex Trio MT5	1090	619124	40/50 X 725	699741	0.03930
742887	Drains for bathtubs and shower trays	Multiplex WP	850	619226	137.5X725X40/50	699758	0.03065
742897	Drains for bathtubs and shower trays	Multiplex Trio WP	1080	619126	725 X 40/50	699765	0.03894
743189	Drains for bathtubs and shower trays	Functional unit	221	69281PE	70 X 40	735487	0.00797
743317	Drains for bathtubs and shower trays	Valve cone	71.3	98488VB	-	700676	0.00257
745567	Drains for bathtubs and shower trays	Tempoplex	433	69636	115 X 40/50	689018	0.01561
745937	Drains for bathtubs and shower trays	Domoplex	244	692895	75 X 40	657093	0.00880

746452	Drains for bathtubs and shower trays	Rotaplex	1185	98039RO	90X 1350X 112X 10	684013	0.04273
747062	Drains for bathtubs and shower trays	Multiplex function unit	685	61621SB	40/50 X 540	669461	0.02470
747082	Drains for bathtubs and shower trays	Tempoplex function unit	463	69611SB	40/50	669485	0.01670
747097	Drains for bathtubs and shower trays	Equipment set	77.1	69640SB	115	669492	0.00278
747102	Drains for bathtubs and shower trays	Domoplex functional unit	358	69281SB	70 X 40/50	669508	0.01291
747117	Drains for bathtubs and shower trays	Equipment set	38	69300SB	75	669515	0.00137
747172	Drains for bathtubs and shower trays	Multiplex function unit	723	61631SB	40/50 X 725	671198	0.02607
747237	Drains for bathtubs and shower trays	Varioplex	408	69314SB	40/50 X 70 X 120	671259	0.01471
747277	Drains for bathtubs and shower trays	Multiplex Trio F	1030	97925DU	1070 X 40/50	676797	0.03714
747287	Drains for bathtubs and shower trays	Multiplex Trio F	1142	97926DU	1070 X 74	676803	0.04118
747297	Drains for bathtubs and shower trays	Multiplex Trio F	1305	97927DU	725 X 74 X 2000	676810	0.04706
747307	Drains for bathtubs and shower trays	Multiplex Trio F	1090	97928DU	540X 400X 270X 74	676827	0.03930
747317	Drains for bathtubs and shower trays	Multiplex Trio F	1108	97929DU	540X 400X 270X 74	676834	0.03995
747617	Drains for bathtubs and shower trays	Multiplex M5	805	98055BD	560 X 40/50	684389	0.02903
747627	Drains for bathtubs and shower trays	Multiplex M5	840	98060BD	725 X 40/50	684396	0.03029
747657	Drains for bathtubs and shower trays	Multiplex Trio MT5	1030	98063BD	560 X 40/50	684426	0.03714
747687	Drains for bathtubs and shower trays	Multiplex Trio MT5	1070	61491BD	40/50 X 725	684433	0.03858
748013	Drains for bathtubs and shower trays	Multiplex M5	785	97908VB	560 X 40/50	796945	0.02831
748022	Drains for bathtubs and shower trays	Simplex Funct.	670	98024VB	725X850X40/50WAT ER	683825	0.02416

748033	Drains for bathtubs and shower trays	Simplex Funct.	530	97910VB	725 X 850 X 40/50	797164	0.01911
748043	Drains for bathtubs and shower trays	Multiplex Trio	655	97913VB	725 X 850 X 40/50	797171	0.02362
748672	Drains for bathtubs and shower trays	Multiplex Trio MT5	775	98033VB	725X850X40/50WAT ER	697853	0.02795
748682	Drains for bathtubs and shower trays	Multiplex Trio	805	98313VB	725 X 850 X 40/50	697860	0.02903
758477	Drains for bathtubs and shower trays	Simplex Trio F WP	1324	98448DU	40/50	698355	0.04774
758647	Drains for bathtubs and shower trays	Multiplex Trio F	1625	97937BD	40/50 X 1070	677022	0.05860
759387	Drains for bathtubs and shower trays	Equipment set	38.5	614909	-	699055	0.00139
759477	Drains for bathtubs and shower trays	Equipment set	36	616709	-	699062	0.00130
759937	Drains for bathtubs and shower trays	Multiplex Trio F	1615	61455	725 X 40/50	675462	0.05824
759947	Drains for bathtubs and shower trays	Multiplex Trio F	1712	61456	1070 X 40/50	675479	0.06173
759957	Drains for bathtubs and shower trays	Multiplex Trio F	1005	614551	725 X 40/50	675486	0.03624
759967	Drains for bathtubs and shower trays	Multiplex Trio F	1728	61481	40/50	675493	0.06231
760837	Drains for bathtubs and shower trays	Rosette	28	98148VB	-	686048	0.00101
760932	Drains for bathtubs and shower trays	Simplex	722	98407RO	725 X 630 X 40/50	697921	0.02603
761297	Drains for bathtubs and shower trays	Multiplex Trio	1071	98433RO	MT31350X40/50X10	698034	0.03862
761773	Drains for bathtubs and shower trays	Inlet part	38	614990	-	698089	0.00137
764873	Drains for bathtubs and shower trays	Valve cone	15	6145193	-	690564	0.00054
764883	Drains for bathtubs and shower trays	Valve cone	26.6	6145391	-	690571	0.00096
766672	Drains for bathtubs and shower trays	Simplex Funct.	695	98312VB	725X850X40/50 W+K	692414	0.02506

766777	Drains for bathtubs and shower trays	Multiplex Trio WP	1055	619125	725 X 40/50	692926	0.03804
766787	Drains for bathtubs and shower trays	Multiplex WP	820	619225	725 X 40/50	692933	0.02957
770177	Drains for bathtubs and shower trays	Multiplex Trio F	1440	98207DU	1070 X 74	687533	0.05193
804547	Drains for bathtubs and shower trays	Simplex WP	755	99838	725 X 40/50	620097	0.02722
804557	Drains for bathtubs and shower trays	Simplex Trio WP	934	99839MW	725 X 40/50	620103	0.03368
807103	Drains for bathtubs and shower trays	Tempoplex function unit	310	98191AB	110	831653	0.01118
839607	Drains for bathtubs and shower trays	Rotaplex	1160	97146RO	90X1350X112X40/50	638771	0.04183
839637	Drains for bathtubs and shower trays	Drain valve	368	97149SC	1 1/2 X 50	638856	0.01327
841581	Drains for bathtubs and shower trays	Rotary actuation	94.8	97807VB	1 st Apr	784096	0.00342
841592	Drains for bathtubs and shower trays	Rotary actuation	135	97808VB	1/4 X 1/4	784102	0.00487
842912	Drains for bathtubs and shower trays	Domoplex	287	69299VS	85 X 40	647827	0.01035
842922	Drains for bathtubs and shower trays	Tempoplex	275	69588VS	112 X 40	647834	0.00992
848617	Drains for bathtubs and shower trays	Equipment set	79	97188SC	-	652104	0.00285
848717	Drains for bathtubs and shower trays	Equipment set	77	97188BD	-	640163	0.00278
850003	Drains for bathtubs and shower trays	Drain set	348	98076BD	BETTEAIR50	804350	0.01255
850082	Drains for bathtubs and shower trays	Drain	619	97187BD	40/40/50	705336	0.02232
850277	Drains for bathtubs and shower trays	Simplex	585	97340RO	725 X 40/50	726959	0.02109
850302	Drains for bathtubs and shower trays	Functional unit	275	692810	70 X 40	726140	0.00992
850627	Drains for bathtubs and shower trays	Simplex Trio	745	97350RO	725 X 40/50	727307	0.02686
851697	Drains for bathtubs and shower trays	Valve cone	69.5	97267VB	-	643379	0.00251

852307	Drains for bathtubs and shower trays	Multiplex function unit	888	97357KA	725 X 40/50	727598	0.03202
852327	Drains for bathtubs and shower trays	Rotaplex functional unit	870	97359KA	725 X 40/50	727611	0.03137
852347	Drains for bathtubs and shower trays	Multiplex function unit	652	97361KA	725 X 1 1/2	727635	0.02351
852357	Drains for bathtubs and shower trays	Multiplex Trio function unit	1005	97362KA	725 X 40/50	727642	0.03624
852367	Drains for bathtubs and shower trays	Multiplex Trio function unit	780	97363KA	725 X 1 1/2	728250	0.02813
852377	Drains for bathtubs and shower trays	Rotaplex Trio function unit	1005	97364KA	725 X 40/50	728267	0.03624
852472	Drains for bathtubs and shower trays	Tempoplex function unit	318	98154PE	110	816360	0.01147
852482	Drains for bathtubs and shower trays	Tempoplex function unit	296	98155PE	110	816377	0.01067
852507	Drains for bathtubs and shower trays	Multiplex	938	61711BD	M9-560 X 40/50	728823	0.03382
852577	Drains for bathtubs and shower trays	Multiplex	1080	97379BD	1070 X 40/50	730956	0.03894
853347	Drains for bathtubs and shower trays	Multiplex WP	960	97414DU	560X400X270X40/50	732400	0.03462
853367	Drains for bathtubs and shower trays	Rotaplex	1245	97416DU	125X600X600X40/50	732424	0.04489
853397	Drains for bathtubs and shower trays	Multiplex Trio WP	1190	97419DU	560X400X270X40/50	732950	0.04291
853487	Drains for bathtubs and shower trays	Rotaplex Trio	1150	97432DU	-	733667	0.04147
853627	Drains for bathtubs and shower trays	Multiplex	1033	61712BD	1070 X 40/50 X 500	740573	0.03725
853682	Drains for bathtubs and shower trays	Drain	595	97197SC	52 X 40/50	641085	0.02146
853692	Drains for bathtubs and shower trays	Drain	564	97198SC	52 X 40/50	641092	0.02034
853712	Drains for bathtubs and shower trays	Drain	490	97200SC	52 X 40/50	641115	0.01767
853722	Drains for bathtubs and shower trays	Drain	530	97201SC	90 X 40/50	641122	0.01911
853787	Drains for bathtubs and shower trays	Capping	17.3	97207SC	75	641184	0.00062

854507	Drains for bathtubs and shower trays	Inlet cover	40	97480KA	72	741174	0.00144
855187	Drains for bathtubs and shower trays	Domoplex	304	97805RO	75 X 40	783075	0.01096
855327	Drains for bathtubs and shower trays	Multiplex Trio	854	99764RH	725X750X40/50	615277	0.03079
855617	Drains for bathtubs and shower trays	Multiplex Trio function unit	891	97639DO	40/50X725	754464	0.03213
856262	Drains for bathtubs and shower trays	Equipment set	554	97533BD	M7	748159	0.01998
857087	Drains for bathtubs and shower trays	Multiplex	975	97534SC	M9-725	748340	0.03516
857097	Drains for bathtubs and shower trays	Multiplex Trio	1100	97535SC	MT9-725	748357	0.03967
857102	Drains for bathtubs and shower trays	Overflow	138	97536SC	52	748364	0.00498
857112	Drains for bathtubs and shower trays	Overflow	380	97540SC	52	748371	0.01370
857147	Drains for bathtubs and shower trays	Rosette	35	97541SC	VISIGN M3	748388	0.00126
857157	Drains for bathtubs and shower trays	Equipment set	46	97542SC	VISIGN MT3	748395	0.00166
857232	Drains for bathtubs and shower trays	Drain trap	81	97240DB	1 1/4 X 1 1/2 X 40	641573	0.00292
857317	Drains for bathtubs and shower trays	Inlet cover	11	97673DO	72	761257	0.00040
857347	Drains for bathtubs and shower trays	Tempoplex	500	97032LN	112 X 40/50	653767	0.01803
857352	Drains for bathtubs and shower trays	Tempoplex function unit	462	69611LN	40/50	653774	0.01666
857377	Drains for bathtubs and shower trays	Equipment set	75	97032LN	112	653798	0.00270
857412	Drains for bathtubs and shower trays	Tempoplex function unit	373	97838RO	40 X 115	786748	0.01345
857627	Drains for bathtubs and shower trays	Equipment set	76	99871KA	-	622299	0.00274
858054	Drains for bathtubs and shower trays	Valve cone	45	97693KA	34 X M5	761981	0.00162
858077	Drains for bathtubs and shower trays	Multiplex Trio	1214	97815BD	MT5-40/50X725	786755	0.04378

858082	Drains for bathtubs and shower trays	Multiplex Trio	1200	97824BD	MT5-40/50X725	786762	0.04327
858117	Drains for bathtubs and shower trays	Rotaplex Trio	1315	97825BD	RT5-40/50X725	786779	0.04742
858477	Drains for bathtubs and shower trays	Multiplex Trio	1278	97827BD	PLUS5-40/50X1070	786793	0.04608
858627	Drains for bathtubs and shower trays	Multiplex function unit	733	97717DO	725 X 40/50	763152	0.02643
859507	Drains for bathtubs and shower trays	Rosette	35.7	99756	-	614751	0.00129
859682	Drains for bathtubs and shower trays	Tempoplex function unit	322	97747PE	110	771867	0.01161
859712	Drains for bathtubs and shower trays	Tempoplex function unit	295	97748PE	110	771874	0.01064
860672	Drains for bathtubs and shower trays	Tempoplex function unit	318	98029NO	40 X 80 X 110	798277	0.01147
863312	Drains for bathtubs and shower trays	Rotaplex functional unit	500	6143	1 1/2 X 725	627201	0.01803
864633	Drains for bathtubs and shower trays	Valve cone	10.6	99797VB	10 X 68	616496	0.00038
866122	Drains for bathtubs and shower trays	Multiplex	770	99656RH	40/50 X 725	606169	0.02777
868237	Drains for bathtubs and shower trays	Multiplex Trio	1170	97158SE	560 X 40	639525	0.04219
868427	Drains for bathtubs and shower trays	Multiplex Trio	1070	616134	40/50	641498	0.03858
869117	Drains for bathtubs and shower trays	Simplex	675	97261LN	40/50 X 725	643287	0.02434
869127	Drains for bathtubs and shower trays	Simplex Trio	1065	97262LN	40/50 X 725	643294	0.03840
869137	Drains for bathtubs and shower trays	Simplex	910	97263PO	40/50 X 725	643300	0.03281
869147	Drains for bathtubs and shower trays	Simplex Trio	1300	97264PO	40/50 X 725	643317	0.04688
869587	Drains for bathtubs and shower trays	Equipment set	154	97269LN	-	643706	0.00555
869592	Drains for bathtubs and shower trays	Simplex Trio	1080	97270LN	40/50 X 725	643713	0.03894
869607	Drains for bathtubs and shower trays	Equipment set	190	97271LN	-	643720	0.00685

869622	Drains for bathtubs and shower trays	Drain set	94.2	99743AT	40 X 70 X 115	614195	0.00340
869772	Drains for bathtubs and shower trays	Simplex Trio	1090	98118LN	FUNCT.40/50 X 725	808457	0.03930
870003	Drains for bathtubs and shower trays	Simplex Funct.	750	98093LN	40/50 X 725	806040	0.02704
872107	Drains for bathtubs and shower trays	Multiplex M5	790	97234ID	40/50	721503	0.02849
872127	Drains for bathtubs and shower trays	Multiplex Trio MT5	1055	97236ID	40/50	721527	0.03804
872137	Drains for bathtubs and shower trays	Multiplex Trio MT5	1070	97237ID	40/50	722005	0.03858
872207	Drains for bathtubs and shower trays	Multiplex	1150	97239	M8-40/50	723064	0.04147
872217	Drains for bathtubs and shower trays	Multiplex Trio	1452	97245	MT8-40/50	723071	0.05236
877072	Drains for bathtubs and shower trays	Multiplex Trio function unit	1054	97691GH	40/50 X 560	826000	0.03801
877087	Drains for bathtubs and shower trays	Multiplex	836	97623RW	40/50 X 725	753405	0.03015
877097	Drains for bathtubs and shower trays	Functional unit	701	98066GH	40/50 X 560	826017	0.02528
877647	Drains for bathtubs and shower trays	Multiplex	818	96449PR	40/50 X 560	750619	0.02950
877667	Drains for bathtubs and shower trays	Multiplex	908	96451PR	40/50 X 360 X 725	750626	0.03274
878027	Drains for bathtubs and shower trays	Drain and overflow set	769	97889VB	725 X 850 X 40/50	791001	0.02773
878037	Drains for bathtubs and shower trays	Drain and overflow set	860	97893VB	725 X 850 X 40/50	791018	0.03101
878083	Drains for bathtubs and shower trays	Tempoplex	332	97885SC	WS30	791537	0.01197
878093	Drains for bathtubs and shower trays	Tempoplex	384	97886SC	WS50	791544	0.01385
880207	Drains for bathtubs and shower trays	Simplex	685	98998KA	560 X 40/50	720049	0.02470
880217	Drains for bathtubs and shower trays	Simplex	730	98999KA	40/50 X 725	720056	0.02632
888697	Drains for bathtubs and shower trays	Tempoplex	275	69588RO	112 X 40	567354	0.00992

894667	Drains for bathtubs and shower trays	Simplex	708	98930GA	40/50	491000	0.02553
896227	Drains for bathtubs and shower trays	Multiplex Trio WP	1140	97529HD	725 X 40/50	661823	0.04111
897987	Drains for bathtubs and shower trays	Rotaplex	825	99050ID	90 X 40/50 X 725	536060	0.02975
898062	Drains for bathtubs and shower trays	Rotaplex functional unit	560	99058BD	90 X 340 X 400X400	536275	0.02019
898102	Drains for bathtubs and shower trays	Functional unit	950	99062BT	90 X 40/50	536312	0.03426
914532	Drains for bathtubs and shower trays	Drain trap	217	688719	1 1/2	294717	0.00782
917272	Drains for bathtubs and shower trays	Drain connection	175	98540	1 1/2 X 70	470029	0.00631
924597	Drains for bathtubs and shower trays	Simplex	615	98629SD	1 1/2	473129	0.02218
924607	Drains for bathtubs and shower trays	Simplex	575	98630SD	1 1/2	473136	0.02073
926267	Drains for bathtubs and shower trays	Equipment set	1045	98250BT	115	441241	0.03768
926427	Drains for bathtubs and shower trays	Equipment set	1,548.2	98251BT	115	442125	0.05583
956392	Drains for bathtubs and shower trays	Valve	188	98134	1 1/2	421076	0.00678
957670	Drains for bathtubs and shower trays	Hood	13	98701GH	74	478582	0.00047
962393	Drains for bathtubs and shower trays	Multiplex	820	96498	40/50	118747	0.02957
970250	Drains for bathtubs and shower trays	Inlet cover	24	97704GH	80 X 28	329006	0.00087
974232	Drains for bathtubs and shower trays	Hood	53	964381	118	126216	0.00191
974657	Drains for bathtubs and shower trays	Assembly group Hood	92.6	964385 86E	-	277499	0.00334
980247	Drains for bathtubs and shower trays	Rosette	233	9672622	-	261368	0.00840
980283	Drains for bathtubs and shower trays	Multiplex Trio function unit	1075	98181GH	40/50 X 725	826321	0.03876
980303	Drains for bathtubs and shower trays	Functional unit	730	98183GH	40/50 X 725	826345	0.02632

980323	Drains for bathtubs and shower trays	Connection set	1889	98185GH	3 rd Apr	826468	0.06812
987153	Drains for bathtubs and shower trays	Equipment set	109	97171VB	-	149857	0.00393
989983	Drains for bathtubs and shower trays	Hood	200.5	98779BD	120	483623	0.00723

Drains for sinks, spouts and appliances

Material no.	System	Material short text ENG	Weight [g]	Model no.	Dimensions	Item no.	Conversion factor
365973	Drains for sinks, spouts and appliances	Hose	191	3892	50 X 50/40 X 1000	674465	0.42634
379302	Drains for sinks, spouts and appliances	Drain pipe	83.5	3891	40 X 250MM	124786	0.18638
379312	Drains for sinks, spouts and appliances	Drain pipe	142	3891	40 X 500	130220	0.31696
379402	Drains for sinks, spouts and appliances	Drain pipe	110.6	3891	50 X 250	129514	0.24688
379412	Drains for sinks, spouts and appliances	Drain pipe	181	3891	50 X 500	125691	0.40402
379503	Drains for sinks, spouts and appliances	Hose	77.5	3892	50 X 50/40 X 250	460761	0.17299
379513	Drains for sinks, spouts and appliances	Hose	114	3892	50 X 50/40 X 500	460778	0.25446
379523	Drains for sinks, spouts and appliances	Hose	143.6	3892	50 X 50/40 X 750	460785	0.32054
502598	Drains for sinks, spouts and appliances	Universal valve	65	51213	1 1/4 X 60 (55)	101299	0.14509
502712	Drains for sinks, spouts and appliances	Universal valve	63.5	5121K	1 1/4 X 60 (55)	111847	0.14174
502732	Drains for sinks, spouts and appliances	Universal valve	88.5	512105K	1 1/4 X 60 (80)	122065	0.19754
503882	Drains for sinks, spouts and appliances	Universal valve	96	512115K	1 1/4 X 60 (80)	129392	0.21429
504882	Drains for sinks, spouts and appliances	Universal valve	58.5	5125K	1 1/4 X 60 (80)	119836	0.13058
527987	Drains for sinks, spouts and appliances	Standpipe	60	54209	63 X 113	613648	0.13393
528287	Drains for sinks, spouts and appliances	Drain set	398	54201	1 1/4 X 60	671471	0.88839
544357	Drains for sinks, spouts and appliances	Adjustment pipe	88.5	56921	1 1/4 X 200	103033	0.19754
555642	Drains for sinks, spouts and appliances	Connection elbow	72	562125	1 1/4 X 300	618865	0.16071

556002	Drains for sinks, spouts and appliances	Pipe	26.5	5725V 542	32 X 200	193508	0.05915
559042	Drains for sinks, spouts and appliances	Drain set	391	98816BD	1 1/4 X 60 - FLOW	707699	0.87277
563952	Drains for sinks, spouts and appliances	Pipe	33	5725V 542	40 X 200	699987	0.07366
571192	Drains for sinks, spouts and appliances	Drain and overflow set	505	98880VB	1 1/2 X 40	712433	1.12723
571742	Drains for sinks, spouts and appliances	Outlet pipe	131	5791 111	32 X 220 X 680	102579	0.29241
571782	Drains for sinks, spouts and appliances	Outlet pipe	189.8	5791 111	40 X 220 X 680	123901	0.42366
571792	Drains for sinks, spouts and appliances	Outlet pipe	138	5791 111	32 X 220 X 750	132774	0.30804
572842	Drains for sinks, spouts and appliances	Drain and overflow set	510	98885VB	1 1/2 X 40	712983	1.13839
576462	Drains for sinks, spouts and appliances	Drain set	380	5815K	1 1/4 X 60 X 60	135713	0.84821
576622	Drains for sinks, spouts and appliances	Drain set	124	5816	1 1/4 X 60	137328	0.27679
587692	Drains for sinks, spouts and appliances	Pipe	33.1	5725V 542	32 X 250	613280	0.07388
604962	Drains for sinks, spouts and appliances	Overflow pipe	194	6165	660 X 300	167899	0.43304
608032	Drains for sinks, spouts and appliances	Assembly group Moulded T	32.4	6211 835	1 1/2	106218	0.07232
608312	Drains for sinks, spouts and appliances	Overflow pipe	77	6176 651	220 X 180	113124	0.17188
632172	Drains for sinks, spouts and appliances	Assembly group Overflow	65	6311 803	-	133658	0.14509
636852	Drains for sinks, spouts and appliances	Elbow 45°	58	616299	40/50	719265	0.12946
644122	Drains for sinks, spouts and appliances	Hose	79.3	616895	27/32 X 1250	798192	0.17701
685481	Drains for sinks, spouts and appliances	Drain trap	270	68351	1 1/4	123765	0.60268
685491	Drains for sinks, spouts and appliances	Drain trap	428.3	68351	1 1/2	117900	0.95603
689582	Drains for sinks, spouts and appliances	Drain trap	157	688745	1 1/2 X 40/50	106263	0.35045

689632	Drains for sinks, spouts and appliances	Drain trap	72.5	688820	1 1/2 X 40	118662	0.16183
689702	Drains for sinks, spouts and appliances	Drain trap	87.6	6889	1 1/2 X 40/50	102326	0.19554
690402	Drains for sinks, spouts and appliances	Adjustment pipe	33.5	6892	1 1/4 X 40 X 120	115432	0.07478
690412	Drains for sinks, spouts and appliances	Adjustment pipe	59.5	6892	2 X 50 X 120	126209	0.13281
690422	Drains for sinks, spouts and appliances	Adjustment pipe	35.4	6892	1 1/2 X 40 X 120	107840	0.07902
690432	Drains for sinks, spouts and appliances	Adjustment pipe	42	6892	1 1/2 X 50 X 120	108731	0.09375
690442	Drains for sinks, spouts and appliances	Adjustment pipe	75	6892	1 1/2 X 50 X 250	118686	0.16741
690452	Drains for sinks, spouts and appliances	Adjustment pipe	50.4	6892	1 1/4 X 40 X 200	125400	0.11250
690462	Drains for sinks, spouts and appliances	Adjustment pipe	48	6892	1 1/2 X 40 X 200	106591	0.10714
690472	Drains for sinks, spouts and appliances	Adjustment pipe	69.75	6892	2 X 40 X 200	130534	0.15569
690482	Drains for sinks, spouts and appliances	Adjustment pipe	132	6892	1 1/2 X 40 X 500	136888	0.29464
690502	Drains for sinks, spouts and appliances	Adjustment pipe	174	6892	2 X 50 X 500	154424	0.38839
690562	Drains for sinks, spouts and appliances	Adjustment pipe	46	6892	1 1/4 X 34 X 200	121631	0.10268
690632	Drains for sinks, spouts and appliances	Assembly group Immersion pipe	7.8	69281 821	-	317232	0.01741
690702	Drains for sinks, spouts and appliances	Moulded T	41.6	6895	-	119188	0.09286
691242	Drains for sinks, spouts and appliances	Moulded T	52	69951	32 X 32	754785	0.11607
691722	Drains for sinks, spouts and appliances	Immersion pipe	34	696099	69.6	582968	0.07589
691742	Drains for sinks, spouts and appliances	Immersion pipe	26	696199	-	582982	0.05804
691942	Drains for sinks, spouts and appliances	Assembly group Immersion pipe	12.43	6928 821	-	290856	0.02775
692417	Drains for sinks, spouts and appliances	Standpipe	55	69285	100	446642	0.12277

693272	Drains for sinks, spouts and appliances	Drain valve	160.5	6927	85 X 40	111779	0.35826
694292	Drains for sinks, spouts and appliances	Immersion pipe	17	6956632	53.8 x 69	177829	0.03795
694362	Drains for sinks, spouts and appliances	Assembly group Immersion pipe	25	69561 821	-	318260	0.05580
695532	Drains for sinks, spouts and appliances	Assembly group Immersion pipe	15.8	6934 821	40	327491	0.03527
698722	Drains for sinks, spouts and appliances	Assembly group Immersion pipe	43	69581 821	65.7	450229	0.09598
702562	Drains for sinks, spouts and appliances	Assembly group Valve lower part	30.6	7121K 971	1 1/2	114336	0.06830
702633	Drains for sinks, spouts and appliances	Drain valve	179.5	7121	1 1/2 X 80	107673	0.40067
702653	Drains for sinks, spouts and appliances	Drain valve	198	7121	2 X 80	117146	0.44196
702692	Drains for sinks, spouts and appliances	Drain valve	115	7121K	1 1/2 X 80	117429	0.25670
702702	Drains for sinks, spouts and appliances	Drain valve	119	7122K	1 1/2 X 80	109516	0.26563
703602	Drains for sinks, spouts and appliances	Drain valve	135	712205K	1 1/2 X 80	109110	0.30134
703672	Drains for sinks, spouts and appliances	Drain valve	148.5	712215K	1 1/2 X 80	131012	0.33147
703752	Drains for sinks, spouts and appliances	Adapter	42	61628	40/56	675585	0.09375
706493	Drains for sinks, spouts and appliances	Drain valve	210	7128	1 1/2 X 114.5	109967	0.46875
706662	Drains for sinks, spouts and appliances	Drain and overflow set	320	71284	-	325107	0.71429
709132	Drains for sinks, spouts and appliances	Drain set	265	71355	1 1/2 X 70	130411	0.59152
709243	Drains for sinks, spouts and appliances	Sieve	56.5	7139159	82	680688	0.12612
709253	Drains for sinks, spouts and appliances	Sieve	61	7139169	82	680695	0.13616
710022	Drains for sinks, spouts and appliances	Drain set	371	71382	1 1/2 X 70	147266	0.82813
710032	Drains for sinks, spouts and appliances	Drain set	310	713852	1 1/2 X 70	152550	0.69196

710552	Drains for sinks, spouts and appliances	Drain valve set	370	713915	-	578886	0.82589
710562	Drains for sinks, spouts and appliances	Drain valve set	435	713916	-	578893	0.97098
725002	Drains for sinks, spouts and appliances	Drain and overflow set	617	72411VB	1 1/2	775452	1.37723
725022	Drains for sinks, spouts and appliances	Drain and overflow set	904	72412VB	1 1/2	775476	2.01786
725032	Drains for sinks, spouts and appliances	Drain and overflow set	1205	72521VB	1 1/2	775483	2.68973
725042	Drains for sinks, spouts and appliances	Drain and overflow set	1186	72521VB	1 1/2	775490	2.64732
725052	Drains for sinks, spouts and appliances	Drain and overflow set	1088	72521VB	1 1/2	775506	2.42857
725072	Drains for sinks, spouts and appliances	Drain and overflow set	1236	72621VB	1 1/2	775520	2.75893
725082	Drains for sinks, spouts and appliances	Drain and overflow set	598	97455VB	1 1/2	775537	1.33482
725112	Drains for sinks, spouts and appliances	Drain and overflow set	891	98851VB	1 1/2	775568	1.98884
725122	Drains for sinks, spouts and appliances	Drain and overflow set	1120	98857VB	1 1/2	775575	2.50000
725132	Drains for sinks, spouts and appliances	Drain and overflow set	615	98884VB	1 1/2	775582	1.37277
725142	Drains for sinks, spouts and appliances	Drain and overflow set	622	98886VB	1 1/2	775599	1.38839
725152	Drains for sinks, spouts and appliances	Drain and overflow set	710	99416VB	1 1/2	775605	1.58482
725172	Drains for sinks, spouts and appliances	Drain and overflow set	503	99937VB	1 1/2	775629	1.12277
725202	Drains for sinks, spouts and appliances	Drain and overflow set	631	99945VB	1 1/2	775650	1.40848
725212	Drains for sinks, spouts and appliances	Drain and overflow set	623	99949VB	1 1/2	775667	1.39063
725222	Drains for sinks, spouts and appliances	Drain and overflow set	483	71441VB	1 1/2	775674	1.07813
725232	Drains for sinks, spouts and appliances	Drain and overflow set	846	71541VB	1 1/2	775681	1.88839
725252	Drains for sinks, spouts and appliances	Drain and overflow set	984	71541VB	1 1/2	775704	2.19643

725262	Drains for sinks, spouts and appliances	Drain and overflow set	878	71541VB	1 1/2	775711	1.95982
725272	Drains for sinks, spouts and appliances	Drain and overflow set	1013	71641VB	1 1/2	775728	2.26116
725352	Drains for sinks, spouts and appliances	Overflow	94	97295VB	-	775797	0.20982
732312	Drains for sinks, spouts and appliances	Drain valve	37.2	7372	3/4 X 50	105624	0.08304
732542	Drains for sinks, spouts and appliances	Drain valve	40	73731	3/4 X 50	125523	0.08929
733042	Drains for sinks, spouts and appliances	Drain valve	65	97675WB	1 1/2 X 33	763169	0.14509
733052	Drains for sinks, spouts and appliances	Drain valve	42.5	73729DF	3/4 X 50	764081	0.09487
733742	Drains for sinks, spouts and appliances	Assembly group Valve	72	99008 817	4-PART	107826	0.16071
733762	Drains for sinks, spouts and appliances	Drain valve	82.5	7432	1 1/2 X 70	102678	0.18415
733782	Drains for sinks, spouts and appliances	Drain valve	83	743231	1 1/2 X 70	101961	0.18527
733802	Drains for sinks, spouts and appliances	Drain valve	94	743251	1 1/2 X 70	106140	0.20982
733902	Drains for sinks, spouts and appliances	Valve	80.5	743291	1 1/2	109615	0.17969
738723	Drains for sinks, spouts and appliances	Bonnet	35.24	7531 454	1 1/2	141059	0.07866
738742	Drains for sinks, spouts and appliances	Assembly group Valve	76.9	99008 817	4-PART	105884	0.17165
738842	Drains for sinks, spouts and appliances	Drain valve	139	7531	1 1/2 X 70	137069	0.31027
740232	Drains for sinks, spouts and appliances	Sink valve	128	7531512	1 1/2 X 70	110901	0.28571
740332	Drains for sinks, spouts and appliances	Drain valve	90	7532	1 1/2 X 70	106058	0.20089
740352	Drains for sinks, spouts and appliances	Strainer valve	83	7599RE	1 1/2	189402	0.18527
740452	Drains for sinks, spouts and appliances	Sink valve	103.4	7532	1 1/4 X 70	122911	0.23080
742922	Drains for sinks, spouts and appliances	Drain valve set	478	7139153	-	699864	1.06696

742932	Drains for sinks, spouts and appliances	Drain valve set	540	7139163	-	699871	1.20536
744092	Drains for sinks, spouts and appliances	Drain connection	203	713920	-	689025	0.45313
744102	Drains for sinks, spouts and appliances	Drain valve	90	7622	1 1/2 X 70	108519	0.20089
744112	Drains for sinks, spouts and appliances	Drain valve	79.2	7621	1 1/2 X 70	308940	0.17679
744122	Drains for sinks, spouts and appliances	Drain valve	92	762231	1 1/2 X 70	104849	0.20536
744142	Drains for sinks, spouts and appliances	Drain valve	99.5	762251	1 1/2 X 70	109233	0.22210
745662	Drains for sinks, spouts and appliances	Assembly group Valve lower part	35	7631 971	1 1/2 X 48	112332	0.07813
746102	Drains for sinks, spouts and appliances	Drain and overflow set	398	7463	1 1/2	340186	0.88839
746122	Drains for sinks, spouts and appliances	Assembly group Overflow body	24.6	7442 804	-	568856	0.05491
747522	Drains for sinks, spouts and appliances	Drain valve set	445	7139151	-	678548	0.99330
747532	Drains for sinks, spouts and appliances	Drain valve set	440	7139152	-	678555	0.98214
747542	Drains for sinks, spouts and appliances	Drain valve set	505	7139161	-	678562	1.12723
747552	Drains for sinks, spouts and appliances	Drain valve set	505	7139162	-	678579	1.12723
747581	Drains for sinks, spouts and appliances	Sieve	7.7	713919	1 1/2	678609	0.01719
749052	Drains for sinks, spouts and appliances	Connection set	65	98327	32 X 1/2 X 10	694173	0.14509
759442	Drains for sinks, spouts and appliances	Drain connection	252	792	1 1/2 X 160-570	113063	0.56250
759532	Drains for sinks, spouts and appliances	Drain connection	265	7923	1 1/2	444853	0.59152
759902	Drains for sinks, spouts and appliances	Drain set	633	792911	1 1/2X40X160-570	125417	1.41295
761532	Drains for sinks, spouts and appliances	Drain connection	164	794	1 1/2X1 1/2X80-310	104917	0.36607
761602	Drains for sinks, spouts and appliances	Drain connection	237	7941	2 X 2 X 80-285	122539	0.52902

761642	Drains for sinks, spouts and appliances	Assembly group Street elbow	78.5	791 880	1 1/2 X 40 X 270	106966	0.17522
761742	Drains for sinks, spouts and appliances	Drain connection	564	7911412	1 1/2	125110	1.25893
762042	Drains for sinks, spouts and appliances	Drain set	500	794851	1 1/2 X 50	329174	1.11607
762062	Drains for sinks, spouts and appliances	Drain set	475	794851	1 1/2 X 40	365875	1.06027
762982	Drains for sinks, spouts and appliances	Street elbow	110	798588V	50 X 250	667368	0.24554
762992	Drains for sinks, spouts and appliances	Street elbow	81.5	798588V	40 X 245	667375	0.18192
763002	Drains for sinks, spouts and appliances	Street elbow	79.15	798547V	40 X 245	667382	0.17667
763342	Drains for sinks, spouts and appliances	Immersion pipe	18	696399	39	696399	0.04018
764241	Drains for sinks, spouts and appliances	Assembly group Sieve	5.7	7961	-	108526	0.01272
767342	Drains for sinks, spouts and appliances	Adjustment pipe	64	798131 697	1 1/2 X 50 X 110	144173	0.14286
767452	Drains for sinks, spouts and appliances	Adjustment pipe	52.5	79813 697	1 1/2 X 50 X 110	111168	0.11719
767472	Drains for sinks, spouts and appliances	Adjustment pipe	64	79813 697	2 X 50 X 110	139100	0.14286
767542	Drains for sinks, spouts and appliances	Adjustment pipe	83.7	798531 697	1 1/2 X 40 X 200	117153	0.18683
767932	Drains for sinks, spouts and appliances	Street elbow	63	7985 101	40 X 40 X 220	148430	0.14063
768002	Drains for sinks, spouts and appliances	Adjustment pipe	94	798550	1 1/2 X 40 X 200	104559	0.20982
768022	Drains for sinks, spouts and appliances	Adjustment pipe	93	798551	40 X 1 X 200	570255	0.20759
768302	Drains for sinks, spouts and appliances	Assembly group Street elbow	110	798501 881	90°X 40 X 220	118426	0.24554
768602	Drains for sinks, spouts and appliances	Adjustment pipe	61.2	798530 697	1 1/4 X 40 X 200	115388	0.13661
768622	Drains for sinks, spouts and appliances	Adjustment pipe	77.8	798530 697	1 1/2 X 40 X 200	111045	0.17366
768922	Drains for sinks, spouts and appliances	Street elbow	75	7985470	40 X 245	109479	0.16741

769152	Drains for sinks, spouts and appliances	Verlängerungsrohr	64	7987570	40 X 250	104641	0.14286
769342	Drains for sinks, spouts and appliances	Transition piece	40	79885	40 X 34	106270	0.08929
769552	Drains for sinks, spouts and appliances	Assembly group Street elbow	73	7985 881	40 X 40 X 79 X 220	112202	0.16295
769562	Drains for sinks, spouts and appliances	Assembly group Street elbow	97.6	7985 881	40 X 50 X 79 X 220	114169	0.21786
769602	Drains for sinks, spouts and appliances	Reducer	13.25	79879	1 1/2 X 1 1/4	788063	0.02958
770082	Drains for sinks, spouts and appliances	Transition piece	50.38	79886	40 X 34	127985	0.11246
803502	Drains for sinks, spouts and appliances	Drain and overflow set	928	97814LA	1 1/2	784867	2.07143
803602	Drains for sinks, spouts and appliances	Drain set	214	98424KO	1 1/4 X 40	697815	0.47768
803882	Drains for sinks, spouts and appliances	Valve lower part	115	97225BI	1 1/2 X 700	641368	0.25670
804451	Drains for sinks, spouts and appliances	Sieve	58.1	97301BI	82	649784	0.12969
804461	Drains for sinks, spouts and appliances	Sieve	54	97302BI	82	649791	0.12054
804471	Drains for sinks, spouts and appliances	Sieve	63	97303BI	80.5	649807	0.14063
804511	Drains for sinks, spouts and appliances	Sieve	39.7	97305BI	81	649821	0.08862
804521	Drains for sinks, spouts and appliances	Sieve	46	97306BI	51	649838	0.10268
804531	Drains for sinks, spouts and appliances	Sieve	40	97307BI	51	649845	0.08929
810142	Drains for sinks, spouts and appliances	Valve	150	97293VB	-	644826	0.33482
810152	Drains for sinks, spouts and appliances	Valve body	127.5	97294VB	-	644833	0.28460
824231	Drains for sinks, spouts and appliances	Drain and overflow set	305	746271M	1 1/2 X 70	125486	0.68080
824242	Drains for sinks, spouts and appliances	Drain and overflow set	176	746271	1 1/2 X 70	100834	0.39286
824272	Drains for sinks, spouts and appliances	Sink set	214	7462719	1 1/2 X 70	136789	0.47768

849042	Drains for sinks, spouts and appliances	Drain set	346	71441RO	1 1/2	637286	0.77232
854342	Drains for sinks, spouts and appliances	Street elbow	125	97241	1 1/2 X 1 1/2	641580	0.27902
857012	Drains for sinks, spouts and appliances	Drain valve	74	97675WB	1 1/2 X 48	762179	0.16518
859932	Drains for sinks, spouts and appliances	Drain and overflow set	1060	73511LA	1 1/2	636647	2.36607
859952	Drains for sinks, spouts and appliances	Overflow	106	98152VB	-	815264	0.23661
859982	Drains for sinks, spouts and appliances	Drain and overflow set	503	97771VB	1 1/2	778552	1.12277
860662	Drains for sinks, spouts and appliances	Drain	208	97777VB	1 1/2	778651	0.46429
862012	Drains for sinks, spouts and appliances	Drain and overflow set	523	98026VB	1 1/2 X 40	798116	1.16741
862022	Drains for sinks, spouts and appliances	Drain and overflow set	640	98027VB	1 1/2 X 40	798123	1.42857
862782	Drains for sinks, spouts and appliances	Drain and overflow set	787	99923BI	1 1/2	627348	1.75670
862842	Drains for sinks, spouts and appliances	Drain and overflow set	774	71442VB	1 1/2	627409	1.72768
862872	Drains for sinks, spouts and appliances	Drain and overflow set	489	99932VB	1 1/2	627430	1.09152
862892	Drains for sinks, spouts and appliances	Drain and overflow set	510	99934VB	1 1/2	627454	1.13839
862902	Drains for sinks, spouts and appliances	Drain and overflow set	948	71541VB	1 1/2	627461	2.11607
863232	Drains for sinks, spouts and appliances	Overflow	12.8	98957	-	627775	0.02857
866682	Drains for sinks, spouts and appliances	Drain and overflow set	346	782342	1 1/2X70X100-270	107116	0.77232
866692	Drains for sinks, spouts and appliances	Drain and overflow set	355	782352	1 1/2X70X100-270	109509	0.79241
871761	Drains for sinks, spouts and appliances	Drain set	835	5422	63 X 35	559779	1.86384
875852	Drains for sinks, spouts and appliances	Assembly group Overflow	28	99397BI	-	576363	0.06250
876182	Drains for sinks, spouts and appliances	Drain and overflow set	592	99415VB	1 1/2	577810	1.32143

876392	Drains for sinks, spouts and appliances	Overflow pipe	148	99430HD	32 X 670 X 220	581121	0.33036
878833	Drains for sinks, spouts and appliances	Valve	70.4	99539	1 1/2	593261	0.15714
879543	Drains for sinks, spouts and appliances	Drain valve	89.8	99571VA	1 1/4	598402	0.20045
880542	Drains for sinks, spouts and appliances	Drain and overflow set	255	99288BI	11/2 X 80	569266	0.56920
885002	Drains for sinks, spouts and appliances	Drain and overflow set	485	787052	1 1/2X70X170-330	108137	1.08259
886422	Drains for sinks, spouts and appliances	Overflow pipe	22.9	7891	25 x 169.5 x 70	101008	0.05112
886432	Drains for sinks, spouts and appliances	Overflow pipe	18.5	7891 651	25 X 130 X 70	113278	0.04129
895822	Drains for sinks, spouts and appliances	Drain valve	310	98963KU	1 1/4	639501	0.69196
915582	Drains for sinks, spouts and appliances	Drain connection	355.6	98490VB	SET 2	464158	0.79375
920162	Drains for sinks, spouts and appliances	Drain piece	98.5	98565VB	1 1/2 X 230	471125	0.21987
923582	Drains for sinks, spouts and appliances	Overflow pipe	105	9672618	230 X 450	434717	0.23438
924922	Drains for sinks, spouts and appliances	Drain and overflow set	220	98639BI	1 1/2 X 80	472511	0.49107
926112	Drains for sinks, spouts and appliances	Drain connection	510	98248	1 1/4 X 1 1/4 X 40	441975	1.13839
928791	Drains for sinks, spouts and appliances	Pipe	139.5	98660ID	45 X 400	475024	0.31138
928862	Drains for sinks, spouts and appliances	Drain and overflow set	215	98661VB	1 1/2	474430	0.47991
942372	Drains for sinks, spouts and appliances	Overflow combination	100	98347	-	451233	0.22321
942542	Drains for sinks, spouts and appliances	Adjustment pipe	58	98353VB	1 1/4 X 40 X 200	454395	0.12946
945283	Drains for sinks, spouts and appliances	Drain and overflow set	347	97966RO	1 1/2	374402	0.77455
950632	Drains for sinks, spouts and appliances	Drain and overflow set	227	98084VB	1 1/4	403232	0.50670
954532	Drains for sinks, spouts and appliances	Assembly group Drain trap	64.5	98399 800	1 1/4 X 3/4	487850	0.14397

955572	Drains for sinks, spouts and appliances	Overflow combination	109	98115	400	411923	0.24330
956323	Drains for sinks, spouts and appliances	Strainer valve	65	98129RO	89	413200	0.14509
959502	Drains for sinks, spouts and appliances	Valve	18.7	98731	3 rd Apr	477912	0.04174
961332	Drains for sinks, spouts and appliances	Suction piece	91	96454	2 1/4 X 50	201326	0.20313
962252	Drains for sinks, spouts and appliances	Drain connection	192	96488RE	1 1/2	129934	0.42857
964394	Drains for sinks, spouts and appliances	Assembly group Lifting rod	59.5	96630BI837	8 X 129	698652	0.13281
965032	Drains for sinks, spouts and appliances	Assembly group Valve lower part	82.8	97099 971	M12 X 17	306489	0.18482
970432	Drains for sinks, spouts and appliances	Outlet pipe	72	96374VB	40 X 300	171827	0.16071
973107	Drains for sinks, spouts and appliances	Standpipe	70	97710VB609	74 X 113	604585	0.15625
973203	Drains for sinks, spouts and appliances	Assembly group Sieve	54.6	96340 858	80	119997	0.12188
974582	Drains for sinks, spouts and appliances	Assembly group Overflow	28.4	96568BI803	-	217273	0.06339
974623	Drains for sinks, spouts and appliances	Sieve	60.3	97750VB	82	333829	0.13460
974633	Drains for sinks, spouts and appliances	Sieve	56.5	97751VB	82	333836	0.12612
974643	Drains for sinks, spouts and appliances	Valve	98.5	97752VB	114	333843	0.21987
974852	Drains for sinks, spouts and appliances	Assembly group Street elbow	43	97844 881	40 X 70 X 142	354305	0.09598
975222	Drains for sinks, spouts and appliances	Drain and overflow set	232	96512VB	1 1/2	117375	0.51786
975503	Drains for sinks, spouts and appliances	Assembly group Sieve	40	97762 858	81	334277	0.08929
976992	Drains for sinks, spouts and appliances	Assembly group Valve lower part	87	97099 971	M6 X 10	355562	0.19420
977372	Drains for sinks, spouts and appliances	Drain valve	73.7	97860	1 1/2	357511	0.16451
978153	Drains for sinks, spouts and appliances	Basket valve	190	97082VB	80	334864	0.42411

979602	Drains for sinks, spouts and appliances	Assembly group Valve body	152	97544 959	1 1/2 X 1 X 600	317379	0.33929
980001	Drains for sinks, spouts and appliances	Conversion kit	21.45	97801VB	17 X M3	782979	0.04788
980313	Drains for sinks, spouts and appliances	Connection set	770	98184GH	1/2 X 16	826451	1.71875
980642	Drains for sinks, spouts and appliances	Bracket	55	97876	1 1/2 X 40	362188	0.12277
981132	Drains for sinks, spouts and appliances	Assembly group Elbow	56.2	7985470819	1 1/2 X 40 X 165	228033	0.12545
981823	Drains for sinks, spouts and appliances	Drain set	465	96870VB	1 1/2	131265	1.03795
982237	Drains for sinks, spouts and appliances	Assembly group Overflow	28.2	97204 803	-	191771	0.06295
983332	Drains for sinks, spouts and appliances	Assembly group Bracket	106.7	96757 926	1 1/2 X 600	137496	0.23817
983437	Drains for sinks, spouts and appliances	Overflow	115	97063VB	38	196103	0.25670
983583	Drains for sinks, spouts and appliances	Basket valve	191	97081VB	80	185015	0.42634
983732	Drains for sinks, spouts and appliances	Bracket	37	97093VB	40 X 1 1/2	171339	0.08259
983892	Drains for sinks, spouts and appliances	Moulded T	79	97098VB	1 1/2	197216	0.17634
984352	Drains for sinks, spouts and appliances	Street elbow	82	97095VB	1 1/2 X 40 X 245	275198	0.18304
984722	Drains for sinks, spouts and appliances	Intermediate piece	39	9758	1 1/2 X 1 1/2 X 25	128869	0.08705
984802	Drains for sinks, spouts and appliances	Bracket	120	97071VB	1 1/2 X 600	133009	0.26786
984812	Drains for sinks, spouts and appliances	Bracket	84	97072VB	1 1/2	157203	0.18750
984822	Drains for sinks, spouts and appliances	Moulded T	128	97073VB	1 1/2 X 600	131944	0.28571
985082	Drains for sinks, spouts and appliances	Intermediate piece	32	97602	34	312008	0.07143
985392	Drains for sinks, spouts and appliances	Drain and overflow set	296	786071	1 1/2 X 70 X 1 1/2	113971	0.66071
985402	Drains for sinks, spouts and appliances	Assembly group Street elbow	124	786071 880	1 1/2 X 1 1/2	105785	0.27679

985843	Drains for sinks, spouts and appliances	Assembly group Basket valve	256.5	97128 961	1 1/2	127541	0.57254
986502	Drains for sinks, spouts and appliances	Drain connection	414	97161KU	1 1/2 X 50	123215	0.92411
987243	Drains for sinks, spouts and appliances	Sieve	48	97173VB	51	160272	0.10714
987293	Drains for sinks, spouts and appliances	Sieve	44	97174VB	51	163334	0.09821
987303	Drains for sinks, spouts and appliances	Sieve	60	97175VB	80	149291	0.13393
987613	Drains for sinks, spouts and appliances	Street elbow	80	97180VB	60	165437	0.17857
988342	Drains for sinks, spouts and appliances	Assembly group Overflow	40	97336 803	30	279684	0.08929

Drains for urinals

Material no.	System	Material short text ENG	Weight [g]	Model no.	Dimensions	Item no.	Conversion factor
313757	Drains for urinals	Urinal bell	270	3227132	50 X 32 (1 1/4)	108878	0.51429
313792	Drains for urinals	Suction mold	179	32334	50 X 50 X 5	654269	0.34095
313837	Drains for urinals	Outlet pipe	246	32274	32 X 500	114794	0.46857
313847	Drains for urinals	Outlet pipe	390	32274	37 X 500	135140	0.74286
314002	Drains for urinals	Connection elbow	148.6	3228	50 X 50	108212	0.28305
314007	Drains for urinals	Connection elbow	186.3	3228	50 X 50	132644	0.35486
316532	Drains for urinals	Connection piece	69.8	3229	50 X 50 X 130	106249	0.13295
316542	Drains for urinals	Connection piece	84	3229	65 X 50 X 130	117610	0.16000
317002	Drains for urinals	Suction mold	570	32333VB	-	712112	1.08571
317022	Drains for urinals	Suction mold	97.1	32390VB	-	712136	0.18495
317352	Drains for urinals	Suction mold	217	3233	50	109271	0.41333
317402	Drains for urinals	Suction mold	192	32331	50	104993	0.36571
317432	Drains for urinals	Suction mold	150	32332	50	490300	0.28571
317502	Drains for urinals	Suction mold	518	3235	50 X 50	119430	0.98667
317552	Drains for urinals	Suction mold	163	32331ID	50	602567	0.31048
317722	Drains for urinals	Suction mold	176	32337ID	50	640361	0.33524
317752	Drains for urinals	Suction mold	173	32338	50	492458	0.32952

317802	Drains for urinals	Suction mold	162	32339	50	492465	0.30857
738952	Drains for urinals	Connection piece	75	3229VB	50 X 50 X 130	704452	0.14286
849738	Drains for urinals	Suction mold	162.5	32332VB	50	639297	0.30952
849748	Drains for urinals	Suction mold	174	32337VB	50	639303	0.33143
857042	Drains for urinals	Suction mold	155	97731LN	SPARE PART	765507	0.29524
857072	Drains for urinals	Suction mold	343	97734LN	1L SPARE PART	765521	0.65333
857082	Drains for urinals	Suction mold	282	97735LN	WATERLESS	765538	0.53714
857132	Drains for urinals	Screw connection	144	97738LN	50/40	765859	0.27429
857142	Drains for urinals	Screw connection	150	97739LN	40	765866	0.28571
870142	Drains for urinals	Lower part of housing	332	98042LN	102 X 50	800666	0.63238
870152	Drains for urinals	Suction mold	72.4	98044LN	78.6 x 135.5	800673	0.13790
870162	Drains for urinals	Insert	40	98045LN	78.6	800680	0.07619
870172	Drains for urinals	Outlet pipe	40	98047LN	40 X 170	800697	0.07619
870182	Drains for urinals	Outlet pipe	52	98048LN	50 X 170	800703	0.09905
975113	Drains for urinals	Sieve	75.1	96519VB	-	114633	0.14305
978202	Drains for urinals	Suction mold	227	96576KE	50	268893	0.43238
985637	Drains for urinals	Connection set	355	97822	DN50	126797	0.67619

Drains for washbasins and bidets

Material no.	System	Material short text ENG	Weight [g]	Model no.	Dimensions	Item no.	Conversion factor
313787	Drains for washbasins and bidets	Connection elbow	115	32272	32 X 100/100	120627	0.14110
368312	Drains for washbasins and bidets	Drain trap	800	3741	110	150419	0.98160
379007	Drains for washbasins and bidets	Verlängerungsrohr	50.6	3894	28 X 125	107383	0.06209
384641	Drains for washbasins and bidets	Shaft valve	443	3932	1 1/2X1 1/4X70X70	130695	0.54356
384651	Drains for washbasins and bidets	Shaft valve	661	3932	2 X 1 1/2 X 80X70	140359	0.81104
384851	Drains for washbasins and bidets	Valve lower part	290	3932 667	1 1/2 X 70 X 40	144784	0.35583
384857	Drains for washbasins and bidets	Valve lower part	304	3932 667	1 1/2 X 70 X 40	129804	0.37301
384897	Drains for washbasins and bidets	Valve lower part	530	3932 667	2 X 80 X 70	152802	0.65031
385036	Drains for washbasins and bidets	Valve lower part	468	39322	2 X 80 X 40	114398	0.57423
420197	Drains for washbasins and bidets	Standpipe, complete	174	451 603	1 1/2 X 300	208622	0.21350
422537	Drains for washbasins and bidets	Standpipe, complete	197	451 603	1 1/2 X 350	175108	0.24172
422807	Drains for washbasins and bidets	Standpipe, complete	80,4	441 603	1 1/4 X 120	132682	0.09865
422817	Drains for washbasins and bidets	Standpipe, complete	90	441 603	1 1/4 X 140	159108	0.11043
422827	Drains for washbasins and bidets	Standpipe, complete	93.6	441 603	1 1/4 X 175	147082	0.11485
422857	Drains for washbasins and bidets	Standpipe, complete	123.8	441 603	1 1/4 X 250	108861	0.15190
422907	Drains for washbasins and bidets	Standpipe, complete	85	451 603	1 1/2 X 120	123864	0.10429
422917	Drains for washbasins and bidets	Standpipe, complete	93.4	451 603	1 1/2 X 140	142193	0.11460
422927	Drains for washbasins and bidets	Standpipe, complete	109	451 603	1 1/2 X 175	145484	0.13374

422937	Drains for washbasins and bidets	Standpipe, complete	119.2	451 603	1 1/2 X 200	140045	0.14626
422947	Drains for washbasins and bidets	Standpipe, complete	136	451 603	1 1/2 X 225	148263	0.16687
422977	Drains for washbasins and bidets	Standpipe, complete	145	451 603	1 1/2 X 250	124915	0.17791
436103	Drains for washbasins and bidets	Standpipe valve	207	435	1 1/4	398231	0.25399
442507	Drains for washbasins and bidets	Standpipe valve	341	441	1 1/4X60X70X120	115784	0.41840
447401	Drains for washbasins and bidets	Valve lower part	215	45 667	1 1/4 X 60 X 70	177270	0.26380
447407	Drains for washbasins and bidets	Valve lower part	219	45 667	1 1/4 X 60 X 70	109844	0.26871
447417	Drains for washbasins and bidets	Valve lower part	207	45 667	1 1/4 X 70 X 40	132095	0.25399
447437	Drains for washbasins and bidets	Valve lower part	231	45 667	11/2X70X40	122492	0.28344
447447	Drains for washbasins and bidets	Valve lower part	311	45 667	1 1/2 X 70 X 70	126605	0.38160
447457	Drains for washbasins and bidets	Valve lower part	235	45 667	1 1/2 X 70 X 40	116910	0.28834
502606	Drains for washbasins and bidets	Universal valve	126.8	5121	1 1/4 X 60 (55)	129286	0.15558
502682	Drains for washbasins and bidets	Universal valve	120	5121	1 1/4 X 60 (55)	118679	0.14724
502753	Drains for washbasins and bidets	Universal valve	119	5121	1 1/4 X 60 (55)	100261	0.14601
503873	Drains for washbasins and bidets	Universal valve	155.5	512115	1 1/4 X 60 (80)	119393	0.19080
503929	Drains for washbasins and bidets	Universal valve	123	5121	1 1/4 X 60 (55)	310653	0.15092
504873	Drains for washbasins and bidets	Universal valve	110	5125	1 1/4 X 60	104337	0.13497
513337	Drains for washbasins and bidets	Shaft valve	205.6	52121	1 1/4 X 60 X 70	113513	0.25227
514687	Drains for washbasins and bidets	Shaft valve	200	52161	1 1/4 X 60 X 70	112936	0.24540
516097	Drains for washbasins and bidets	Shaft valve	205	5222	1 1/4 X 60 X 70	102296	0.25153

516117	Drains for washbasins and bidets	Shaft valve	224	522205	1 1/4 X 70	119003	0.27485
516157	Drains for washbasins and bidets	Shaft valve	190	52221	1 1/4 X 60 X 70	111861	0.23313
517139	Drains for washbasins and bidets	Shaft valve	176.8	52261	1 1/4 X 60 X 70	310554	0.21693
517482	Drains for washbasins and bidets	Shaft valve	189	52261	1 1/4 X 60 X 70	131487	0.23190
517487	Drains for washbasins and bidets	Shaft valve	176	52261	1 1/4 X 60 X 70	116637	0.21595
527007	Drains for washbasins and bidets	Shaft valve	220	5413	1 1/4 X 60 X 50	433703	0.26994
527017	Drains for washbasins and bidets	Shaft valve	350	5413	1 1/4 X 60 X 80	433710	0.42945
527027	Drains for washbasins and bidets	Shaft valve	275	5414	1 1/4 X 60 X 70	439040	0.33742
528017	Drains for washbasins and bidets	Shaft valve Visign V1	374	5430	1 1/4 X 63 X 75	492557	0.45890
528027	Drains for washbasins and bidets	Shaft valve Visign V1	325	5430	1 1/4 X 63 X 50	492571	0.39877
528057	Drains for washbasins and bidets	Shaft valve Visign V1	355	5431	1 1/4 X 63 X 75	492564	0.43558
528067	Drains for washbasins and bidets	Shaft valve Visign V1	297.1	5431	1 1/4 X 63 X 50	492588	0.36454
528107	Drains for washbasins and bidets	Shaft valve Visign V1	335.8	5432	1 1/4 X 63 X 75	492595	0.41202
528157	Drains for washbasins and bidets	Shaft valve Visign V1	330	5433	1 1/4 X 63 X 75	492601	0.40491
528607	Drains for washbasins and bidets	Universal valve Visign V1	349	5438	1 1/4 X 63	492670	0.42822
528707	Drains for washbasins and bidets	Bottle syphon	187.5	5420	1 1/4	470081	0.23006
528757	Drains for washbasins and bidets	Universal valve Visign V1	312.4	5439	1 1/4 X 63	492687	0.38331
528807	Drains for washbasins and bidets	Universal valve	389.2	5440	VISIGN V2-1 1/4X63	492793	0.47755
528857	Drains for washbasins and bidets	Universal valve	416.8	5441	VISIGN V2-1 1/4X63	492809	0.51141
528957	Drains for washbasins and bidets	Bottle syphon	322	5421	1 1/4	472528	0.39509

539067	Drains for washbasins and bidets	Street elbow	198	5611 101	38 X 200	126681	0.24294
539097	Drains for washbasins and bidets	Street elbow	101	5611 101	32 X 175	116828	0.12393
539117	Drains for washbasins and bidets	Street elbow	132	5611 101	32 X 250	105860	0.16196
539127	Drains for washbasins and bidets	Street elbow	152	5611 101	32 X 300	105594	0.18650
539137	Drains for washbasins and bidets	Plus siphon	430	56115R	1 1/4 X 1 1/4	725938	0.52761
539147	Drains for washbasins and bidets	Bottle syphon	535	5753R	1 1/4 X 1 1/4	725945	0.65644
539277	Drains for washbasins and bidets	Floor pipe	427	5611 147	32 X 680	116149	0.52393
539437	Drains for washbasins and bidets	Floor pipe	674	56111 147	38 X 680	130978	0.82699
539667	Drains for washbasins and bidets	Assembly group Accessories	44.5	5611 90C	1 1/4	107598	0.05460
539897	Drains for washbasins and bidets	Tubular drain trap	345	5611R	1 1/4 X 1 1/4	103286	0.42331
539907	Drains for washbasins and bidets	Tubular drain trap	340	5611GC	1 1/4 X 1 1/4	101138	0.41718
540057	Drains for washbasins and bidets	Tubular drain trap	340	5611ID	1 1/4 X 1 1/4	104528	0.41718
540087	Drains for washbasins and bidets	Tubular drain trap	340	5611	1 1/4 X 1 1/4	305611	0.41718
540097	Drains for washbasins and bidets	Tubular drain trap	556	5611	1 1/4 X 1 1/2	123451	0.68221
540107	Drains for washbasins and bidets	Tubular drain trap	561	5611	1 1/2 X 1 1/2	122515	0.68834
540122	Drains for washbasins and bidets	Tubular drain trap	200	5611K	1 1/4 X 32	105952	0.24540
540171	Drains for washbasins and bidets	Plus siphon	362.75	56115	1 1/4 X 1 1/4	818142	0.44509
540287	Drains for washbasins and bidets	Tubular drain trap	248	56110	1 1/4 X 1 1/4	125073	0.30429
540307	Drains for washbasins and bidets	Tubular drain trap	432.4	56110	1 1/2 X 1 1/2	121549	0.53055
540312	Drains for washbasins and bidets	Tubular drain trap	225	5611K	1 1/4 X 40	406462	0.27607

540437	Drains for washbasins and bidets	Street elbow	152	561101	32 X 175	126162	0.18650
540457	Drains for washbasins and bidets	Street elbow	186	561101	32 X 250	119942	0.22822
540467	Drains for washbasins and bidets	Street elbow	211.4	561101	32 X 300	130848	0.25939
541037	Drains for washbasins and bidets	Tubular drain trap	276.4	561123	1 1/4 X 32	138295	0.33914
541077	Drains for washbasins and bidets	Tubular drain trap	586	561102	1 1/4X1 1/4X240	109950	0.71902
541097	Drains for washbasins and bidets	Adjustment pipe	291	561103	1 1/4 X 240	121709	0.35706
541257	Drains for washbasins and bidets	Plus siphon	375.3	56116	1 1/4 X 1 1/4	445577	0.46049
541309	Drains for washbasins and bidets	Plus siphon	458	56115	1 1/4 X 1 1/4	310226	0.56196
541407	Drains for washbasins and bidets	Tubular drain trap	366	561151	1 1/4 X 32	803803	0.44908
541517	Drains for washbasins and bidets	Drain trap	685	56353	40 / 50	636364	0.84049
541537	Drains for washbasins and bidets	Tubular drain trap	335	5611PM	1 1/4 X 1 1/4	640385	0.41104
541547	Drains for washbasins and bidets	Plus siphon	407	56115PM	1 1/4 X 1 1/4	640392	0.49939
541597	Drains for washbasins and bidets	Tubular drain trap	338	56118GH	1 1/4	825997	0.41472
541606	Drains for washbasins and bidets	Plus siphon	381	56115	1 1/4 X 1 1/4	125165	0.46748
541627	Drains for washbasins and bidets	Tubular drain trap	394.1	561129	1 1/4 X 32	128883	0.48356
541662	Drains for washbasins and bidets	Plus siphon	385.2	56115	1 1/4 X 1 1/4	108939	0.47264
541667	Drains for washbasins and bidets	Plus siphon	404	56115	1 1/4 X 1 1/4	101572	0.49571
541707	Drains for washbasins and bidets	Tubular drain trap	480	56119	1 1/4X1 1/4X120	124823	0.58896
541727	Drains for washbasins and bidets	Tubular drain trap	357	5611913	1 1/4 X 120	160906	0.43804
541797	Drains for washbasins and bidets	Tubular drain trap	409	5611917	1 1/4 X 1 1/4	193638	0.50184

541807	Drains for washbasins and bidets	Tubular drain trap	461	5612	1 1/4 X 1 1/4 X 60	111298	0.56564
541817	Drains for washbasins and bidets	Tubular drain trap	372	5611916	1 1/4 X 1 1/4	193645	0.45644
541887	Drains for washbasins and bidets	Tubular drain trap	361	56120	1 1/4 X 1 1/4	120696	0.44294
541903	Drains for washbasins and bidets	Drain valve	139.5	562122	1 1/4 X 60	439170	0.17117
541927	Drains for washbasins and bidets	Street elbow	224	562124	1 1/4 X 350	575588	0.27485
542067	Drains for washbasins and bidets	Connection piece	630.5	56171LN	32	781453	0.77362
542332	Drains for washbasins and bidets	Drain trap	236	563415	1 1/4 X 32/40	804688	0.28957
542407	Drains for washbasins and bidets	Drain trap	230	56355	40/50	364588	0.28221
542502	Drains for washbasins and bidets	Drain trap	157	5636	40	364625	0.19264
542567	Drains for washbasins and bidets	Drain trap	568	56331	1 1/4 X 50 / 40	553753	0.69693
542602	Drains for washbasins and bidets	Drain trap	179	56361	40/50	364687	0.21963
542712	Drains for washbasins and bidets	Drain trap	456	56332	1 1/4 X 50 / 40	553760	0.55951
542807	Drains for washbasins and bidets	Drain trap	1027	56351	40 / 50	369156	1.26012
542867	Drains for washbasins and bidets	Drain trap	1330	56352	40 / 50	369217	1.63190
542872	Drains for washbasins and bidets	Drain trap	229	563416	1 1/4 X 32/46	820466	0.28098
542882	Drains for washbasins and bidets	Drain trap	241	56341GS	1 1/4 X 32/40	826871	0.29571
542902	Drains for washbasins and bidets	Drain trap	236	56341VB	1 1/4 X 32/40	827564	0.28957
542917	Drains for washbasins and bidets	Moulded T	380	5617	1 1/4 X 32 X 250	120573	0.46626
542927	Drains for washbasins and bidets	Moulded T	260	5617156	1 1/4 X 1 1/2	134914	0.31902
543002	Drains for washbasins and bidets	Drain trap	231	56357	1 X 40/50	452452	0.28344

543017	Drains for washbasins and bidets	Drain trap	406	56333	1 1/4 X 50/40	553777	0.49816
543202	Drains for washbasins and bidets	Tubular drain trap	208	5536	1 1/4 X 40	406486	0.25521
543372	Drains for washbasins and bidets	Tubular drain trap	172	5536	1 1/4 X 32	218980	0.21104
543517	Drains for washbasins and bidets	Tubular drain trap	430	55354	1 1/4 X 1 1/4	440152	0.52761
543587	Drains for washbasins and bidets	Tubular drain trap	310	55359GH	1 1/4 X 1 1/4	826475	0.38037
543857	Drains for washbasins and bidets	Tubular drain trap	315	5535	1 1/4 X 280	124663	0.38650
543967	Drains for washbasins and bidets	Tubular drain trap	330	55355VB	1 1/4 X 1 1/4	134044	0.40491
543987	Drains for washbasins and bidets	Tubular drain trap	290	5535	1 1/4 X 1 1/4	103781	0.35583
544007	Drains for washbasins and bidets	Tubular drain trap	318.4	5535ID	1 1/4 X 1 1/4	122850	0.39067
544137	Drains for washbasins and bidets	Street elbow	194.56	56222	1 1/4 X 32 X 255	407230	0.23872
544282	Drains for washbasins and bidets	Assembly group Drain trap	145	5621 800	40	161880	0.17791
544302	Drains for washbasins and bidets	Drain trap	1182	56211	1 1/4 X 50/40	119249	1.45031
544327	Drains for washbasins and bidets	Assembly group Street elbow	308	56211 880	1 1/4 X 32	119263	0.37791
544347	Drains for washbasins and bidets	Assembly group Street elbow	167.4	56211 880	34.5 x 32 x 255	177928	0.20540
544747	Drains for washbasins and bidets	Verlängerungsrohr	58.8	5694	32 X 125	102647	0.07215
544807	Drains for washbasins and bidets	Sleeve	29	5695	32	102371	0.03558
544837	Drains for washbasins and bidets	Verlängerungsrohr	99	56945	32 X 125	115524	0.12147
545122	Drains for washbasins and bidets	Drain trap	238	56341GC	1 1/4 X 32/40	827892	0.29202
545507	Drains for washbasins and bidets	Plus siphon	407	56115GC	1 1/4 X 1 1/4	643232	0.49939
545517	Drains for washbasins and bidets	Tubular drain trap	289	5535GC	1 1/4 X 1 1/4	643249	0.35460

547457	Drains for washbasins and bidets	Pipe	99.7	5753 542	32 X 200	104627	0.12233
547467	Drains for washbasins and bidets	Pipe	119	5753 542	32 X 250	112240	0.14601
547477	Drains for washbasins and bidets	Pipe	139.8	5753 542	32 X 300	111113	0.17153
547507	Drains for washbasins and bidets	Pipe	317.6	5753 542	32 X 700	121730	0.38969
550677	Drains for washbasins and bidets	Assembly group Adjustment pipe	109.2	5754 876	1 1/4	124731	0.13399
556202	Drains for washbasins and bidets	Bottle syphon	155	5725	1 1/4 X 1 1/4	108694	0.19018
556222	Drains for washbasins and bidets	Bottle syphon	190	5725	1 1/4 X 1 1/2	151560	0.23313
556252	Drains for washbasins and bidets	Bottle syphon	186	5725	1 1/2 X 1 1/2	119270	0.22822
556272	Drains for washbasins and bidets	Bottle syphon	125	57250	1 1/4 X 1 1/4	120764	0.15337
556282	Drains for washbasins and bidets	Bottle syphon	157.5	57250	1 1/2 X 1 1/2	130558	0.19325
556312	Drains for washbasins and bidets	Bottle syphon	111.5	57252	1 1/4 X 1 1/4	101992	0.13681
556322	Drains for washbasins and bidets	Bottle syphon	135	57252	1 1/4 X 1 1/2	137755	0.16564
556372	Drains for washbasins and bidets	Bottle syphon	106	57253	1 1/4 X 1 1/2	401429	0.13006
556392	Drains for washbasins and bidets	Bottle syphon	71	572528	1 1/4 X 1 1/4	266677	0.08712
556432	Drains for washbasins and bidets	Bottle syphon	135	57252	1 1/2 X 1 1/2	103149	0.16564
556512	Drains for washbasins and bidets	Bottle syphon	162	5725911	1 1/4 X 1 1/4	109363	0.19877
556522	Drains for washbasins and bidets	Bottle syphon	198	5725911	1 1/2 X 1 1/2	108991	0.24294
556542	Drains for washbasins and bidets	Bottle syphon	245	5725912	1 1/4 X 1 1/4	110321	0.30061
556582	Drains for washbasins and bidets	Bottle syphon	289	5725916	1 1/2 X 1 1/2	121907	0.35460
556622	Drains for washbasins and bidets	Bottle syphon	256	572594	50 X 40	112271	0.31411

556692	Drains for washbasins and bidets	Bottle syphon	196	5726UA	1 1/4 X 1 1/4	573966	0.24049
556722	Drains for washbasins and bidets	Bottle syphon	187	57256	1 1/4 X 1 1/4	724528	0.22945
556972	Drains for washbasins and bidets	Bottle syphon	281	5726	1 1/2 X 1 1/2	137182	0.34479
557132	Drains for washbasins and bidets	Bottle syphon	196	5726	1 1/4 X 1 1/4	103927	0.24049
557142	Drains for washbasins and bidets	Bottle syphon	233	5726	1 1/4 X 1 1/2	309312	0.28589
557212	Drains for washbasins and bidets	Bottle syphon	162	57262	1 1/4 X 1 1/4	108014	0.19877
557222	Drains for washbasins and bidets	Bottle syphon	173	57260	1 1/4 X 1 1/4	102531	0.21227
557292	Drains for washbasins and bidets	Bottle syphon	202	57269	1 1/4 X 250	116842	0.24785
557322	Drains for washbasins and bidets	Bottle syphon	251	572651	1 1/4 X 1 1/2	335373	0.30798
557482	Drains for washbasins and bidets	Bottle syphon	171	57272	1 1/2 X 40	112752	0.20982
557492	Drains for washbasins and bidets	Drain trap	221	57273	1 1/4 X 1 1/4	366773	0.27117
557522	Drains for washbasins and bidets	Bottle syphon	202	5727	1 1/4 X 1 1/4	326319	0.24785
557552	Drains for washbasins and bidets	Bottle syphon	200	5730	1 1/4X32X220X250	128913	0.24540
558597	Drains for washbasins and bidets	Drain set	205	54208	1 1/4 X 32	707354	0.25153
561221	Drains for washbasins and bidets	Bottle syphon	540	5753	1 1/4 X 1 1/4	818173	0.66258
561287	Drains for washbasins and bidets	Drain trap	655	575395	1 1/4 X 60	465650	0.80368
561507	Drains for washbasins and bidets	Bottle syphon	590	57531	1 1/4 X 300	365868	0.72393
561657	Drains for washbasins and bidets	Bottle syphon	543	5753	1 1/4 X 1 1/4	100674	0.66626
561777	Drains for washbasins and bidets	Bottle syphon	415	57532	1 1/4 X 1 1/4	105082	0.50920
561827	Drains for washbasins and bidets	Bottle syphon	530	5753GC	1 1/4 X 1 1/4	104085	0.65031

561947	Drains for washbasins and bidets	Bottle syphon	725.2	575302	1 1/4X1 1/4X240	125455	0.88982
561957	Drains for washbasins and bidets	Bottle syphon	838.4	575309	1 1/4	148355	1.02871
561977	Drains for washbasins and bidets	Bottle syphon	735	5753771	1 1/2 X 1 1/4	132675	0.90184
562017	Drains for washbasins and bidets	Outlet pipe	132	575301	32 X 200	117764	0.16196
562037	Drains for washbasins and bidets	Outlet pipe	182	575301	32 X 300	132248	0.22331
562117	Drains for washbasins and bidets	Bottle syphon	550	5753904	1 1/4 X 120	122157	0.67485
562147	Drains for washbasins and bidets	Bottle syphon	430	57530	1 1/4 X 1 1/4	106164	0.52761
562157	Drains for washbasins and bidets	Bottle syphon	583	5753905	1 1/4 X 120	110147	0.71534
562293	Drains for washbasins and bidets	Bottle syphon	610	57539IA	1 1/4	806378	0.74847
562327	Drains for washbasins and bidets	Bottle syphon	653	5754	1 1/4 X 1 1/4	102845	0.80123
562447	Drains for washbasins and bidets	Bottle syphon	475.8	57542	1 1/4 X 1 1/4	105631	0.58380
562677	Drains for washbasins and bidets	Bottle syphon	535	57540	1 1/4 X 1 1/4	102555	0.65644
562787	Drains for washbasins and bidets	Bottle syphon	651	5754905	1 1/4 X 1 1/4	115647	0.79877
562807	Drains for washbasins and bidets	Bottle syphon	653	5755	1 1/4 X 1 1/4	366681	0.80123
562827	Drains for washbasins and bidets	Bottle syphon	677	5756	1 1/4 X 150	456580	0.83067
562857	Drains for washbasins and bidets	Bottle syphon	531	57550	1 1/4 X 1 1/4	366704	0.65153
562927	Drains for washbasins and bidets	Bottle syphon	496	5555	1 1/4X1 1/4X200	114619	0.60859
562987	Drains for washbasins and bidets	Bottle syphon	375	55552	1 1/4 X 1 1/4	111786	0.46012
563097	Drains for washbasins and bidets	Bottle syphon	515	5555	1 1/4X1 1/4X250	116941	0.63190
563102	Drains for washbasins and bidets	Bottle syphon	145	5555K	1 1/4 X 1 1/4	120337	0.17791

563212	Drains for washbasins and bidets	Bottle syphon	102	55552K	1 1/4 X 1 1/4	104023	0.12515
563287	Drains for washbasins and bidets	Drain trap	610	555595	1 1/4 X 60	465667	0.74847
563392	Drains for washbasins and bidets	Drain trap	133	55559AZ	1 1/4 X 32	607951	0.16319
565011	Drains for washbasins and bidets	Elbow	116.2	5698	32 X 32 X 45°	701369	0.14258
565217	Drains for washbasins and bidets	Bottle syphon	768	5763	1 1/4 X 1 1/2	114213	0.94233
565227	Drains for washbasins and bidets	Bottle syphon	713	5763	1 1/2 X 1 1/2	125844	0.87485
565377	Drains for washbasins and bidets	Bottle syphon	550	57632	1 1/4 X 1 1/2	133344	0.67485
565387	Drains for washbasins and bidets	Bottle syphon	612	57632	1 1/2 X 1 1/2	133122	0.75092
565937	Drains for washbasins and bidets	Bottle syphon	598	57630	1 1/2 X 1 1/2	125127	0.73374
566547	Drains for washbasins and bidets	Bottle syphon	786.1	57640	1 1/2 X 1 1/2	127619	0.96454
566762	Drains for washbasins and bidets	Bottle syphon	195	5726PL	1 1/4 X 1 1/4	703110	0.23926
566852	Drains for washbasins and bidets	Bottle syphon	151	5725PL	1 1/4 X 1 1/4	703219	0.18528
566887	Drains for washbasins and bidets	Drain trap	584	56331PL	1 1/4 X 50 / 40	703240	0.71656
566912	Drains for washbasins and bidets	Bottle syphon	145	5555KPL	1 1/4 X 1 1/4	703288	0.17791
566992	Drains for washbasins and bidets	Bottle syphon	194	5727PL	1 1/4 X 1 1/4	703349	0.23804
567013	Drains for washbasins and bidets	Universal valve	110	5125PL	1 1/4 X 60	703356	0.13497
567023	Drains for washbasins and bidets	Universal valve	116.5	5121PL	1 1/4 X 60 (55)	703363	0.14294
567907	Drains for washbasins and bidets	Pipe	112.4	5763 542	40 X 200	126391	0.13791
567937	Drains for washbasins and bidets	Pipe	231.8	5763 542	40 X 400	143954	0.28442
571847	Drains for washbasins and bidets	Outlet pipe	472	5792 111	32 X 220 X 750	335199	0.57914

571867	Drains for washbasins and bidets	Outlet pipe	205	5792 111	32 X 130 X 250	127930	0.25153
571887	Drains for washbasins and bidets	Outlet pipe	248	5792 111	32 X 220 X 250	114718	0.30429
571927	Drains for washbasins and bidets	Outlet pipe	379	5792 111	32 X 220 X 580	110710	0.46503
571957	Drains for washbasins and bidets	Outlet pipe	436	5792 111	32 X 220 X 680	102654	0.53497
571977	Drains for washbasins and bidets	Outlet pipe	608	5792 111	40 X 220 X 580	125424	0.74601
571987	Drains for washbasins and bidets	Outlet pipe	694	5792 111	40 X 220 X 680	136376	0.85153
573857	Drains for washbasins and bidets	Bottle syphon	683	57554	1 1/4 X 250	639969	0.83804
573862	Drains for washbasins and bidets	Bottle syphon	163	57254	1 1/4 X 250	639976	0.20000
576407	Drains for washbasins and bidets	Drain set	385	5815586	1 1/4 X 60	317003	0.47239
578007	Drains for washbasins and bidets	Eleganta 1	805	5788	1 1/4	440190	0.98773
578877	Drains for washbasins and bidets	Eleganta Set 1	1,275.4	57884	1 1/4	492489	1.56491
579007	Drains for washbasins and bidets	Outlet pipe	229	578870	32 X 460	595289	0.28098
588224	Drains for washbasins and bidets	Pipe	152	5973	1 1/4 X 32	117788	0.18650
588234	Drains for washbasins and bidets	Pipe	128	5973	1 1/2 X 40	119379	0.15706
616062	Drains for washbasins and bidets	Drain trap	353	98371VB	1 1/4 X 32	695804	0.43313
641897	Drains for washbasins and bidets	Tubular drain trap	339	5611DI	1 1/4 X 1 1/4	615178	0.41595
641907	Drains for washbasins and bidets	Plus siphon	403	56115DI	1 1/4 X 1 1/4	615185	0.49448
641917	Drains for washbasins and bidets	Bottle syphon	539	5753DI	1 1/4 X 1 1/4	615208	0.66135
641927	Drains for washbasins and bidets	Tubular drain trap	290	5535DI	1 1/4 X 1 1/4	615192	0.35583
684783	Drains for washbasins and bidets	Flanged tube	140	9945 143	32 X 300	827106	0.17178

696532	Drains for washbasins and bidets	Tubular drain trap	174	5536PL	1 1/4 X 1 1/4	703417	0.21350
703191	Drains for washbasins and bidets	Drain valve	190	7122	1 1/2 X 80	103385	0.23313
703211	Drains for washbasins and bidets	Drain valve	208.5	7122	2 X 80	116354	0.25583
703691	Drains for washbasins and bidets	Drain valve	226	712215	1 1/2 X 80	120177	0.27730
713582	Drains for washbasins and bidets	Bottle syphon	349	57266WT	1 1/4 X 1 1/4	657574	0.42822
725682	Drains for washbasins and bidets	Tubular drain trap	306	79853LR	50 X 50	703554	0.37546
740247	Drains for washbasins and bidets	Tubular drain trap	542.8	5611IN	1 1/4 X 300	704872	0.66601
740321	Drains for washbasins and bidets	Drain valve	172	7532M	1 1/2 X 70	113049	0.21104
741327	Drains for washbasins and bidets	Tubular drain trap	336	5611RF	1 1/4 X 1 1/4	676612	0.41227
741337	Drains for washbasins and bidets	Tubular drain trap	406	56115RF	1 1/4 X 1 1/4	676629	0.49816
747127	Drains for washbasins and bidets	Tubular drain trap	335	5611SB	1 1/4 X 1 1/4	669522	0.41104
747137	Drains for washbasins and bidets	Tubular drain trap	405	56115SB	1 1/4 X 1 1/4	669539	0.49693
747147	Drains for washbasins and bidets	Bottle syphon	537	5753SB	1 1/4 X 1 1/4	669546	0.65890
747157	Drains for washbasins and bidets	Tubular drain trap	290	5535SB	1 1/4 X 1 1/4	669553	0.35583
748952	Drains for washbasins and bidets	Tubular drain trap	296.5	798517	1 1/2 X 40/50	694159	0.36380
748962	Drains for washbasins and bidets	Tubular drain trap	273	798532	1 1/2 X 50	694166	0.33497
754921	Drains for washbasins and bidets	Assembly group Valve	166.3	7711 817	1 1/2 X 70	120306	0.20405
755777	Drains for washbasins and bidets	Standpipe, complete	159	451 603	1 1/2 X 275	240554	0.19509
755787	Drains for washbasins and bidets	Standpipe, complete	187	451 603	1 1/2 X 325	237363	0.22945
755807	Drains for washbasins and bidets	Standpipe valve	297	7721	1 1/2 X 70 X 175	127442	0.36442

755817	Drains for washbasins and bidets	Standpipe valve	197	7721	1 1/2 X 70 X 200	137380	0.24172
755827	Drains for washbasins and bidets	Standpipe valve	336	7721 1V	1 1/2 X 70 X 225	131852	0.41227
755837	Drains for washbasins and bidets	Standpipe valve	382	7721 1V	1 1/2 X 70 X 275	123949	0.46871
755847	Drains for washbasins and bidets	Standpipe valve	424	7721 1V	1 1/2 X 70 X 325	132217	0.52025
755857	Drains for washbasins and bidets	Standpipe valve	439	7721 1V	1 1/2 X 70 X 350	139827	0.53865
755892	Drains for washbasins and bidets	Standpipe valve	171.5	7721	1 1/2 X 70 X 140	126032	0.21043
755937	Drains for washbasins and bidets	Standpipe valve	484.2	7721 1V	1 1/2 X 70 X 400WS	339746	0.59411
758837	Drains for washbasins and bidets	Outlet pipe	394	792 111	32 X 39 X 680	131104	0.48344
758957	Drains for washbasins and bidets	Outlet pipe	510	792 111	40 X 65 X 580	140465	0.62577
759142	Drains for washbasins and bidets	Space maker	291	97934LN	1 1/4 X 32	676872	0.35706
759772	Drains for washbasins and bidets	Drain set	479	7928520	1 1/2X40X160-570	124205	0.58773
759792	Drains for washbasins and bidets	Drain set	450	79285	1 1/2X40X160-570	119744	0.55215
759812	Drains for washbasins and bidets	Drain connection	434	792912	1 1/2X40X160-570	140977	0.53252
761562	Drains for washbasins and bidets	Tubular drain trap	297	98237	1 1/2 X 40/50	688165	0.36442
761712	Drains for washbasins and bidets	Drain valve	275	79114	1 1/2 X 40	110895	0.33742
761902	Drains for washbasins and bidets	Drain connection	335	7948520	1 1/2 X 40 X90-310	109585	0.41104
761922	Drains for washbasins and bidets	Drain connection	355	7948520	1 1/2 X 50 X90-310	107147	0.43558
761952	Drains for washbasins and bidets	Drain connection	322	79485	1 1/2 X 40 X90-310	108496	0.39509
761962	Drains for washbasins and bidets	Drain connection	345	79485	1 1/2 X 50 X90-310	110536	0.42331
766495	Drains for washbasins and bidets	Tubular drain trap	190	K5611K	1 1/4 X 32	779726	0.23313

766513	Drains for washbasins and bidets	Drain trap	220	K56357	1 X 40/50	779733	0.26994
766902	Drains for washbasins and bidets	Tubular drain trap	195	K7985	1 1/4 X 40	779740	0.23926
766913	Drains for washbasins and bidets	Tubular drain trap	200	K7985	1 1/2 X 40	779757	0.24540
766918	Drains for washbasins and bidets	Tubular drain trap	220	K7985	1 1/2 X 50	779764	0.26994
767422	Drains for washbasins and bidets	Tubular drain trap	250	79812	50 X 50	109349	0.30675
767492	Drains for washbasins and bidets	Tubular drain trap	305	79813	1 1/2 X 50	107253	0.37423
767582	Drains for washbasins and bidets	Tubular drain trap	195	7985	1 1/4 X 40	127978	0.23926
767782	Drains for washbasins and bidets	Tubular drain trap	200	7985	1 1/2 X 40	105716	0.24540
767792	Drains for washbasins and bidets	Tubular drain trap	220	7985	1 1/2 X 50	107888	0.26994
767812	Drains for washbasins and bidets	Tubular drain trap	219	7985217	1 1/2 X 40	279394	0.26871
768042	Drains for washbasins and bidets	Tubular drain trap	285	798560	1 1/2 X 40	129125	0.34969
768052	Drains for washbasins and bidets	Tubular drain trap	328	798560	1 1/2 X 50	129279	0.40245
768102	Drains for washbasins and bidets	Tubular drain trap	313	798570	1 1/2 X 40	111489	0.38405
768112	Drains for washbasins and bidets	Tubular drain trap	366	798570	1 1/2 X 50	109400	0.44908
768142	Drains for washbasins and bidets	Tubular drain trap	233	798520	1 1/4 X 50	115449	0.28589
768482	Drains for washbasins and bidets	Tubular drain trap	230	798520	1 1/4 X 40	113957	0.28221
768502	Drains for washbasins and bidets	Tubular drain trap	228	798520	1 1/2 X 40	104634	0.27975
768512	Drains for washbasins and bidets	Tubular drain trap	234	798520	1 1/2 X 50	102821	0.28712
768542	Drains for washbasins and bidets	Tubular drain trap	254	798520	2 X 50	115654	0.31166
768652	Drains for washbasins and bidets	Tubular drain trap	256	798530	1 1/4 X 50	118242	0.31411

768662	Drains for washbasins and bidets	Tubular drain trap	269	798530	1 1/2 X 40	101800	0.33006
768672	Drains for washbasins and bidets	Tubular drain trap	268	798530	1 1/2 X 50	101206	0.32883
768692	Drains for washbasins and bidets	Tubular drain trap	274	798530	2 X 50	116668	0.33620
768722	Drains for washbasins and bidets	Tubular drain trap	243	798530	1 1/4 X 40	114596	0.29816
768772	Drains for washbasins and bidets	Tubular drain trap	261	7985317	1 1/2 X 40	279387	0.32025
768972	Drains for washbasins and bidets	Tubular drain trap	245	7985817	1 1/2 X 40	121365	0.30061
769012	Drains for washbasins and bidets	Drain trap	234	79851VB	1 1/2 X 40	133030	0.28712
769052	Drains for washbasins and bidets	Tubular drain trap	303	798594	50 X 50	114640	0.37178
769062	Drains for washbasins and bidets	Tubular drain trap	284	798580	40	104047	0.34847
769072	Drains for washbasins and bidets	Tubular drain trap	297	798580	50	102593	0.36442
769142	Drains for washbasins and bidets	Tubular drain trap	290	798594	50 X 40	117771	0.35583
769202	Drains for washbasins and bidets	Funnel	136.5	7985945639	40 X 240	113698	0.16748
769212	Drains for washbasins and bidets	Funnel	81.5	7985946639	-	112554	0.10000
769302	Drains for washbasins and bidets	Tubular drain trap	234	798510	1 1/2 X 40	102449	0.28712
769312	Drains for washbasins and bidets	Tubular drain trap	252	798510	1 1/2 X 50	102838	0.30920
769352	Drains for washbasins and bidets	Tubular drain trap	287	798516	1 1/2 X 40/50	440237	0.35215
769362	Drains for washbasins and bidets	Tubular drain trap	298	7985945	40	111809	0.36564
769372	Drains for washbasins and bidets	Tubular drain trap	309	7985945	50	105181	0.37914
769422	Drains for washbasins and bidets	Tubular drain trap	201	7985117	1 1/2 X 40	119607	0.24663
769502	Drains for washbasins and bidets	Drain connection	467	798509	1 1/2 X 40	120054	0.57301

769532	Drains for washbasins and bidets	Tubular drain trap	280	798515	1 1/2 X 40/50	101633	0.34356
770072	Drains for washbasins and bidets	Tubular drain trap	189	7985018	40	127848	0.23190
770802	Drains for washbasins and bidets	Drain set	746	97242	1 1/2 X 40	640408	0.91534
796932	Drains for washbasins and bidets	Tubular drain trap	474	79857	1 1/2 X 50 X 700	604295	0.58160
800152	Drains for washbasins and bidets	Space maker	333	7850	1 1/2 X 40	104429	0.40859
800162	Drains for washbasins and bidets	Space maker	357	7850	1 1/2 X 50	104054	0.43804
800202	Drains for washbasins and bidets	Drain trap	368	78502	1 1/2 X 50	105877	0.45153
800242	Drains for washbasins and bidets	Tubular drain trap	359	7850917	1 1/2 X 40	134099	0.44049
801772	Drains for washbasins and bidets	Space maker	338	78503	1 1/2 X 40	605452	0.41472
801782	Drains for washbasins and bidets	Space maker	349	78503	1 1/2 X 50	605469	0.42822
804012	Drains for washbasins and bidets	Drain trap	354	97244	1 1/4 X 32	641696	0.43436
854372	Drains for washbasins and bidets	Drain trap	118.5	97458VI	1 1/4 X 1 1/2	736491	0.14540
855392	Drains for washbasins and bidets	Drain trap	292	98603NA	1 1/2 X 40/50	650513	0.35828
857062	Drains for washbasins and bidets	Tubular drain trap	374	97676	1 1/2 X 50	762094	0.45890
859112	Drains for washbasins and bidets	Bottle syphon	254	97810HV	-	784355	0.31166
862072	Drains for washbasins and bidets	Drain trap	186	99870	1 1/2 X 3/4 X 1	622282	0.22822
866182	Drains for washbasins and bidets	Tubular drain trap	279	5729	1 1/4 X 32	606220	0.34233
866192	Drains for washbasins and bidets	Tubular drain trap	310	5729	1 1/4 X 40	606237	0.38037
874232	Drains for washbasins and bidets	Drain trap	550	99320	1 1/2 X 50 X 700	570415	0.67485
879082	Drains for washbasins and bidets	Drain trap	240	97837KC	1 1/2 X 500	788711	0.29448

885052	Drains for washbasins and bidets	Bottle syphon	318	Z5725	1 1/2 X 1 1/2	720155	0.39018
891587	Drains for washbasins and bidets	Tubular drain trap	330	98854GS	1 1/4 X 1 1/4	485986	0.40491
913212	Drains for washbasins and bidets	Drain trap	145	98456	40 X 40/50	460341	0.17791
914502	Drains for washbasins and bidets	Drain trap	120	68871	1 1/2 X 40	120719	0.14724
922957	Drains for washbasins and bidets	Street elbow	160	98179	32 X 39 X 300	428051	0.19632
924847	Drains for washbasins and bidets	Tubular drain trap	351	98636GS	1 1/4 X 1 1/4	473686	0.43067
924857	Drains for washbasins and bidets	Tubular drain trap	425.7	98637GS	1 1/4 X 1 1/4	473693	0.52233
925182	Drains for washbasins and bidets	Drain trap	132.5	98217VI	1/2 X 1 1/2	438876	0.16258
946181	Drains for washbasins and bidets	Valve	270	98002	1 1/4 X 70 X 40	380465	0.33129
956440	Drains for washbasins and bidets	Pipe RG	11800	98075	33 x 3.5 x 4000	421335	14.47853
959801	Drains for washbasins and bidets	Verlängerungsrohr	86	98743GS	1 1/4 X 125	481377	0.10552
970067	Drains for washbasins and bidets	Valve body	135	98186KC	1 1/4 X 50	826888	0.16564
970752	Drains for washbasins and bidets	Drain set	260	96389	1 1/2	156121	0.31902
972617	Drains for washbasins and bidets	Assembly group Standpipe	71.6	96722 823	1 1/2 X 100	259006	0.08785
974444	Drains for washbasins and bidets	Valve body	1020	71381	2	133856	1.25153
975647	Drains for washbasins and bidets	Valve	397	96541OM	1 1/4	128562	0.48712
975717	Drains for washbasins and bidets	Drain valve	463	98551	1 1/4	124953	0.56810
982372	Drains for washbasins and bidets	Drain trap	233	96892	1 1/2 X 40	132972	0.28589
986077	Drains for washbasins and bidets	Valve lower part	232	97890	1 1/2 X 70 X 40	363246	0.28466
986747	Drains for washbasins and bidets	Space maker	746	97166	1 1/4 X 32	132361	0.91534

987517	Drains for washbasins and bidets	Outlet pipe	161	98760GS	1 1/4 X 300	481742	0.19755
988367	Drains for washbasins and bidets	Flanged tube	127.4	9945	32 X 250	171353	0.15632
988387	Drains for washbasins and bidets	Flanged tube	106	9945	32 X 200	117382	0.13006
988397	Drains for washbasins and bidets	Flanged tube	149	9945	32 X 300	137106	0.18282
988557	Drains for washbasins and bidets	Flanged tube	94	9945 143	32 X 200	100599	0.11534
988567	Drains for washbasins and bidets	Flanged tube	114.2	9945 143	32 X 250	101480	0.14012
988572	Drains for washbasins and bidets	Flanged tube	141	9945 143	32 X 300	125813	0.17301
988577	Drains for washbasins and bidets	Flanged tube	136	9945 143	32 X 300	102203	0.16687
988597	Drains for washbasins and bidets	Flanged tube	224.8	9945 143	32 X 500	128326	0.27583
988627	Drains for washbasins and bidets	Flanged tube	35.5	9945 143	32 X 75	121587	0.04356
988689	Drains for washbasins and bidets	Flanged tube	153.2	9945 143	32 X 300	310011	0.18798
988737	Drains for washbasins and bidets	Flanged tube	236.6	9945 143	38 X 300	142766	0.29031
988807	Drains for washbasins and bidets	Flanged tube	250	9945 143	40 X 300	131388	0.30675
988846	Drains for washbasins and bidets	Flanged tube	147	9945 143	32 X 300	141493	0.18037
989202	Drains for washbasins and bidets	Drain trap	161	97604	1 st Feb	313562	0.19755
989327	Drains for washbasins and bidets	Outlet pipe	425	98764GS	220 X 680	481490	0.52147
989677	Drains for washbasins and bidets	Flanged tube	144.66	98769GS	1 1/4 X 300	483364	0.17750
992972	Drains for washbasins and bidets	Drain trap	370	97512	1 1/4 X 40	307721	0.45399
998937	Drains for washbasins and bidets	Flanged tube	56	9945 143	32 X 120	670856	0.06871
998947	Drains for washbasins and bidets	Flanged tube	70	9945 143	32 X 150	670863	0.08589

Material no.	System	Material short text ENG	Weight [g]	Model no.	Dimensions	Item no.	Conversion factor
614017	Electronic mixing unit	Multiplex Trio E	6,275.00	6146	-	662295	1.55514
614041	Electronic mixing unit	Rechargeable battery	435.00	614639	-	788476	0.10781
614067	Electronic mixing unit	Control element	380.00	614620	65 X 65	662332	0.09418
614087	Electronic mixing unit	Mixing unit	4,820.00	614690	65 X 65	662851	1.19455
614531	Electronic mixing unit	Rechargeable battery	400.00	614635	12V/0.8AH	671082	0.09913
615317	Electronic mixing unit	Multiplex Trio E	6,620.00	61462	2	682972	1.64064
615364	Electronic mixing unit	Control element	376.00	6146210	55	684600	0.09318
615384	Electronic mixing unit	Turning handle	66.00	6146212	55	684624	0.01636
615414	Electronic mixing unit	Mixing unit	4,770.00	6146214	250 X 180	684648	1.18216
615427	Electronic mixing unit	Multiplex Trio E	7,005.00	6146215	3	684655	1.73606
615434	Electronic mixing unit	Control element	448.00	6146216	55	684679	0.11103
615444	Electronic mixing unit	Mixing unit	5.012.00	6146217	250 X 180	684686	1.24213

Imprint



Practitioner of LCA
Viega GmbH & Co KG
Viega Platz 1
57439 Attendorn, Germany



Programme operator
ift Rosenheim GmbH
Theodor-Gietl-Str. 7-9
83026 Rosenheim, G
Phone: +49 80 31/261-0
Fax: +49 80 31/261 290
E-Mail: info@ift-rosenheim.de
www.ift-rosenheim.de



Declaration holder
Viega GmbH & Co KG
Viega Platz 1
57439 Attendorn, Germany

Notes

This EPD is mainly based on the work and findings of the Institut für Fenstertechnik e.V., Rosenheim (ift Rosenheim) and specifically on the ift-Guideline NA.01/3 - Guidance on preparing Type III Environmental Product Declarations.

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Viega GmbH & Co KG

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ift Rosenheim GmbH
Theodor-Gietl-Str. 7-9
83026 Rosenheim, Germany
Phone: +49 (0) 80 31/261-0
Fax: +49 (0) 80 31/261-290
E-Mail: info@ift-rosenheim.de
www.ift-rosenheim.de