

# Environmental Product Declaration (EPD)



Declaration code EPD-VVS-GB-67.0



Viega GmbH &  
Co. KG

## Pre-wall/flushing technology

## Prevista pre-wall/flushing technology



**Basis:**

DIN EN ISO 14025  
EN 15804 + A2

Company EPD  
Environmental  
Product Declaration

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27.08.2029



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Declaration code EPD-VVS-GB-67.0

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<b>Declaration holder</b>	Viega GmbH & Co. KG Viega Platz 1 57439 Attendorn, Germany <a href="http://www.viega.de">www.viega.de</a>		
<b>Declaration code</b>	EPD-VVS-GB-67.0		
<b>Designation of declared product</b>	Prevista pre-wall/flushing technology		
<b>Scope</b>	Prevista Dry for wall and stud frame installation and Prevista Dry Plus for flexible pre-wall design with the mounting rail, as well as Prevista Pure for installations in wet construction. Prevista pre-wall/flushing technology also includes flush plates, Prevista accessories and Prevista spare parts.		
<b>Basis</b>	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 III Umweltproduktdeklarationen" (General guideline for preparation of Type III Environmental Product Declarations) applies. The declaration is based on the PCR Documents "PCR Part A" PCR-A-1.0:2023 and "Pre-wall/flushing technology" PCR-VS-1.0:2023.		
<b>Validity</b>	Publication date:	Last revision:	Valid until:
	27.08.2024	27.08.2024	27.08.2029
	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.		
<b>LCA Basis</b>	The LCA was prepared in accordance with DIN EN ISO 14040 and DIN EN ISO 14044. The base data includes the data collected at one production plant of company 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.).		
<b>Notes</b>	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 “Pre-wall/flushing technology” and applies to:

**1 pc Pre-wall/flushing technology  
of company Viega GmbH & Co. KG**

These are divided into the following product groups:

Product group (PG)		Piece weight <sup>1</sup>
PG1	Prevista Dry	5.07 kg - 29.25 kg
PG2	Prevista Dry Plus	26.7 g - 12.45 kg
PG3	Prevista Pure	2.11 kg - 10.50 kg
PG4	Prevista Flush Plate	18.80 g - 1.25 kg
PG5	Prevista Accessories	196.00 g - 432.00 g
PG6	Prevista Spare Parts	322.3 g

<sup>1</sup> The relevant piece weights [kg/piece] are specified in the conversion table of Annex B in accordance with Part B of the PCR.

**Table 1:** Product groups

The declared unit is obtained by summing up:

PG	Assessed product <sup>2</sup>	Weight <sup>2</sup>	Declared unit
PG1	Prevista Dry	11.26 kg	1 pc
PG2	Prevista Dry Plus	6.11 kg	
PG3	Prevista Pure	7.02 kg	
PG4	Prevista Flush Plate	1.46 kg	
PG5	Prevista Accessories	0.76 kg	
PG6	Prevista Spare Parts	0.31 kg	

<sup>2</sup> 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 by means of manufactured masses (kg) and allocated to the declared unit. All other inputs and outputs in the production were scaled to the declared unit in their entirety since there is no typical functional unit due to the high number of variants. The reference period is the year 2023.

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

## Product description

### Prevista Dry

Pre-wall installation system for dry walling (lightweight construction wall). Barrier-free and handicapped accessible installation is possible. Ready-to-install pre-wall elements for partial and room-height pre-wall constructions as well as free-standing constructions. Fastening in metal and timber stud framing, directly on the wall with 2 fixing points or with mounting rails. Footrests suitable for C profiles 50 and 75 mm. Sound-decoupled devices to accommodate all Viega wall plates. Elements can be integrated into the Prevista Dry Plus rail system. Pre-wall elements for: Toilet, bidet, washbasin, urinal, tap support. Installation depth infinitely adjustable from 120-200 mm.

### Prevista Dry Plus

Flexible pre-wall installation system for dry walling (lightweight construction wall). Barrier-free and handicapped accessible installation is possible. With mounting rail, rail connector, pre-wall elements and ready-to-install sanitary object modules and tap supports. For partial and room-height pre-wall constructions as well as free-standing constructions. Consisting of mounting rail, with large support surface for cladding and direct fixing to floors, ceilings and walls, rail connector for 45° and 90° connections and rail punch for precise, burr-free cutting of the mounting rail to length. Pre-wall elements for: Toilet, bidet, washbasin, urinal, tap support.

### Prevista Pure

Pre-wall blocks for wet construction (rigid wall). Ready-to-install pre-wall blocks for partial and room-height pre-wall constructions. Fixing the pre-wall blocks by walling in or around. Integrated recesses for a secure connection with the masonry. Series mounting with mounting rail possible. Pre-wall blocks for: Toilet, bidet, washbasin, urinal.

### Prevista Flush Plate

Components for toilet and urinal flush release in various designs.

### Prevista Accessories

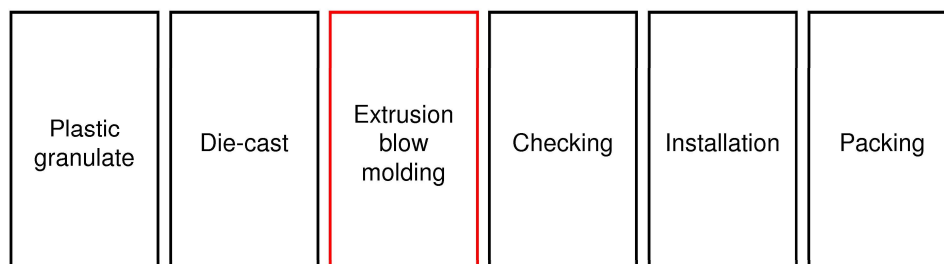
For the clusters described, there are also usually smaller components that can be purchased individually and completed on site as part of the Prevista pre-wall flushing technology.

### Prevista Spare Parts

Spare parts for toilet flushing cisterns and urinals, as well as toilet and urinal flush plates.

For a detailed product description refer to the manufacturer specifications or the product specifications of the respective offer/quotation.

**Product manufacture**



does not apply to all articles

**Illustration 1** Manufacturing process

**Application**

The Viega pre-wall system "Prevista" is divided into three application areas: Prevista Dry for wall and stud frame installations, Prevista Dry Plus for flexible pre-wall design with the mounting rail, and Prevista Pure for installations in wet construction. Prevista pre-wall/flushing technology also includes flush plates, Prevista accessories and Prevista spare parts. Electronics were only installed for Prevista Dry and flush plates.

**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 system 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.

An acoustic insulation test is available for the cistern systems (Prevista Dry, Dry Plus and Pure). Not relevant for the flush plates, accessories and spare parts. Documentation is available. However, documents are confidential but can be shared on request.

**2 Materials used**

**Primary materials**

The raw materials used can be found in Section 6.2 Inventory analysis (Inputs).

**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. (Declaration of 22.07.2024).

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

**3 Construction process stage**

**Processing recommendations, installation**

Observe the instructions for assembly/installation, operation, maintenance and disassembly, provided by the manufacturer. For this, see [www.viega.de](http://www.viega.de)

## 4 Use stage

### Emissions to the environment

No emissions to water and soil are known.

A test report for the assessment of emissions of Volatile Organic Compounds (VOC) using a mixed sample according to ISO 16000 is available for Prevista flush plates. 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](http://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 Prevista pre-wall/flushing technology made by Viega GmbH & Co. KG.

The service life is dependent on the characteristics of the product and in-use conditions.

The service life solely applies to the characteristics specified in this EPD or the corresponding references.

The RSL does not reflect the actual life time, which is usually determined by the service life and the redevelopment of a building. It does not give any information on the useful life, warranty referring to performance characteristics or guarantees.



## 5 End-of-life stage

### Possible end-of-life stages

Systems from Prevista pre-wall/flushing technology are sent 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.

In this EPD, the modules of after-use are presented according to the market situation.

Specific components of metals, plastics and electrical components are recycled. Residual fractions of plastics are thermally recycled. Other residual fractions are sent to landfill.

### Disposal routes

The LCA includes the average disposal routes.

**All life cycle scenarios are detailed in the Annex.**

## 6 Life Cycle Assessment (LCA)

Environmental product declarations are based on life cycle assessments (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 Prevista pre-wall/flushing technology systems. The 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

#### Aim

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. No other additional environmental impacts are specified.

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

The specific data originate exclusively from the 2023 fiscal year. They were recorded at the plant in Elspe and originate in parts from company records and partly from values directly obtained by measurement. Primary data was collected for energy, water and packaging costs, as well as for auxiliary materials, waste and offcuts from the company's own data management system. 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 are not more than 0 years old, as expressed 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 the Prevista pre-wall/flushing technology.

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.

Prevista pre-wall/flushing 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 Inventory analysis

<b>Aim</b>	All material and energy flows are described below. The processes covered are presented as input and output parameters and refer to the declared units.
<b>Life cycle stages</b>	The complete life cycle of Prevista pre-wall/flushing technology 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.
<b>Benefits</b>	<p>The below benefits have been defined as per DIN EN 15804:</p> <ul style="list-style-type: none"> <li>• Benefits from recycling</li> <li>• Benefits (thermal and electrical) from incineration</li> </ul>
<b>Allocation of co-products</b>	<p>Allocations occur during production.</p> <p>Allocation was based on the masses (units) of products produced.</p>
<b>Allocations for re-use, recycling and recovery</b>	<p>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.</p> <p>The system boundaries were set following their disposal, reaching the end-of-waste status.</p>
<b>Allocations beyond life cycle boundaries</b>	<p>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).</p> <p>The system boundary set for the recycled material refers to collection.</p>
<b>Secondary material</b>	The use of secondary material in module A3 by Viega GmbH & Co. KG was considered. Secondary material is not used.
<b>Inputs</b>	<p>The following manufacturing-related inputs were included in the LCA per 1 pc Pre-wall/flushing technology:</p> <p><b>Energy</b></p> <p>The electricity mix is based on "electricity, high voltage (DE, production mix)." "Compressed air, 1000 kPa gauge, RoW, production" was assumed for the power consumption of compressed air and "cooling energy, GLO, market" for the power consumption of the cooling system.</p> <p>A portion of the process heat is used for space heating. This can, however, not be quantified, hence a "worst case" figure was taken into account for the product.</p>

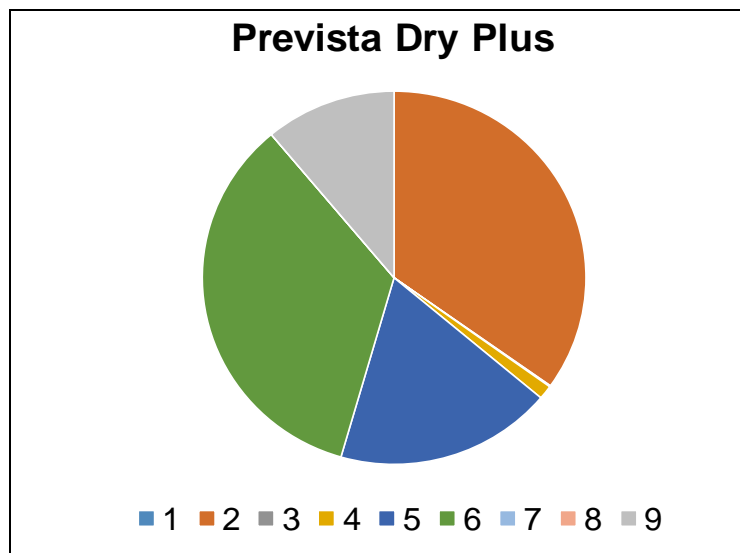
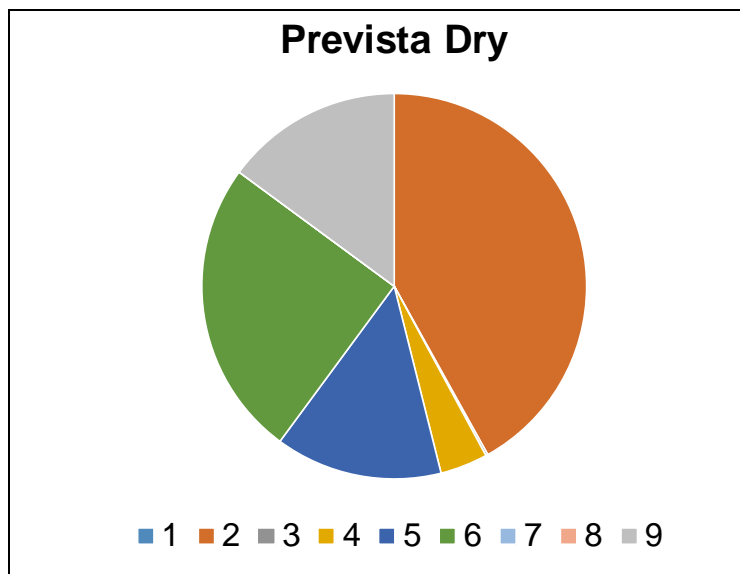
**Water**

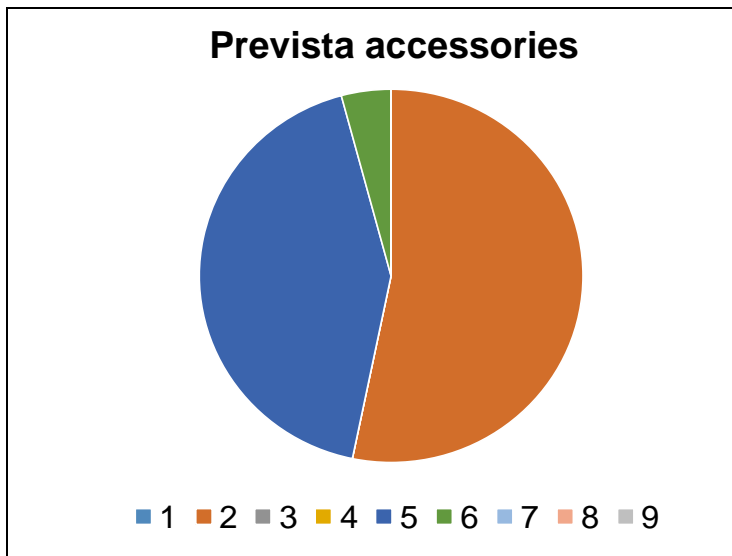
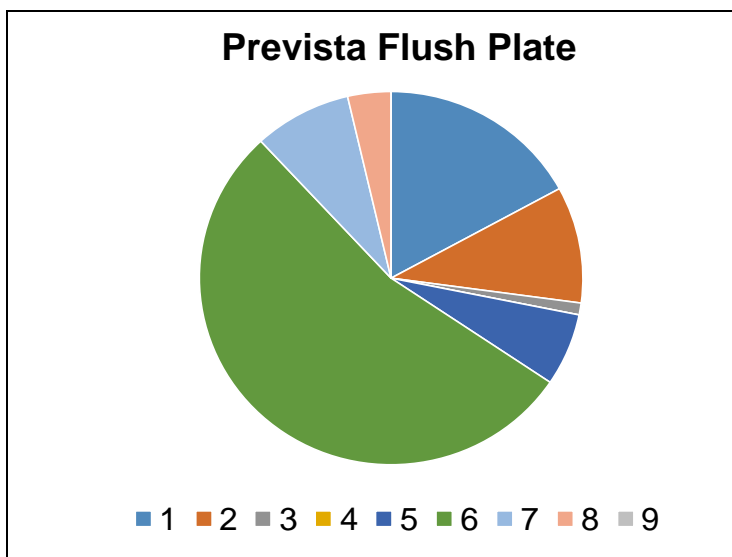
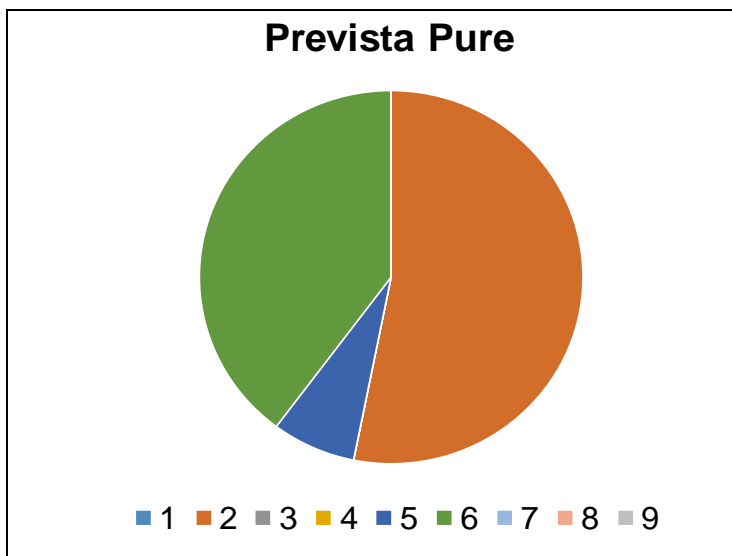
There is no water consumption in the individual process steps for production.

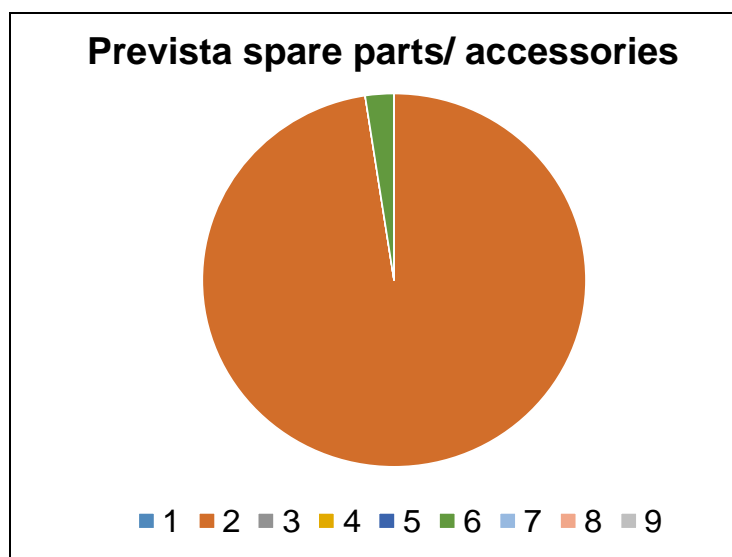
The consumption of fresh water specified in Section 6.3 originates (among others) from the process chain of the pre-products and the process water for cooling.

**Raw material/Pre-products**

The charts below show the share of raw materials/pre-products in percent.







**Illustration 2** Percentage of individual materials per declared unit

No.	Material	Mass in % for Prevista		
		Dry	Dry Plus	Pure
1	Aluminium	0.00	0.00	0.00
2	Steel	41.91	34.83	53.13
3	Stainless steel	0.18	0.11	0.02
4	Gunmetal	3.98	1.20	0.00
5	Other metals	14.04	18.34	7.07
6	Plastics	24.97	34.45	39.78
7	Glass	0.00	0.00	0.00
8	Electronics	0.00	0.00	0.00
9	Wood	14.92	11.07	0.00

No.	Material	Mass in % for Prevista		
		Flush plate	Accessories	Spare parts/ accessories
1	Aluminium	17.05	0.00	0.00
2	Steel	10.08	53.24	97.58
3	Stainless steel	1.03	0.00	0.00
4	Gunmetal	0.00	0.00	0.00
5	Other metals	6.26	42.57	0.00
6	Plastics	53.68	4.19	2.42
7	Glass	8.25	0.00	0.00
8	Electronics	3.65	0.00	0.00
9	Wood	0.00	0.00	0.00

**Table 3** Percentage of individual materials per declared unit

**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:

No.	Material	Mass in % for Prevista		
		Dry	Dry Plus	Pure
1	PE film, PE foam	0.145	0.028	0.014
2	Paper, cardboard, carton	2.007	0.438	0.786

No.	Material	Mass in % for Prevista		
		Flush plate	Accessories	Spare parts/ accessories
1	PE film, PE foam	0.006	0.004	0.000
2	Paper, cardboard, carton	0.217	0.030	0.008

**Table 4** Weight in kg of packaging per declared unit

### Biogenic carbon content

According to EN 16449, the following amounts of biogenic carbon are generated:

Product group	Content in kg C per pc	
	In product	In the corresponding packaging
1 Prevista Dry	2.02	2.007
2 Prevista Dry Plus	0.773	0.438
3 Prevista Pure	0.00	0.786
4 Prevista Flush plates	0.00	0.217
5 Prevista Accessories	0.00	0.030
6 Prevista Spare Parts	0.00	0.008

**Table 5** Biogenic carbon content in product and packaging at the factory gate

### Outputs

The following production-relevant outputs were recorded in the life cycle assessment per 1 Prevista pre-wall/flushing technology unit:

#### Waste

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

#### Waste water

No waste water is produced during the manufacturing process.

## 6.3 Impact assessment

### Aim

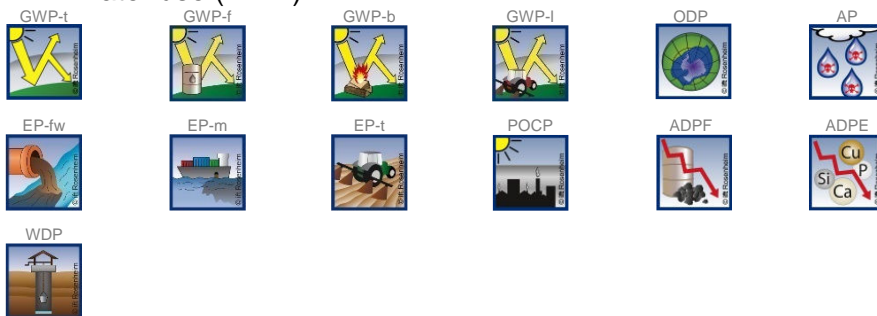
The impact assessment covers both inputs and outputs. The impact categories applied are stated below:

**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)

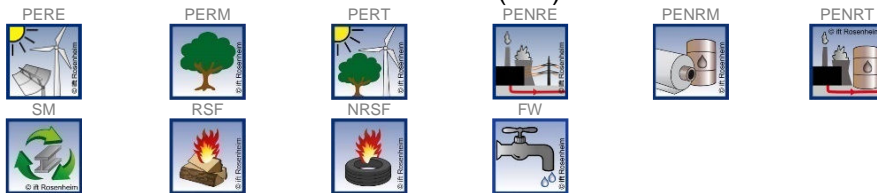


**Resource management**

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)





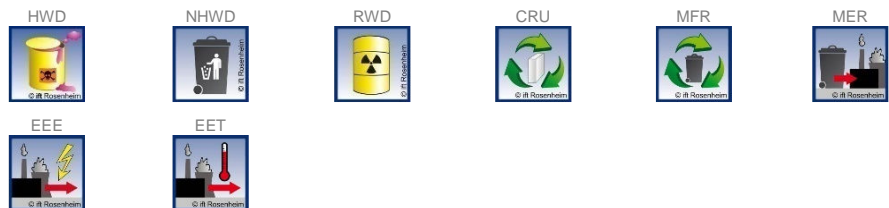
**Waste**

The waste generated during the production of 1 pc Pre-wall/flushing technology 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)

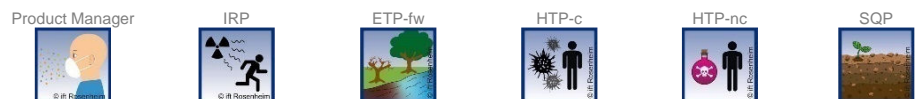


**Additional environmental impact indicators**

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 Prevista Dry

Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
<b>Core indicators</b>															
<b>GWP-t</b>	kg CO <sub>2</sub> equivalent	1.41E+00	5.63E-02	5.22E-01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.46E-04	3.67E-02	9.53E-02	-1.58E+00
<b>GWP-f</b>	kg CO <sub>2</sub> equivalent	1.83E+00	5.63E-02	8.94E-03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.46E-04	2.17E-02	6.51E-03	-1.57E+00
<b>GWP-b</b>	kg CO <sub>2</sub> equivalent	-4.29E-01	2.21E-06	5.13E-01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.71E-08	1.50E-02	8.88E-02	-2.60E-03
<b>GWP-l</b>	kg CO <sub>2</sub> equivalent	2.53E-03	2.34E-05	9.02E-07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.44E-07	4.77E-05	1.83E-06	-1.18E-03
<b>ODP</b>	kg CFC-11-eq.	1.34E-07	9.00E-10	4.44E-11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.32E-11	2.59E-10	4.37E-11	-1.93E-08
<b>AP</b>	mol H <sup>+</sup> -eq.	1.11E-02	1.43E-04	1.11E-04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.52E-06	1.45E-04	2.19E-05	-9.90E-03
<b>EP-fw</b>	kg P-eq.	9.35E-04	4.55E-06	4.07E-06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.66E-08	4.75E-06	9.76E-06	-8.00E-04
<b>EP-m</b>	kg N-eq.	1.99E-03	3.60E-05	2.55E-04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.28E-06	5.66E-05	1.83E-04	-1.52E-03
<b>EP-t</b>	mol N-eq.	1.93E-02	3.90E-04	5.49E-04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.40E-05	5.08E-04	6.82E-05	-1.51E-02
<b>POCP</b>	kg NMVOC-eq.	7.69E-03	2.15E-04	2.93E-04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.12E-06	1.62E-04	4.31E-05	-5.85E-03
<b>ADPF*2</b>	MJ	3.21E+01	8.43E-01	3.74E-02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24E-02	2.58E-01	4.13E-02	-2.37E+01
<b>ADPE*2</b>	kg Sb equivalent	1.49E-04	0.00	9.08E-09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.37E-09	2.00E-07	4.62E-09	-7.07E-05
<b>WDP*2</b>	m <sup>3</sup> world-eq. deprived	2.36E+00	4.02E-03	2.01E-03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.93E-05	2.34E-03	4.35E-04	-8.38E-01
<b>Resource management</b>															
<b>PERE</b>	MJ	-7.13E+02	1.11E-02	3.62E+02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.62E-04	3.17E+02	4.61E+01	-2.14E+00
<b>PERM</b>	MJ	7.25E+02	0.00	-3.62E+02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-3.17E+02	-4.61E+01	0.00
<b>PERT</b>	MJ	1.22E+01	1.11E-02	1.21E-03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.62E-04	1.22E-02	1.28E-03	-2.14E+00
<b>PENRE</b>	MJ	-7.80E+02	8.43E-01	3.35E+01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24E-02	6.80E+02	9.90E+01	-2.37E+01
<b>PENRM</b>	MJ	8.13E+02	0.00	-3.35E+01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-6.80E+02	-9.89E+01	0.00
<b>PENRT</b>	MJ	3.21E+01	8.43E-01	3.74E-02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24E-02	2.58E-01	4.13E-02	-2.37E+01
<b>SM</b>	kg	3.11E-01	3.58E-04	1.96E-05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.25E-06	2.26E-04	1.35E-05	-4.13E-01
<b>RSF</b>	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
<b>NRSF</b>	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
<b>FW</b>	m <sup>3</sup>	4.08E-02	1.23E-04	2.61E-05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.82E-06	6.11E-05	-4.84E-04	-3.19E-03
<b>Categories of waste</b>															
<b>HWD</b>	kg	2.98E-01	1.43E-03	4.11E-04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.10E-05	1.09E-03	1.14E-04	-2.81E-01
<b>NHWD</b>	kg	1.34E+01	2.66E-02	1.43E-01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.89E-04	3.35E-02	6.58E-01	-1.28E+01
<b>RWD</b>	kg	4.35E-05	0.00	1.21E-08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.67E-09	1.38E-07	2.50E-08	-2.47E-05
<b>Output material flows</b>															
<b>CRU</b>	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
<b>MFR</b>	kg	2.24E-03	0.00	6.55E-07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.22E-08	3.58E-01	8.03E-07	-6.31E-04
<b>MER</b>	kg	3.90E-06	0.00	2.18E-09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.48E-10	2.72E-08	2.78E-09	-1.86E-06
<b>EE</b>	MJ	1.30E-02	0.00	8.03E-06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.25E-06	1.08E-04	1.42E-05	-7.38E-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 Prevista Dry

Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
<b>Additional environmental impact indicators</b>															
<b>PM</b>	Disease incidence	1.32E-07	5.43E-09	2.66E-08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.66E-11	6.41E-09	2.95E-10	-1.11E-07
<b>IRP*1</b>	kBq U235-eq.	1.56E-01	7.42E-04	5.18E-05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.09E-05	5.62E-04	1.02E-04	-9.71E-02
<b>ETP-fw*2</b>	CTUe	3.53E+01	2.04E-01	1.23E+00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.97E-03	3.42E-01	1.28E+00	-2.15E+01
<b>HTP-c*2</b>	CTUh	2.23E-08	0.00	3.92E-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.23E-12	1.96E-10	1.33E-11	-2.51E-08
<b>HTP-nc*2</b>	CTUh	8.40E-08	2.88E-10	4.02E-08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.16E-12	5.39E-10	6.09E-10	-9.30E-08
<b>SQP*2</b>	dimensionless	4.17E+01	8.30E-01	9.26E-02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24E-02	4.57E-01	7.69E-02	-4.69E+00

**Key:**

**PM** – particulate matter emissions potential    **IRP\*1** – ionizing radiation potential – human health effects    **ETP-fw\*2** - Ecotoxicity 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 ionizing 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 Prevista Dry Plus

Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
<b>Core indicators</b>															
<b>GWP-t</b>	kg CO <sub>2</sub> equivalent	1.59E+00	4.83E-02	2.00E-01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.23E-03	2.89E-02	7.15E-02	-1.61E+00
<b>GWP-f</b>	kg CO <sub>2</sub> equivalent	1.82E+00	4.82E-02	3.78E-03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.22E-03	1.76E-02	4.88E-03	-1.60E+00
<b>GWP-b</b>	kg CO <sub>2</sub> equivalent	-2.27E-01	1.89E-06	1.96E-01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.92E-08	1.12E-02	6.66E-02	-2.08E-03
<b>GWP-l</b>	kg CO <sub>2</sub> equivalent	1.84E-03	2.01E-05	3.92E-07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.97E-07	3.74E-05	1.37E-06	-1.34E-03
<b>ODP</b>	kg CFC-11-eq.	2.32E-07	7.72E-10	2.98E-11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.91E-11	2.10E-10	3.28E-11	-2.21E-08
<b>AP</b>	mol H <sup>+</sup> -eq.	1.66E-02	1.22E-04	4.48E-05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.10E-06	1.23E-04	1.64E-05	-1.93E-02
<b>EP-fw</b>	kg P-eq.	1.30E-03	3.90E-06	1.69E-06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.64E-08	4.25E-06	7.32E-06	-1.54E-03
<b>EP-m</b>	kg N-eq.	2.09E-03	3.09E-05	9.68E-05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.86E-06	4.57E-05	1.38E-04	-1.91E-03
<b>EP-t</b>	mol N-eq.	2.23E-02	3.34E-04	2.13E-04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.02E-05	4.17E-04	5.11E-05	-2.11E-02
<b>POCP</b>	kg NMVOC-eq.	8.50E-03	1.84E-04	1.13E-04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.41E-06	1.32E-04	3.23E-05	-7.68E-03
<b>ADPF*2</b>	MJ	3.34E+01	7.23E-01	2.34E-02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.79E-02	2.10E-01	3.09E-02	-2.57E+01
<b>ADPE*2</b>	kg Sb equivalent	2.35E-04	0.00	7.60E-09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.44E-09	2.24E-07	3.46E-09	-2.24E-04
<b>WDP*2</b>	m <sup>3</sup> world-eq. deprived	1.52E+00	3.45E-03	8.18E-04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.58E-05	2.00E-03	3.26E-04	-9.89E-01
<b>Resource management</b>															
<b>PERE</b>	MJ	-1.12E+02	9.50E-03	4.28E+01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.35E-04	6.84E+01	7.18E+00	-2.76E+00
<b>PERM</b>	MJ	1.18E+02	0.00	-4.28E+01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-6.84E+01	-7.18E+00	0.00
<b>PERT</b>	MJ	6.03E+00	9.50E-03	1.97E-03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.35E-04	1.15E-02	9.60E-04	-2.76E+00
<b>PENRE</b>	MJ	-2.71E+02	7.23E-01	3.53E+00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.79E-02	2.73E+02	2.86E+01	-2.57E+01
<b>PENRM</b>	MJ	3.05E+02	0.00	-3.51E+00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-2.73E+02	-2.86E+01	0.00
<b>PENRT</b>	MJ	3.34E+01	7.23E-01	2.34E-02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.79E-02	2.10E-01	3.09E-02	-2.57E+01
<b>SM</b>	kg	2.39E-01	3.07E-04	8.99E-06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.60E-06	1.87E-04	1.02E-05	-3.34E-01
<b>RSF</b>	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
<b>NRSF</b>	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
<b>FW</b>	m <sup>3</sup>	2.66E-02	1.06E-04	1.13E-05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.63E-06	5.25E-05	-3.63E-04	-1.13E-02
<b>Categories of waste</b>															
<b>HWD</b>	kg	2.55E-01	1.23E-03	1.72E-04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.03E-05	9.36E-04	8.54E-05	-2.88E-01
<b>NHWD</b>	kg	1.21E+01	2.28E-02	5.49E-02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.63E-04	2.84E-02	4.93E-01	-1.45E+01
<b>RWD</b>	kg	3.29E-05	0.00	1.41E-08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.86E-09	1.20E-07	1.87E-08	-2.77E-05
<b>Output material flows</b>															
<b>CRU</b>	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
<b>MFR</b>	kg	2.59E-03	0.00	1.16E-06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.33E-07	3.14E-01	6.02E-07	-8.87E-04
<b>MER</b>	kg	3.69E-06	0.00	9.52E-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.94E-10	2.30E-08	2.09E-09	-2.65E-06
<b>EE</b>	MJ	1.34E-02	0.00	3.56E-06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.26E-06	9.09E-05	1.07E-05	-9.14E-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 Prevista Dry Plus

Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
<b>Additional environmental impact indicators</b>															
<b>PM</b>	Disease incidence	1.25E-07	4.66E-09	1.00E-08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.25E-10	5.00E-09	2.21E-10	-1.22E-07
<b>IRP*1</b>	kBq U235-eq.	1.23E-01	6.36E-04	6.53E-05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.58E-05	4.91E-04	7.66E-05	-1.07E-01
<b>ETP-fw*2</b>	CTUe	4.55E+01	1.75E-01	4.68E-01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.31E-03	2.68E-01	9.62E-01	-3.11E+01
<b>HTP-c*2</b>	CTUh	1.90E-08	0.00	1.50E-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.13E-12	1.58E-10	9.98E-12	-2.23E-08
<b>HTP-nc*2</b>	CTUh	1.43E-07	2.47E-10	1.54E-08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.18E-11	4.69E-10	4.57E-10	-1.87E-07
<b>SQP*2</b>	dimensionless	2.26E+01	7.12E-01	3.61E-02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.80E-02	3.72E-01	5.77E-02	-7.73E+00

**Key:**

**PM** – particulate matter emissions potential    **IRP\*1** – ionizing radiation potential – human health effects    **ETP-fw\*2** - Ecotoxicity 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 ionizing 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 Prevista Pure

Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
<b>Core indicators</b>															
<b>GWP-t</b>	kg CO <sub>2</sub> equivalent	1.72E+00	5.08E-02	3.14E-01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.08E-03	3.94E-02	1.68E-02	-1.65E+00
<b>GWP-f</b>	kg CO <sub>2</sub> equivalent	1.83E+00	5.08E-02	3.03E-03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.08E-03	2.33E-02	1.14E-03	-1.65E+00
<b>GWP-b</b>	kg CO <sub>2</sub> equivalent	-1.11E-01	1.99E-06	3.11E-01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.47E-08	1.60E-02	1.56E-02	-2.10E-03
<b>GWP-l</b>	kg CO <sub>2</sub> equivalent	1.26E-03	2.11E-05	5.38E-07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.40E-07	5.12E-05	3.22E-07	-1.02E-03
<b>ODP</b>	kg CFC-11-eq.	1.34E-07	8.12E-10	3.10E-11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.69E-11	2.78E-10	7.69E-12	-2.17E-08
<b>AP</b>	mol H <sup>+</sup> -eq.	9.67E-03	1.29E-04	6.47E-05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.51E-06	1.56E-04	3.85E-06	-9.88E-03
<b>EP-fw</b>	kg P-eq.	7.88E-04	4.10E-06	2.51E-06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.52E-08	5.10E-06	1.72E-06	-8.05E-04
<b>EP-m</b>	kg N-eq.	1.76E-03	3.25E-05	1.46E-04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.64E-06	6.07E-05	3.22E-05	-1.59E-03
<b>EP-t</b>	mol N-eq.	1.73E-02	3.52E-04	3.15E-04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.79E-05	5.45E-04	1.20E-05	-1.56E-02
<b>POCP</b>	kg NMVOC-eq.	7.41E-03	1.94E-04	1.72E-04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.55E-06	1.74E-04	7.57E-06	-6.28E-03
<b>ADPF*2</b>	MJ	3.38E+01	7.61E-01	2.55E-02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.58E-02	2.76E-01	7.25E-03	-2.60E+01
<b>ADPE*2</b>	kg Sb equivalent	7.29E-05	0.00	7.00E-09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.04E-09	2.15E-07	8.12E-10	-6.27E-05
<b>WDP*2</b>	m <sup>3</sup> world-eq. deprived	8.18E-01	3.63E-03	1.15E-03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.59E-05	2.52E-03	7.65E-05	-6.10E-01
<b>Resource management</b>															
<b>PERE</b>	MJ	-8.38E+01	1.00E-02	8.84E+01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.08E-04	1.32E-02	2.25E-04	-1.31E+00
<b>PERM</b>	MJ	8.84E+01	0.00	-8.84E+01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>PERT</b>	MJ	4.65E+00	1.00E-02	1.35E-03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.08E-04	1.32E-02	2.25E-04	-1.31E+00
<b>PENRE</b>	MJ	-3.93E+02	7.61E-01	2.04E+00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.58E-02	4.16E+02	9.36E+00	-2.60E+01
<b>PENRM</b>	MJ	4.27E+02	0.00	-2.02E+00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-4.16E+02	-9.35E+00	0.00
<b>PENRT</b>	MJ	3.38E+01	7.61E-01	2.55E-02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.58E-02	2.77E-01	7.25E-03	-2.60E+01
<b>SM</b>	kg	3.35E-01	3.23E-04	1.19E-05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.72E-06	2.42E-04	2.38E-06	-4.59E-01
<b>RSF</b>	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
<b>NRSF</b>	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
<b>FW</b>	m <sup>3</sup>	6.03E-03	1.11E-04	1.51E-05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.33E-06	6.55E-05	-8.50E-05	3.72E-03
<b>Categories of waste</b>															
<b>HWD</b>	kg	2.43E-01	1.29E-03	2.36E-04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.68E-05	1.17E-03	2.00E-05	-2.86E-01
<b>NHWD</b>	kg	1.14E+01	2.40E-02	8.26E-02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.98E-04	3.59E-02	1.16E-01	-1.36E+01
<b>RWD</b>	kg	1.84E-05	0.00	1.10E-08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.42E-09	1.48E-07	4.39E-09	-2.02E-05
<b>Output material flows</b>															
<b>CRU</b>	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
<b>MFR</b>	kg	9.16E-04	0.00	7.72E-07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.18E-07	3.85E-01	1.41E-07	-5.86E-04
<b>MER</b>	kg	2.46E-06	0.00	1.30E-09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.02E-10	2.92E-08	4.89E-10	-1.73E-06
<b>EE</b>	MJ	1.05E-02	0.00	4.79E-06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.88E-06	1.16E-04	2.50E-06	-8.00E-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 Prevista Pure

Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
<b>Additional environmental impact indicators</b>															
<b>PM</b>	Disease incidence	1.16E-07	4.90E-09	1.47E-08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.11E-10	6.87E-09	5.18E-11	-1.17E-07
<b>IRP*1</b>	kBq U235-eq.	7.44E-02	6.69E-04	4.95E-05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.40E-05	6.04E-04	1.79E-05	-8.26E-02
<b>ETP-fw*2</b>	CTUe	2.87E+01	1.84E-01	7.19E-01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.81E-03	3.67E-01	2.25E-01	-2.31E+01
<b>HTP-c*2</b>	CTUh	2.20E-08	0.00	2.27E-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.42E-12	2.10E-10	2.34E-12	-2.75E-08
<b>HTP-nc*2</b>	CTUh	7.52E-08	2.60E-10	2.43E-08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.05E-11	5.79E-10	1.07E-10	-9.54E-08
<b>SQP*2</b>	dimensionless	2.39E+01	7.49E-01	5.36E-02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.59E-02	4.91E-01	1.35E-02	-4.88E+00

**Key:**

**PM** – particulate matter emissions potential    **IRP\*1** – ionizing radiation potential – human health effects    **ETP-fw\*2** - Ecotoxicity potential – freshwater    **HTP-c\*2** - Human toxicity potential – cancer    **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 ionizing 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 Prevista flush plate

Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
<b>Core indicators</b>															
<b>GWP-t</b>	kg CO <sub>2</sub> equivalent	4.08E+00	4.82E-02	3.82E-01	0.00	0.00	0.00	0.00	4.29E-05	0.00	0.00	4.79E-03	1.25E-02	6.99E-02	-3.50E+00
<b>GWP-f</b>	kg CO <sub>2</sub> equivalent	4.15E+00	4.82E-02	3.78E-03	0.00	0.00	0.00	0.00	4.13E-05	0.00	0.00	4.79E-03	9.65E-03	4.77E-03	-3.49E+00
<b>GWP-b</b>	kg CO <sub>2</sub> equivalent	-7.89E-02	1.89E-06	3.79E-01	0.00	0.00	0.00	0.00	1.46E-06	0.00	0.00	1.53E-07	2.83E-03	6.52E-02	-2.79E-03
<b>GWP-l</b>	kg CO <sub>2</sub> equivalent	3.94E-03	2.01E-05	6.21E-07	0.00	0.00	0.00	0.00	1.26E-07	0.00	0.00	1.94E-06	1.61E-05	1.34E-06	-4.10E-03
<b>ODP</b>	kg CFC-11-eq.	1.24E-07	7.70E-10	2.72E-11	0.00	0.00	0.00	0.00	7.60E-13	0.00	0.00	7.47E-11	1.09E-10	3.21E-11	-7.99E-08
<b>AP</b>	mol H <sup>+</sup> -eq.	2.96E-02	1.22E-04	7.72E-05	0.00	0.00	0.00	0.00	2.43E-07	0.00	0.00	1.99E-05	7.82E-05	1.61E-05	-2.83E-02
<b>EP-fw</b>	kg P-eq.	3.01E-03	3.89E-06	2.95E-06	0.00	0.00	0.00	0.00	3.84E-08	0.00	0.00	3.77E-07	3.58E-06	7.16E-06	-3.50E-03
<b>EP-m</b>	kg N-eq.	4.59E-03	3.08E-05	1.80E-04	0.00	0.00	0.00	0.00	3.81E-08	0.00	0.00	7.26E-06	2.24E-05	1.35E-04	-4.55E-03
<b>EP-t</b>	mol N-eq.	4.91E-02	3.34E-04	3.85E-04	0.00	0.00	0.00	0.00	3.41E-07	0.00	0.00	7.91E-05	2.26E-04	5.00E-05	-4.97E-02
<b>POCP</b>	kg NMVOC-eq.	1.77E-02	1.84E-04	2.10E-04	1.77E-07	0.00	0.00	0.00	1.12E-07	0.00	0.00	2.90E-05	6.93E-05	3.16E-05	-1.98E-02
<b>ADPF*2</b>	MJ	6.10E+01	7.22E-01	2.35E-02	0.00	0.00	0.00	0.00	9.60E-04	0.00	0.00	6.99E-02	1.17E-01	3.03E-02	-5.45E+01
<b>ADPE*2</b>	kg Sb equivalent	6.21E-04	0.00	5.09E-09	0.00	0.00	0.00	0.00	5.57E-10	0.00	0.00	1.34E-08	2.79E-07	3.39E-09	-1.03E-03
<b>WDP*2</b>	m <sup>3</sup> world-eq. deprived	1.60E+00	3.44E-03	1.37E-03	0.00	0.00	0.00	0.00	2.61E-05	0.00	0.00	3.36E-04	1.44E-03	3.19E-04	-1.94E+00
<b>Resource management</b>															
<b>PERE</b>	MJ	2.54E+00	9.48E-03	5.07E+00	0.00	0.00	0.00	0.00	8.69E-04	0.00	0.00	9.18E-04	1.15E-02	9.39E-04	-6.82E+00
<b>PERM</b>	MJ	5.07E+00	0.00	-5.07E+00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>PERT</b>	MJ	7.61E+00	9.48E-03	3.74E-04	0.00	0.00	0.00	0.00	8.69E-04	0.00	0.00	9.18E-04	1.15E-02	9.39E-04	-6.82E+00
<b>PENRE</b>	MJ	3.36E+01	7.22E-01	2.03E-01	0.00	0.00	0.00	0.00	3.17E-03	0.00	0.00	6.99E-02	2.47E+01	2.55E+00	-5.45E+01
<b>PENRM</b>	MJ	2.73E+01	0.00	-1.80E-01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-2.46E+01	-2.52E+00	0.00
<b>PENRT</b>	MJ	6.10E+01	7.22E-01	2.35E-02	0.00	0.00	0.00	0.00	3.17E-03	0.00	0.00	6.99E-02	1.18E-01	3.03E-02	-5.45E+01
<b>SM</b>	kg	6.98E-02	3.06E-04	1.34E-05	0.00	0.00	0.00	0.00	5.24E-07	0.00	0.00	2.97E-05	1.05E-04	9.93E-06	-1.01E-01
<b>RSF</b>	MJ	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.18E-09	0.00	0.00	0.00	0.00	0.00	0.00
<b>NRSF</b>	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
<b>FW</b>	m <sup>3</sup>	4.44E-02	1.06E-04	1.75E-05	0.00	0.00	0.00	0.00	8.29E-07	0.00	0.00	1.03E-05	3.98E-05	-3.55E-04	-4.46E-02
<b>Categories of waste</b>															
<b>HWD</b>	kg	4.85E-01	1.22E-03	2.77E-04	0.00	0.00	0.00	0.00	1.88E-04	0.00	0.00	1.19E-04	6.74E-04	8.35E-05	-4.21E-01
<b>NHWD</b>	kg	1.46E+01	2.27E-02	1.01E-01	0.00	0.00	0.00	0.00	2.43E-06	0.00	0.00	2.20E-03	1.94E-02	4.82E-01	-1.85E+01
<b>RWD</b>	kg	8.73E-05	0.00	5.48E-09	0.00	0.00	0.00	0.00	2.25E-08	0.00	0.00	1.51E-08	1.14E-07	1.83E-08	-8.47E-05
<b>Output material flows</b>															
<b>CRU</b>	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
<b>MFR</b>	kg	5.87E-02	0.00	1.76E-07	0.00	0.00	0.00	0.00	3.29E-07	0.00	0.00	5.22E-07	2.13E-01	5.89E-07	-2.69E-03
<b>MER</b>	kg	5.99E-06	0.00	1.50E-09	0.00	0.00	0.00	0.00	1.34E-11	0.00	0.00	3.10E-09	1.44E-08	2.04E-09	-5.85E-06
<b>EE</b>	MJ	3.80E-02	0.00	5.47E-06	0.00	0.00	0.00	0.00	1.47E-05	0.00	0.00	1.27E-05	6.59E-05	1.04E-05	-3.28E-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 Prevista flush plate

Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
<b>Additional environmental impact indicators</b>															
<b>PM</b>	Disease incidence	2.11E-07	4.65E-09	1.82E-08	0.00	0.00	0.00	0.00	8.65E-13	0.00	0.00	4.90E-10	1.93E-09	2.16E-10	-2.10E-07
<b>IRP*1</b>	kBq U235-eq.	3.33E-01	6.35E-04	2.22E-05	0.00	0.00	0.00	0.00	2.65E-05	0.00	0.00	6.17E-05	4.64E-04	7.49E-05	-3.32E-01
<b>ETP-fw*2</b>	CTUe	7.26E+01	1.74E-01	8.81E-01	1.45E-06	0.00	0.00	0.00	9.81E-14	0.00	0.00	1.68E-02	1.09E-01	9.41E-01	-8.51E+01
<b>HTP-c*2</b>	CTUh	2.07E-08	0.00	2.79E-10	0.00	0.00	0.00	0.00	9.81E-14	0.00	0.00	2.39E-11	7.41E-11	9.77E-12	-1.62E-08
<b>HTP-nc*2</b>	CTUh	1.44E-07	2.46E-10	2.97E-08	3.86E-14	0.00	0.00	0.00	7.26E-13	0.00	0.00	4.62E-11	3.42E-10	4.47E-10	-1.02E-07
<b>SQP*2</b>	dimensionless	2.98E+01	7.11E-01	6.51E-02	0.00	0.00	0.00	0.00	2.13E-04	0.00	0.00	7.04E-02	1.86E-01	5.64E-02	-2.01E+01

**Key:**

**PM** – particulate matter emissions potential    **IRP\*1** – ionizing radiation potential – human health effects    **ETP-fw\*2** - Ecotoxicity 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 ionizing 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 Prevista accessories

Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
<b>Core indicators</b>															
<b>GWP-t</b>	kg CO <sub>2</sub> equivalent	5.40E+00	6.62E-02	1.03E-01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.40E-02	1.61E-01	3.96E-04	-8.18E-01
<b>GWP-f</b>	kg CO <sub>2</sub> equivalent	5.07E+00	6.61E-02	4.06E-03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.40E-02	1.41E-01	3.94E-04	-8.14E-01
<b>GWP-b</b>	kg CO <sub>2</sub> equivalent	3.25E-01	2.31E-05	9.90E-02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.64E-06	1.98E-02	2.39E-06	-3.71E-03
<b>GWP-l</b>	kg CO <sub>2</sub> equivalent	1.09E-02	3.39E-05	1.70E-07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.96E-06	9.38E-05	2.86E-07	-7.62E-04
<b>ODP</b>	kg CFC-11-eq.	6.30E-08	1.12E-09	1.25E-11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.30E-10	6.59E-10	9.29E-12	-8.20E-09
<b>AP</b>	mol H <sup>+</sup> -eq.	3.77E-02	1.80E-04	2.35E-05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.12E-05	3.55E-04	2.80E-06	-3.56E-03
<b>EP-fw</b>	kg P-eq.	4.15E-03	5.54E-06	4.33E-08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.14E-06	1.33E-05	1.03E-07	-3.35E-04
<b>EP-m</b>	kg N-eq.	7.80E-03	4.72E-05	4.16E-05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.24E-05	1.24E-04	1.05E-06	-8.74E-04
<b>EP-t</b>	mol N-eq.	8.04E-02	4.88E-04	1.01E-04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.40E-04	1.16E-03	1.12E-05	-7.57E-03
<b>POCP</b>	kg NMVOC-eq.	2.36E-02	2.58E-04	6.16E-05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.63E-05	3.56E-04	3.79E-06	-3.01E-03
<b>ADPF*2</b>	MJ	7.01E+01	1.00E+00	5.23E-03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.06E-01	5.29E-01	8.59E-03	-9.80E+00
<b>ADPE*2</b>	kg Sb equivalent	1.29E-03	0.00	1.07E-09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.89E-08	9.26E-07	8.25E-10	-1.95E-06
<b>WDP*2</b>	m <sup>3</sup> world-eq. deprived	3.80E+00	5.00E-03	5.25E-04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03E-03	1.06E-02	4.75E-05	-4.13E-01
<b>Resource management</b>															
<b>PERE</b>	MJ	8.38E+00	1.26E-02	3.65E-01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.59E-03	3.82E-02	1.46E-04	-6.05E-01
<b>PERM</b>	MJ	3.65E-01	0.00	-3.65E-01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>PERT</b>	MJ	8.74E+00	1.26E-02	1.05E-04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.59E-03	3.82E-02	1.46E-04	-6.05E-01
<b>PENRE</b>	MJ	6.95E+01	1.00E+00	6.75E-02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.06E-01	1.01E+00	2.50E-02	-9.80E+00
<b>PENRM</b>	MJ	5.61E-01	0.00	-6.23E-02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-4.82E-01	-1.65E-02	0.00
<b>PENRT</b>	MJ	7.01E+01	1.00E+00	5.23E-03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.06E-01	5.29E-01	8.59E-03	-9.80E+00
<b>SM</b>	kg	5.03E-01	4.20E-04	3.93E-06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.65E-05	4.83E-04	3.28E-06	-4.31E-01
<b>RSF</b>	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
<b>NRSF</b>	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
<b>FW</b>	m <sup>3</sup>	5.45E-02	1.37E-04	8.43E-06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.84E-05	3.03E-04	8.63E-06	2.73E-02
<b>Categories of waste</b>															
<b>HWD</b>	kg	3.51E-01	7.35E-04	3.48E-05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.51E-04	1.54E-03	7.38E-06	-7.38E-02
<b>NHWD</b>	kg	1.30E+01	2.35E-02	1.89E-04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.83E-03	4.86E-02	2.20E-04	-1.20E+00
<b>RWD</b>	kg	2.06E-04	0.00	1.53E-09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.47E-08	3.61E-07	2.71E-09	-9.15E-06
<b>Output material flows</b>															
<b>CRU</b>	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
<b>MFR</b>	kg	6.35E-02	0.00	4.14E-08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.60E-06	9.13E-01	5.99E-08	-2.95E-04
<b>MER</b>	kg	1.74E-05	0.00	3.96E-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.71E-09	6.16E-08	2.69E-10	-5.78E-07
<b>EE</b>	MJ	7.68E-02	0.00	1.69E-06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.68E-05	2.47E-04	1.48E-06	-4.05E-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 Prevista accessories

Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
<b>Additional environmental impact indicators</b>															
<b>PM</b>	Disease incidence	2.67E-07	6.42E-09	1.38E-08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.44E-09	1.11E-08	6.03E-11	-7.59E-08
<b>IRP*1</b>	kBq U235-eq.	7.84E-01	9.09E-04	6.24E-06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.88E-04	1.47E-03	1.12E-05	-3.76E-02
<b>ETP-fw*2</b>	CTUe	3.57E+02	5.29E-01	2.11E-01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.09E-01	8.47E-01	3.74E-03	-8.78E+00
<b>HTP-c*2</b>	CTUh	2.66E-08	0.00	8.49E-11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.10E-12	1.07E-10	2.21E-13	-1.16E-08
<b>HTP-nc*2</b>	CTUh	5.14E-07	2.94E-11	3.46E-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.50E-10	1.88E-09	2.50E-12	-5.23E-08
<b>SQP*2</b>	dimensionless	3.20E+01	9.85E-01	1.26E-02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.07E-01	9.06E-01	1.95E-02	-2.01E+00

**Key:**

**PM** – particulate matter emissions potential    **IRP\*1** – ionizing radiation potential – human health effects    **ETP-fw\*2** - Ecotoxicity 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 ionizing 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 Prevista spare parts

Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
<b>Core indicators</b>															
<b>GWP-t</b>	kg CO <sub>2</sub> equivalent	9.31E+00	6.49E-02	6.51E-02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.36E-02	1.49E-01	3.47E-04	-1.38E+00
<b>GWP-f</b>	kg CO <sub>2</sub> equivalent	8.37E+00	6.49E-02	3.32E-04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.36E-02	1.13E-01	3.45E-04	-1.37E+00
<b>GWP-b</b>	kg CO <sub>2</sub> equivalent	9.34E-01	2.26E-05	6.47E-02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.12E-05	3.68E-02	2.10E-06	-6.47E-03
<b>GWP-l</b>	kg CO <sub>2</sub> equivalent	9.28E-03	3.33E-05	9.45E-08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.68E-05	1.38E-04	2.51E-07	-1.29E-03
<b>ODP</b>	kg CFC-11-eq.	8.24E-08	1.10E-09	6.79E-12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.54E-10	7.81E-10	8.14E-12	-1.39E-08
<b>AP</b>	mol H <sup>+</sup> -eq.	5.19E-02	1.77E-04	1.24E-05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.47E-04	3.91E-04	2.45E-06	-6.11E-03
<b>EP-fw</b>	kg P-eq.	4.77E-03	5.43E-06	2.38E-08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.74E-06	1.24E-05	9.03E-08	-5.86E-04
<b>EP-m</b>	kg N-eq.	7.92E-03	4.63E-05	2.00E-05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.40E-05	1.57E-04	9.17E-07	-1.52E-03
<b>EP-t</b>	mol N-eq.	8.13E-02	4.79E-04	4.92E-05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.77E-04	1.39E-03	9.82E-06	-1.30E-02
<b>POCP</b>	kg NMVOC-eq.	2.63E-02	2.54E-04	3.51E-05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.08E-04	4.38E-04	3.32E-06	-5.20E-03
<b>ADPF*2</b>	MJ	1.02E+02	9.83E-01	2.92E-03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.96E-01	6.69E-01	7.52E-03	-1.54E+01
<b>ADPE*2</b>	kg Sb equivalent	3.40E-04	0.00	5.86E-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.36E-08	4.78E-07	7.22E-10	-3.38E-06
<b>WDP*2</b>	m <sup>3</sup> world-eq. deprived	2.40E+00	4.91E-03	2.87E-04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.49E-03	1.02E-02	4.16E-05	-7.34E-01
<b>Resource management</b>															
<b>PERE</b>	MJ	8.64E+00	1.24E-02	3.97E-02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.23E-03	3.10E-02	1.28E-04	-1.02E+00
<b>PERM</b>	MJ	3.97E-02	0.00	-3.97E-02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>PERT</b>	MJ	8.68E+00	1.24E-02	5.75E-05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.23E-03	3.10E-02	1.28E-04	-1.02E+00
<b>PENRE</b>	MJ	1.02E+02	9.83E-01	2.92E-03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.96E-01	7.19E-01	9.00E-03	-1.54E+01
<b>PENRM</b>	MJ	5.08E-02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-4.94E-02	-1.47E-03	0.00
<b>PENRT</b>	MJ	1.02E+02	9.83E-01	2.92E-03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.96E-01	6.70E-01	7.52E-03	-1.54E+01
<b>SM</b>	kg	9.05E-01	4.12E-04	2.24E-06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.08E-04	5.82E-04	2.87E-06	-7.89E-01
<b>RSF</b>	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
<b>NRSF</b>	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
<b>FW</b>	m <sup>3</sup>	2.30E-03	1.35E-04	4.07E-06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.84E-05	2.66E-04	7.56E-06	5.04E-02
<b>Categories of waste</b>															
<b>HWD</b>	kg	6.44E-01	7.21E-04	1.81E-05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.64E-04	1.46E-03	6.46E-06	-1.32E-01
<b>NHWD</b>	kg	1.89E+01	2.31E-02	1.03E-04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16E-02	4.22E-02	1.92E-04	-2.07E+00
<b>RWD</b>	kg	2.30E-04	0.00	8.44E-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.07E-07	3.57E-07	2.37E-09	-1.50E-05
<b>Output material flows</b>															
<b>CRU</b>	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
<b>MFR</b>	kg	2.02E-01	0.00	2.31E-08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.86E-06	9.18E-01	5.25E-08	-5.19E-04
<b>MER</b>	kg	8.42E-06	0.00	2.17E-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.10E-08	6.91E-08	2.36E-10	-1.01E-06
<b>EE</b>	MJ	6.69E-02	0.00	9.34E-07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.86E-05	2.81E-04	1.30E-06	-7.26E-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 Prevista spare parts

Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
<b>Additional environmental impact indicators</b>															
<b>PM</b>	Disease incidence	4.20E-07	6.30E-09	6.83E-09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.46E-09	1.69E-08	5.28E-11	-1.35E-07
<b>IRP*1</b>	kBq U235-eq.	8.33E-01	8.92E-04	3.45E-06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.52E-04	1.47E-03	9.84E-06	-6.16E-02
<b>ETP-fw*2</b>	CTUe	6.19E+01	5.19E-01	1.15E-01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.61E-01	1.09E+00	3.27E-03	-1.59E+01
<b>HTP-c*2</b>	CTUh	3.05E-08	0.00	4.20E-11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.47E-11	1.54E-10	1.93E-13	-2.12E-08
<b>HTP-nc*2</b>	CTUh	4.61E-07	2.88E-11	1.80E-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.61E-10	1.69E-09	2.19E-12	-9.51E-08
<b>SQP*2</b>	dimensionless	2.82E+01	9.67E-01	7.14E-03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.99E-01	1.17E+00	1.71E-02	-3.55E+00

**Key:**

**PM** – particulate matter emissions potential    **IRP\*1** – ionizing radiation potential – human health effects    **ETP-fw\*2** - Ecotoxicity 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 ionizing 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 environmental impacts of

- Prevista Dry
- Prevista Dry Plus
- Prevista Pure
- Prevista Flush Plate
- Prevista Accessories
- Prevista Spare parts/accessories

differ significantly from each other, with PG1-3 being closer to each other in the results.

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.

The product groups Prevista Dry, Prevista Dry Plus, Prevista Pure, Prevista Accessories and Prevista Spare Parts have no emissions in the utilisation phase. The value here is therefore 0.00. As Prevista flush plates are in contact with the room air, B1 (VOC mixing calculation) was also taken into account. There are also electronic flush plates, for which expenses were calculated in B6.

The expenses for flushing cisterns (Prevista Dry, Prevista Dry Plus and Prevista Pure) also differ from those for flush plates, accessories and spare parts in terms of the packaging used. The flushing cisterns systems contain a large amount of packaging.

For the product groups of cistern systems mentioned above, there are still higher credits at the end of life due to the higher proportion of metals (depending on the environmental indicator).

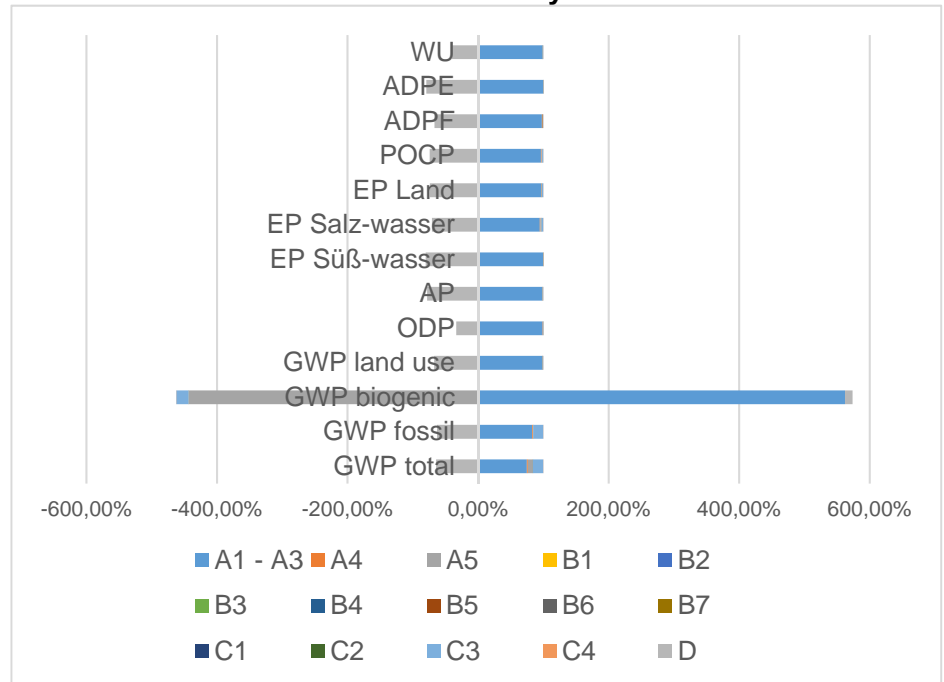
The chart below shows the nine key environmental impact indicators. The greatest environmental impacts result from the extraction of raw materials, transportation and production (A1-A3).

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

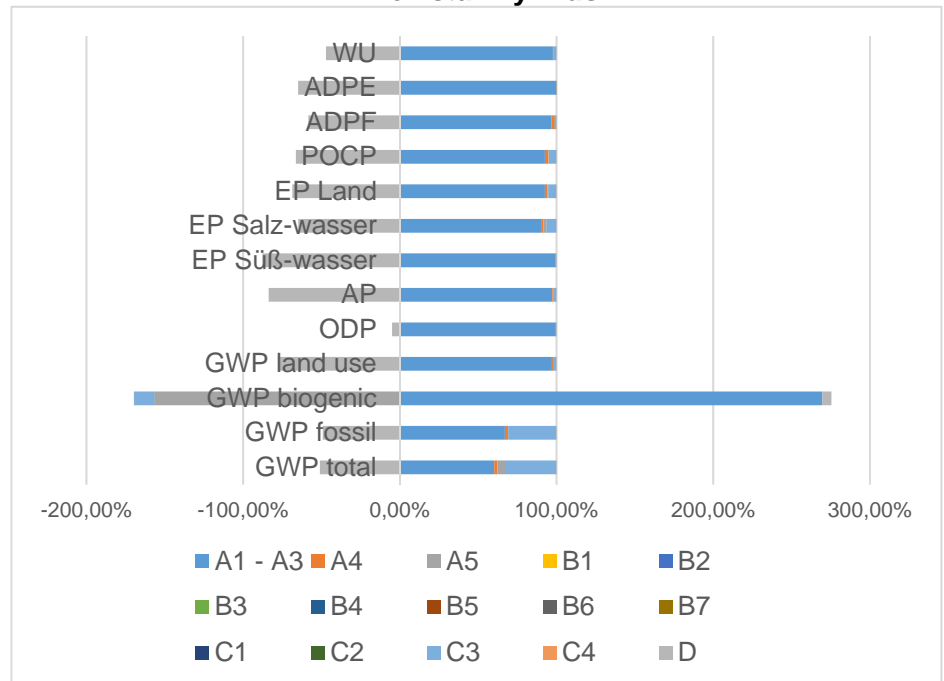
**Diagrams**

The listed diagram(s) below show the B modules with reference to the specified RSL within the building service life of 50 years.

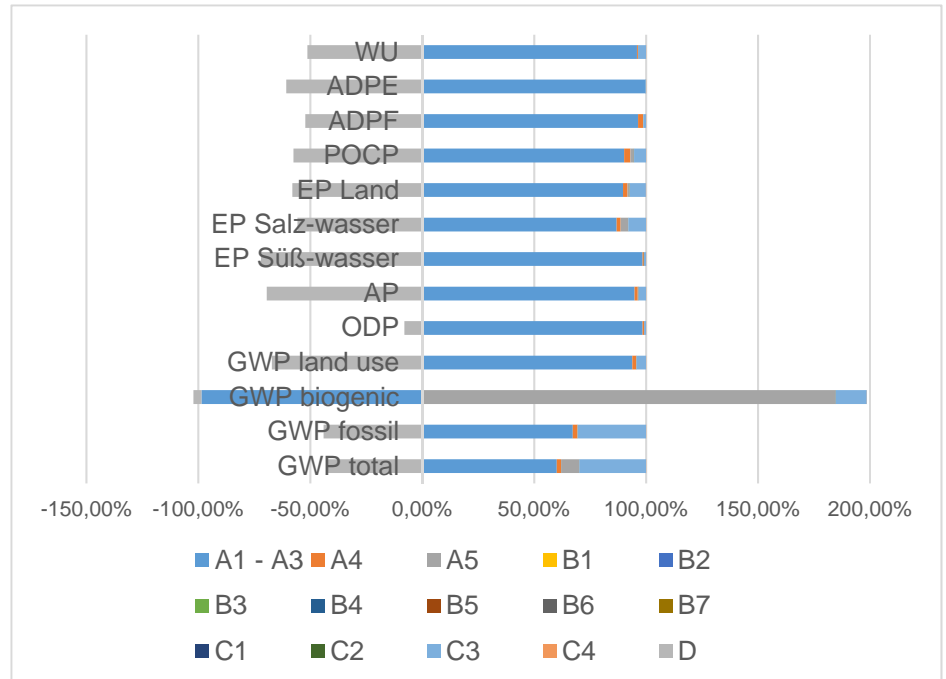
**Prevista Dry**



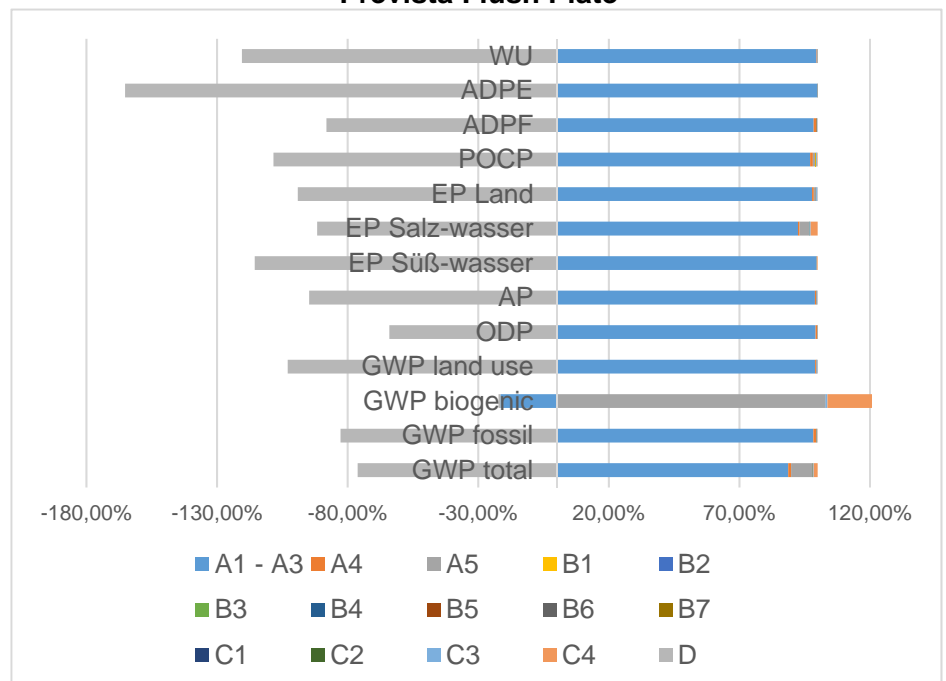
**Prevista Dry Plus**



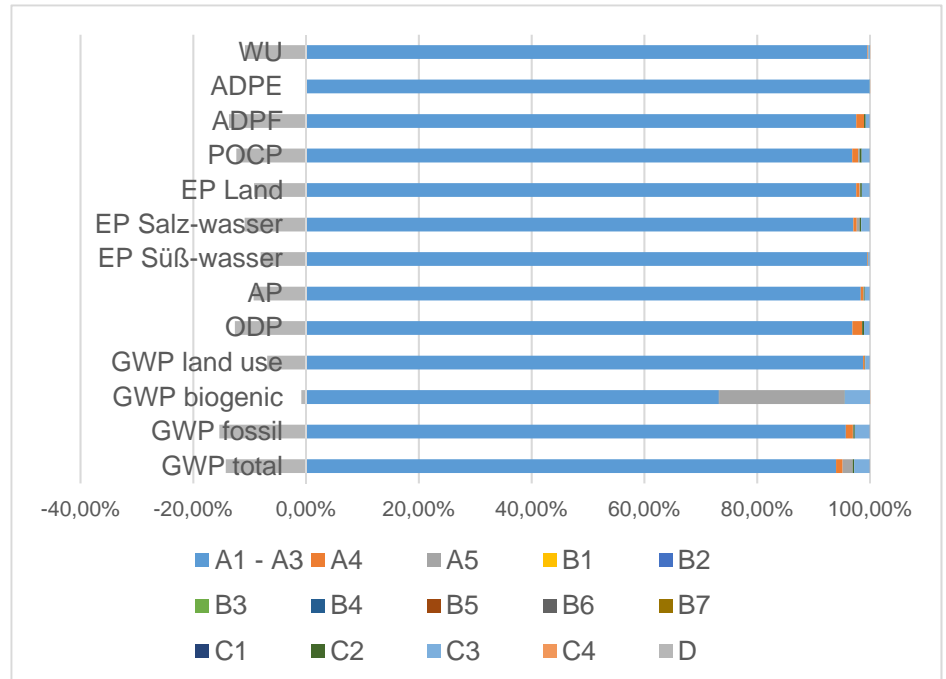
**Prevista Pure**



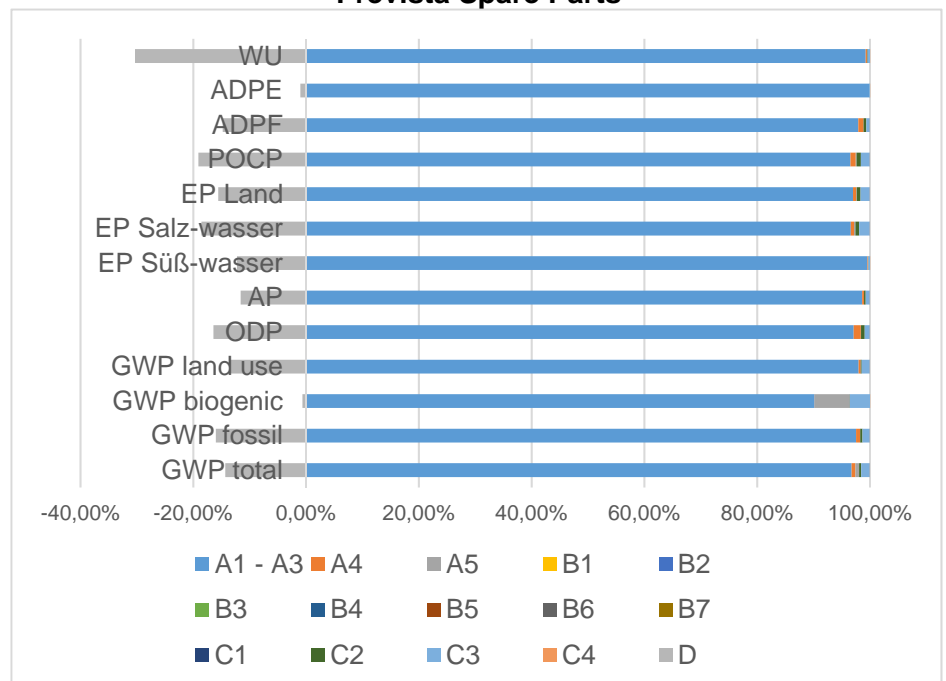
**Prevista Flush Plate**



**Prevista Accessories**



**Prevista Spare Parts**



**Illustration 3** Percentage of the modules in selected environmental impact indicators



Product group Pre-wall/flushing technology

**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 the external auditor Prof. Dr. Eric Brehm.

**7 General information regarding the EPD**

**Comparability**

This EPD was prepared according to 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 "Pre-wall/flushing technology" PCR-VS-1.0:2023.

The European standard EN 15804 serves as the core PCR <sup>a)</sup>				
Independent verification of the declaration and statement according to EN ISO 14025:2010				
Independent third party verifier: <sup>b)</sup> Eric Brehm				
<sup>a)</sup> Product category rules				
<sup>b)</sup> 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	Testing personnel
1	27.08.2024	External verification	Pscherer	Brehm

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## 9 Annex A

### Description of life cycle scenarios for Prevista pre-wall/flushing technology

Product stage			Con- struction process stage		Use stage*							End-of-life stage				Benefits and loads beyond system boundaries
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Raw material supply	Transport	production	Transport	Construction/installation process	Use	maintenance	Repair	replacement	Refurbishment	Operational energy use	Operational water use	Deconstruction/demolition	Transport	Waste processing	Disposal	Reuse 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 6** Overview of applied life cycle stages

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

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 Pre-wall/flushing technology

A4 Transport

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

<sup>1</sup> 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	Share 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 utilization	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 construction site	Transport weight [kg] per declared unit	Density [kg/m <sup>3</sup> ]	Capacity load factor <sup>2</sup>
PG1 - Prevista Dry	13.41	0.12	<1
PG2 - Prevista Dry Plus	6.57		
PG3 - Prevista Pure	7.82		
PG4 - Prevista Flush Plate	1.68		
PG5 - Prevista Accessories	0.79		
PG6 - Prevista Spare Parts	0.32		

<sup>2</sup> Capacity load factor:

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

A4 Transport to construction site per kg	Unit	A4.1	A4.2	A4.3
<b>Core indicators</b>				
GWP-t	kg CO <sub>2</sub> equivalent	6.27E-05	3.33E-04	2.81E-03
GWP-f	kg CO <sub>2</sub> equivalent	6.26E-05	3.33E-04	2.81E-03
GWP-b	kg CO <sub>2</sub> equivalent	2.18E-08	8.84E-08	7.09E-07
GWP-l	kg CO <sub>2</sub> equivalent	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 <sup>+</sup> -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 equivalent	1.81E-10	5.55E-10	4.09E-09
WDP	m <sup>3</sup> world-eq. deprived	4.74E-06	1.66E-05	1.27E-04
<b>Resource management</b>				
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

Product group Pre-wall/flushing technology

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	m³	1.30E-07	4.63E-07	3.54E-06
<b>Categories of waste</b>				
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
<b>Output material flows</b>				
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
<b>Additional environmental impact indicators</b>				
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
ETPfw	CTUe	5.01E-04	2.44E-03	2.02E-02
HTPc	CTUh	2.78E-14	9.74E-14	7.45E-13
HTPnc	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	Manual	<p>According to the manufacturer, some products require holes to be drilled in the wall.                      Assumption: Drilling machine 600 W, drilling time 10 s, power consumption 1,67E-03 kWh / drill hole.</p>

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.

The following power consumption occurs during installation:

Product group	Number of drill holes required	Power consumption [kWh]
PG1 - Prevista Dry	4	6.67E-03
PG2 - Prevista Dry Plus	6	1.00E-03
PG3 - Prevista Pure	4	6.67E-03
PG4 - Prevista Flush Plate	0	0
PG5 - Prevista Accessories	0	0
PG6 - Prevista Spare Parts	0	0

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 - Prevista Dry	2.15	0
PG2 - Prevista Dry Plus	0.47	0
PG3 - Prevista Pure	0.80	0
PG4 - Prevista Flush Plate	0.22	0
PG5 - Prevista Accessories	3.41E-02	0
PG6 - Prevista Spare Parts	8.06E-03	0

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



Product group Pre-wall/flushing technology

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

**B1 Use**

Test reports are available for the evaluation of emissions of volatile organic compounds according to ISO 16000. The following additional information is part of the life cycle assessment. The values result from a test over 28 days and were determined on the basis of a mixed sample using the worst-case approach.

Scenario	Description
Normal intended use	<p><b>Release of substances into the indoor air.</b></p> <p><b>1.0 mg/m<sup>3</sup> over 28 days;</b>  <b>13.04 mg/m<sup>3</sup> per year corresponds to an annual emission of</b>  <b>1.304*10<sup>-5</sup> kg TVOC</b></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 this is a single scenario, 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 this is a single scenario, the results are shown in the relevant summary table.



Product group Pre-wall/flushing technology

**B4 Replacement (not relevant)**

No.	Scenario	Description
<b>B4</b>	<b>No replacement</b>	<b>According to manufacturer, a replacement is not planned.</b>

\*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 this is a single scenario, 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 this is a single scenario, the results are shown in the relevant summary table.

**B6 Operational energy use**

No.	Scenario	Description
<b>B6.1</b>	<b>Manual</b>	<b>No energy consumed when used</b>
<b>B6.2</b>	<b>Power-operated normal use</b>	<b>BG motor with 0.4 mWh per operation; 4 times a day in a 4-person household Consumption of 2.176 Wh per year (340 days of use)</b>

Prevista flush plates are partly electrically operated. For the other products, there is no energy consumption during standard use. The products are operated manually.

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

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



Product group Pre-wall/flushing technology

**B7 Operational water use**

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

**C1 Deconstruction, demolition**

No.	Scenario	Description
C1	Deconstruction	<p><b>According to the manufacturer:</b></p> <p><b>99% deconstruction</b></p> <p><b>Further deconstruction rates are possible, give adequate reasons.</b></p>

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

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

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

**C2 Transport**

No.	Scenario	Description
C2	Transport	<p><b>Transport to collection point with &gt;32 t truck (Euro 4), diesel, 29.96 t payload, 53% capacity used, 50 km (1)</b></p>

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

Product group Pre-wall/flushing technology

**C3 Waste management**

No.	Scenario	Description
C3	Current market situation	<p><b>Share for recirculation of materials:</b></p> <ul style="list-style-type: none"> <li>• <b>Stainless steel 98% in melt (UBA, 2017)</b></li> <li>• <b>Remaining metals (SiBr, brass, gunmetal, nickel) 97% in melt (UBA, 2017)</b></li> <li>• <b>Copper 100% in melt (Copper Institute)</b></li> <li>• <b>Aluminium 95% in melt (GDA, 2018)</b></li> <li>• <b>Plastics 60 % thermal recycling in incineration plants (Zukunft Bauen, 2017)</b></li> <li>• <b>Plastics 40%, material recycling (Zukunft Bauen, 2017)</b></li> <li>• <b>Electronics 87% recycled (based on waste electrical and electronic equipment, UBA, 2018)</b></li> <li>• <b>Remainder in landfill (including 100 % of glass)</b></li> </ul>

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

The below table presents 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	Prevista					
		Dry	Dry Plus	Pure	Flush plates	Accessories	Spare parts
Collection process, collected separately	kg	11.63	5.82	6.96	1.48	0.75	0.31
Collection process, collected as mixed construction waste	kg	0.12	0.06	0.07	0.01	0.01	0.00
Recovery system, for re-use	kg	0.00	0.00	0.00	0.00	0.00	0.00
Recovery system, for recycling	kg	8.11	4.27	5.70	1.02	0.72	0.30
Recovery system, for energy recovery	kg	2.12	1.25	1.16	0.32	0.01	0.003
Disposal	kg	1.395	0.300	0.090	0.138	0.018	0.006

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

**C4 Disposal**

No.	Scenario	Description
C4	Disposal	<p><b>The non-recoverable quantities and losses in the recovery/recycling chain (C1 and C3) are modeled as "inert waste (Europe without Switzerland, treatment of inert waste, sanitary landfill."</b></p>

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



Product group Pre-wall/flushing technology

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);                      Copper scrap from C3 excluding the scrap used in A3 replaces 100% of copper cathode (GLO);                      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 inserted in A3 replaces 100% of gunmetal;                      Brass scrap from C3 excluding the scrap inserted in A3 replaces 100% of brass;                      Aluminium scrap from C3 excluding the scrap used in A3 replaces 100% of aluminium, sheet metal rollers (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                      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

### Prevista Dry

Material	System	Material short text GER	Material short text ENG	Model no.	Dimensions	Item no.	Weight in g	Factor
767260	Prevista Dry	8523 WC-Element - S E 9	8523 WC-ELEMENT - S E 9	8523	-	798529	14140	1.2557
767263	Prevista Dry	852312 WC-Element - 7 Z 9	852312 WC-ELEMENT - 7 Z 9	852312	-	816414	11914	1.0580
801113	Prevista Dry	857071 Befestigungselem. 1120 7 499	857071 FIXING ELEMENT 1120 7 499	857071	1120	824112	5410	0.4804
801123	Prevista Dry	857071 Befestigungselem. 1120 7 499	857071 FIXING ELEMENT 1120 7 499	857071	1120	824129	5400	0.4795
801173	Prevista Dry	85301 WC-Element 980x500 7 499	85301 WC-ELEMENT 980X500 7 499	85301	980 X 500	824174	11830	1.0506
816701	Prevista Dry	88749 WC-Element 1120x910x120 7 499	88749 WC-ELEMENT 1120X910X120 7 499	88749	1120 X 910 X 120	793074	29060	2.5807
850033	Prevista Dry	8521NU Modul / WC 420 7 H 9	8521NU MODULE/WC 420 7 H 9	8521NU	420	805500	8610	0.7646
850063	Prevista Dry	856032NUrinal-Element 420 7 H 9	856032NURINATOR ELEMENT 420 7 H 9	856032N	420	805531	5070	0.4502
850173	Prevista Dry	852238 WC-Element 1120x500 7 C 9	852238 WC-ELEMENT 1120X500 7 C 9	852238	1120 X 500	804190	12600	1.1189
850183	Prevista Dry	853038 WC-Element 980x500 7 C 9	853038 WC-ELEMENT 980X500 7 C 9	853038	980 X 500	804206	12300	1.0923
850193	Prevista Dry	853338 WC-Element 820x500 7 C 9	853338 WC-ELEMENT 820X500 7 C 9	853338	820 X 500	804213	11500	1.0213
850213	Prevista Dry	852239 WC-Element 1120x500 7 C 9	852239 WC-ELEMENT 1120X500 7 C 9	852239	1120 X 500	804220	12885	1.1443
850263	Prevista Dry	853339 WC-Element 820x500 7 C 9	853339 WC-ELEMENT 820X500 7 C 9	853339	820 X 500	804237	11700	1.0390
850383	Prevista Dry	852438 WC-Element 1120x490 7 C 9	852438 WC-ELEMENT 1120X490 7 C 9	852438	1120 X 490	804244	11100	0.9857
851174	Prevista Dry	8524 WC-Element 1120x490 7 499	8524 WC-ELEMENT 1120X490 7 499	8524	1120 X 490	771973	11150	0.9902



<b>851184</b>	Prevista Dry	8522 WC-Element 1120x500 7 499	8522 WC-ELEMENT 1120X500 7 499	8522	1120 X 500	771980	12150	1.0790
<b>851194</b>	Prevista Dry	8521 WC-Element 1120x500 7 499	8521 WC-ELEMENT 1120X500 7 499	8521	1120 X 500	771997	13500	1.1989
<b>851214</b>	Prevista Dry	8533 WC-Element 820x500 7 499	8533 WC-ELEMENT 820X500 7 499	8533	820 X 500	772017	11000	0.9769
<b>851224</b>	Prevista Dry	852132 WC-Element 1120x500 7 499	852132 WC-ELEMENT 1120X500 7 499	852132	1120 X 500	772024	25880	2.2983
<b>851234</b>	Prevista Dry	852231 WC-Element 1120x500 7 499	852231 WC-ELEMENT 1120X500 7 499	852231	1120 X 500	772031	14435	1.2819
<b>851254</b>	Prevista Dry	852233 WC-Element 1120x500 7 499	852233 WC-ELEMENT 1120X500 7 499	852233	1120 X 500	772048	11500	1.0213
<b>851264</b>	Prevista Dry	852134 WC-Element 1120x500 7 499	852134 WC-ELEMENT 1120X500 7 499	852134	1120 X 500	772055	15280	1.3569
<b>851304</b>	Prevista Dry	852536 WC-Element 1120x500 7 499	852536 WC-ELEMENT 1120X500 7 499	852536	1120 X 500	772079	15546	1.3806
<b>852294</b>	Prevista Dry	852235 WC-Element - 7 499	852235 WC-ELEMENT - 7 499	852235	-	796679	12600	1.1189
<b>852494</b>	Prevista Dry	852236 WC-Element 1120x500 7 C 9	852236 WC-ELEMENT 1120X500 7 C 9	852236	1120 X 500	803391	12850	1.1411
<b>852694</b>	Prevista Dry	852538 WC-Element 1120x500 7 499	852538 WC-ELEMENT 1120X500 7 499	852538	1120 X 500	828202	16300	1.4475
<b>852743</b>	Prevista Dry	852410 WC-Element - 7 499	852410 WC-ELEMENT - 7 499	852410	-	792824	11500	1.0213
<b>852753</b>	Prevista Dry	852411 WC-Element - 7 499	852411 WC-ELEMENT - 7 499	852411	-	792831	11500	1.0213
<b>852773</b>	Prevista Dry	852413 WC-Element - 7 499	852413 WC-ELEMENT - 7 499	852413	-	792855	11500	1.0213
<b>852783</b>	Prevista Dry	852210 WC-Element - 7 499	852210 WC-ELEMENT - 7 499	852210	-	792862	12771	1.1341
<b>852894</b>	Prevista Dry	852537 WC-Element - 7 499	852537 WC-ELEMENT - 7 499	852537	-	792589	15808	1.4038
<b>852904</b>	Prevista Dry	852414 WC-Element - 7 499	852414 WC-ELEMENT - 7 499	852414	-	792596	11500	1.0213

<b>852914</b>	Prevista Dry	852211 WC-Element - 7 499	852211 WC-ELEMENT - 7 499	852211	-	792602	12500	1.1101
<b>852924</b>	Prevista Dry	852212 WC-Element - 7 499	852212 WC-ELEMENT - 7 499	852212	-	792619	13000	1.1545
<b>852944</b>	Prevista Dry	852213 WC-Element - 7 499	852213 WC-ELEMENT - 7 499	852213	-	792633	12500	1.1101
<b>852954</b>	Prevista Dry	852416 WC-Element - 7 499	852416 WC-ELEMENT - 7 499	852416	-	792640	11500	1.0213
<b>852984</b>	Prevista Dry	852418 WC-Set - 7 499	852418 WC-SET - 7 499	852418	-	793388	11700	1.0390
<b>854984</b>	Prevista Dry	852215 WC-Element 1120x500 7 499	852215 WC-ELEMENT 1120X500 7 499	852215	1120 X 500	798772	12400	1.1012
<b>856133</b>	Prevista Dry	853312 WC-Element 820x500 7 Z 9	853312 WC-ELEMENT 820X500 7 Z 9	853312	820 X 500	830670	15600	1.3854
<b>862913</b>	Prevista Dry	853345 WC-Element 820x500 7 C 9	853345 WC-ELEMENT 820X500 7 C 9	853345	820 X 500	802608	10970	0.9742
<b>862923</b>	Prevista Dry	852245 WC-Element 1120x500 7 C 9	852245 WC-ELEMENT 1120X500 7 C 9	852245	1120 X 500	802615	11940	1.0603
<b>862933</b>	Prevista Dry	852445 WC-Element 1120x490 7 C 9	852445 WC-ELEMENT 1120X490 7 C 9	852445	1120 X 490	802622	10930	0.9706
<b>864021</b>	Prevista Dry	8535 Wascht. -Element 1120x500 7 499	8535 WASHBASIN STAND ELEMENT 11207 499	8535	1120 X 500	776183	8341	0.7407
<b>864041</b>	Prevista Dry	853531 Wascht. -Element 820-980x5007 499	853531 WASHBASIN STAND ELEMENT 820-7 499	853531	820-980 X 500	776190	7820	0.6945
<b>864051</b>	Prevista Dry	853533 Wascht. -Element 1120x500 7 499	853533 WASHBASIN STAND ELEMENT 11207 499	853533	1120 X 500	776206	11440	1.0159
<b>864061</b>	Prevista Dry	853532 Wascht. -Element 1120x500 7 499	853532 WASHBASIN STAND ELEMENT 11207 499	853532	1120 X 500	776213	29250	2.5976
<b>864071</b>	Prevista Dry	8540 Wascht. -Element 1300x500 7 499	8540 WASHBASIN STAND ELEMENT 13007 499	8540	1300 X 500	776220	9830	0.8730
<b>864081</b>	Prevista Dry	854031 Wascht. -Element 1300x500 7 499	854031 WASHBASIN STAND ELEMENT 13007 499	854031	1300 X 500	776237	10492	0.9317
<b>864111</b>	Prevista Dry	854032 Wascht. -Element 1300x500 7 499	854032 WASHBASIN STAND ELEMENT 13007 499	854032	1300 X 500	776039	9870	0.8765

<b>864121</b>	Prevista Dry	8536 Wascht. -Element 1120x500 7 499	8536 WASHBASIN STAND ELEMENT 11207 499	8536	1120 X 500	776046	8500	0.7548
<b>864131</b>	Prevista Dry	853631 Wascht. -Element 820-980x5007 499	853631 WASHBASIN STAND ELEMENT 820-7 499	853631	820-980 X 500	776251	7800	0.6927
<b>864151</b>	Prevista Dry	8537 Wascht. -Element 1120x500 7 499	8537 WASHBASIN STAND ELEMENT 11207 499	8537	1120 X 500	776268	13420	1.1918
<b>864161</b>	Prevista Dry	853731 Wascht. -Element 1120x500 7 499	853731 WASHBASIN STAND ELEMENT 11207 499	853731	1120 X 500	776275	13600	1.2078
<b>864191</b>	Prevista Dry	854033 Wascht. -Element 1300x500 7 499	854033 WASHBASIN STAND ELEMENT 13007 499	854033	1300 X 500	776282	9540	0.8472
<b>864491</b>	Prevista Dry	8560 Urinal-Element 1300x500 7 499	8560 URINATOR ELEMENT 1300X500 7 499	8560	1300 X 500	776404	11040	0.9804
<b>864511</b>	Prevista Dry	856032 Urinal-Element 1171x500 7 499	856032 URINATOR ELEMENT 1171X500 7 499	856032	1171 X 500	776411	10604	0.9417
<b>864521</b>	Prevista Dry	856031 Urinal-Element 1171x500 7 499	856031 URINATOR ELEMENT 1171X500 7 499	856031	1171 X 500	776428	10835	0.9622
<b>864651</b>	Prevista Dry	8568 Bidet-Element 1120x500 7 499	8568 BIDET ELEMENT 1120X500 7 499	8568	1120 X 500	776442	9841	0.8739
<b>864671</b>	Prevista Dry	8570 Grundelement 1120-1300x500 7 499	8570 BASIC ELEMENT 1120-1300X500 7 499	8570	1120-1300 X 500	776466	6841	0.6075
<b>864681</b>	Prevista Dry	857032 Befestigungselem. 1120x200 7 499	857032 FIXING ELEMENT 1120X200 7 499	857032	1120 X 200	776473	5810	0.5160
<b>864691</b>	Prevista Dry	857032 Befestigungselem. 1120x200 7 499	857032 FIXING ELEMENT 1120X200 7 499	857032	1120 X 200	776480	5810	0.5160
<b>864701</b>	Prevista Dry	857031 Befestigungselem. 1120x430 7 499	857031 FIXING ELEMENT 1120X430 7 499	857031	1120 X 430	776497	9693	0.8608
<b>864751</b>	Prevista Dry	8539 Wascht. -Element 1120x490 7 499	8539 WASHBASIN STAND ELEMENT 11207 499	8539	1120 X 490	776541	7850	0.6971
<b>868621</b>	Prevista Dry	8538 Wascht. -Element - 7 499	8538 WASHBASIN STAND ELEMENT - 7 499	8538	-	789329	7841	0.6963

## Prevista Dry Plus

Material	System	Material short text GER	Material short text ENG	Model no.	Dimensions	Item no.	Weight in g	Factor
807004	Prevista Dry Plus	8001 Montageschiene 3000 7 H 9	8001 MOUNTING RAIL 3000 7 H 9	8001	3000	283872	4300	0,7040
813024	Prevista Dry Plus	97662NUVerbinder 140x30x17,5 7 H 9	97662NUADAPTER 140X30X17,5 7 H 9	97662NU	140 X 30 X 17,5	760717	137	0,0224
821034	Prevista Dry Plus	843790 Nutenstein M10 7 H 9	843790 GROOVE STONE M10 7 H 9	843790	M10	494179	66	0,0108
841104	Prevista Dry Plus	8401 Schiene 5000 7 H 9	8401 BAR 5000 7 H 9	8401	5000	471781	6460	1,0577
841124	Prevista Dry Plus	84019 Schiene 1250 7 H 9	84019 BAR 1250 7 H 9	84019	1250	485306	1718	0,2813
841204	Prevista Dry Plus	8410 Verbinder - 7 H 9	8410 ADAPTER - 7 H 9	8410	-	471798	137	0,0224
841654	Prevista Dry Plus	8414 Verbinder 80-145 7 H 9	8414 ADAPTER 80-145 7 H 9	8414	80 - 145	747237	127	0,0208
842084	Prevista Dry Plus	8414NU Verbinder 30x23 7 H 9	8414NU ADAPTER 30X23 7 H 9	8414NU	30 X 23	827595	26,7	0,0044
842614	Prevista Dry Plus	8401NU Schiene 5000 7 H 9	8401NU BAR 5000 7 H 9	8401NU	5000	491581	6500	1,0642
842664	Prevista Dry Plus	8401NU Schiene 3000 7 H 9	8401NU BAR 3000 7 H 9	8401NU	3000	734435	3900	0,6385
842694	Prevista Dry Plus	84105NUVerbinder - 7 H 9	84105NUADAPTER - 7 H 9	84105NU	-	495152	139	0,0228
850083	Prevista Dry Plus	8555NU Wascht. -Modul 420 7 H 9	8555NU WASHBASIN MODULE 420 7 H 9	8555NU	420	805951	2590	0,4241
850103	Prevista Dry Plus	8545NU Wascht. -Modul 420 7 H 9	8545NU WASHBASIN MODULE 420 7 H 9	8545NU	420	805975	1768,5	0,2896
852584	Prevista Dry Plus	852250 WC-Element 1120x500Set1 7 499	852250 WC-element 1120x500Set1 7 499	852250	1120 X 500 SET 1	827113	12450	2,0384
852594	Prevista Dry Plus	852251 WC-Element 1120x500Set2 7 499	852251 WC-element 1120x500Set2 7 499	852251	1120 X 500 SET 2	827120	12450	2,0384

<b>864221</b>	Prevista Dry Plus	8545 Wascht. -Modul 420 7 499	8545 WASHBASIN MODULE 420 7 499	8545	420	776299	2598,9	0,4255
<b>864231</b>	Prevista Dry Plus	854531 Wascht. -Modul 420 7 H 9	854531 WASHBASIN MODULE 420 7 H 9	854531	420	776305	2675	0,4380
<b>864291</b>	Prevista Dry Plus	854532 Wascht. -Modul 420 7 499	854532 WASHBASIN MODULE 420 7 499	854532	420	776312	5100	0,8350
<b>864304</b>	Prevista Dry Plus	8555 Armaturenräger 420 7 H 9	8555 FIXTURE SUPPORT JOISTS 420 7 H 9	8555	420	776329	972,4	0,1592
<b>864314</b>	Prevista Dry Plus	855531 Armaturenräger 420 7 H 9	855531 FIXTURE SUPPORT JOISTS 420 7 H 9	855531	420	776336	1046,4	0,1713
<b>864324</b>	Prevista Dry Plus	855532 Armaturenräger 420 7 H 9	855532 FIXTURE SUPPORT JOISTS 420 7 H 9	855532	420	776343	834	0,1365
<b>864334</b>	Prevista Dry Plus	855533 Armaturenräger 420 7 H 9	855533 FIXTURE SUPPORT JOISTS 420 7 H 9	855533	420	776350	823,5	0,1348
<b>864384</b>	Prevista Dry Plus	855534 Armaturenräger 420 7 H 9	855534 FIXTURE SUPPORT JOISTS 420 7 H 9	855534	420	776367	1687	0,2762
<b>864394</b>	Prevista Dry Plus	855538 Armaturenräger 420 7 H 9	855538 FIXTURE SUPPORT JOISTS 420 7 H 9	855538	420	776374	1889	0,3093
<b>864463</b>	Prevista Dry Plus	8561 Urinal-Modul 1120- 1300x420 7 H 9	8561 URINAL MODULE 1120-1300X420 7 H 9	8561	1120 - 1300 X 420	824105	5210	0,8530
<b>864464</b>	Prevista Dry Plus	855535 Armaturenräger 130 7 H 9	855535 FIXTURE SUPPORT JOISTS 130 7 H 9	855535	130	776381	1044	0,1709
<b>864474</b>	Prevista Dry Plus	855536 Armaturenräger 100 7 H 9	855536 FIXTURE SUPPORT JOISTS 100 7 H 9	855536	100	776398	1113,5	0,1823
<b>864571</b>	Prevista Dry Plus	8565 Urinal-Modul 420 7 499	8565 URINAL MODULE 420 7 499	8565	420	776435	2567,5	0,4204
<b>864744</b>	Prevista Dry Plus	857035 Befestigungsschiene 420 7 H 9	857035 MOUNTING BAND 420 7 H 9	857035	420	776534	805	0,1318
<b>864764</b>	Prevista Dry Plus	8558 Armaturenräger 420 7 H 9	8558 FIXTURE SUPPORT JOISTS 420 7 H 9	8558	420	776558	855	0,1400
<b>864993</b>	Prevista Dry Plus	8515 Modul / WC 1120- 980x420 7 H 9	8515 MODULE/WC 1120- 980X420 7 H 9	8515	1120 - 980 X 420	824099	10500	1,7191

## Prevista Pure

Material	System	Material short text GER	Material short text ENG	Model no.	Dimensions	Item no.	Weight in g	Factor
<b>765860</b>	Prevista Pure	K85013 Spülkasten 410x105 5 E 9	831080 CONNECTION SET 300 5 DM9	K85013	410 X 105	785567	2800	0,3987
<b>765870</b>	Prevista Pure	K88747 Spülkasten 410x105 5 E 9	K85013 FLUSH CISTERNS 410X105 5 E 9	K88747	410 X 105	785574	2500	0,3560
<b>767030</b>	Prevista Pure	8503 Spülkasten - 5 E 9	K88747 FLUSH CISTERNS 410X105 5 E 9	8503	-	799410	2829	0,4029
<b>767044</b>	Prevista Pure	8513 WC-Element 1070 7 H 9	8503 FLUSH CISTERNS - 5 E 9	8513	1070	799427	7570	1,0780
<b>767183</b>	Prevista Pure	851331 WC-Element 1070 7 H 9	8513 WC-ELEMENT 1070 7 H 9	851331	1070	798598	8400	1,1962
<b>767270</b>	Prevista Pure	K8503 Spülkasten - 5 E 9	851331 WC-ELEMENT 1070 7 H 9	K8503	-	798536	4060	0,5782
<b>767310</b>	Prevista Pure	K8513 WC-Element - S E 9	K8503 FLUSH CISTERNS - 5 E 9	K8513	-	798543	7950	1,1322
<b>767614</b>	Prevista Pure	K85103 Mono-Tec-WC- Element 757x467 7 H 9	K8513 WC-ELEMENT - S E 9	K85103	757 X 467	792428	7486	1,0661
<b>767624</b>	Prevista Pure	K85153 Mono-Tec-WC- Element 520x467 7 H 9	K85103 MONO TEC WC BLOCK 757X467 7 H 9	K85153	520 X 467	792435	6400	0,9114
<b>767634</b>	Prevista Pure	K85203 WC-Element 1120x500 7 H 9	K85153 MONO TEC WC BLOCK 520X467 7 H 9	K85203	1120 X 500	792657	10500	1,4953
<b>767640</b>	Prevista Pure	K88738 Spülkasten 410x105 5 E 9	K85203 WC-ELEMENT 1120X500 7 H 9	K88738	410 X 105	792664	2475	0,3525
<b>850413</b>	Prevista Pure	850238 Spülkasten 420 5 E 9	850238 FLUSH CISTERNS 420 5 E 9	850238	420	804657	2750	0,3916
<b>850483</b>	Prevista Pure	850438 Spülkasten 420 5 E 9	850438 FLUSH CISTERNS 420 5 E 9	850438	420	804664	3090	0,4400
<b>851094</b>	Prevista Pure	8502 Spülkasten 420 5 E 9	8502 FLUSH CISTERNS 420 5 E 9	8502	420	771904	2750	0,3916
<b>851114</b>	Prevista Pure	8512 WC-Block 1077 7 H 9	8512 WC BLOCK 1077 7 H 9	8512	1077	771928	6500	0,9257
<b>851154</b>	Prevista Pure	851231 WC block 1077 7 H 9	851231 WC block 1077 7 H 9	851231	1077	771959	7.500	1,0681

<b>854860</b>	Prevista Pure	85024 Spülkasten - 5 E 9	85024 FLUSH CISTERNS - 5 E 9	85024	-	797454	2356	0,3355
<b>854870</b>	Prevista Pure	85022 Spülkasten - 5 E 9	85022 FLUSH CISTERNS - 5 E 9	85022	-	798291	2530	0,3603
<b>855060</b>	Prevista Pure	8504 Spülkasten 420 5 E 9	8504 FLUSH CISTERNS 420 5 E 9	8504	420	801090	3230	0,4600
<b>864794</b>	Prevista Pure	8550 Wascht. -Block 500 7 H 9	8550 WASHBASIN BLOCK 500 7 H 9	8550	500	776596	2107,2	0,3001
<b>896150</b>	Prevista Pure	88750WN Spülkasten 420 5 E 9	88750WN FLUSH CISTERNS 420 5 E 9	88750WN	420	817350	2700	0,3845

### Prevista Flush Plates

Material	System	Material short text GER	Material short text ENG	Model no.	Dimensions	Item no.	Weight in g	Factor
<b>765897</b>	Flush plates	K86013 Betät.pl. VisignforLife5(R) 5 7 9	K86013 FLUSH PLATE VISIGNFORLIFE5(R)5 7 9	K86013	VISIGNFORLIFE5(R)	785581	300	0.2061
<b>766017</b>	Flush plates	K86023 Betät.pl. VisignforLife6(E) 5 7 9	K86023 FLUSH PLATE VISIGNFORLIFE6(E)5 7 9	K86023	VISIGNFORLIFE6(E)	786953	300	0.2061
<b>767661</b>	Flush plates	K86013 Betät.pl. VisignforLife5(R) 5 1G9	K86013 FLUSH PLATE VISIGNFORLIFE5(R)5 1G9	K86013	VISIGNFORLIFE5(R)	792688	300	0.2061
<b>767674</b>	Flush plates	K86013 Betät.pl. VisignforLife5(R) 5 DM9	K86013 FLUSH PLATE VISIGNFORLIFE5(R)5 DM9	K86013	VISIGNFORLIFE5(R)	792695	300	0.2061
<b>767681</b>	Flush plates	K86023 Betät.pl. VisignforLife6(E) 5 1G9	K86023 FLUSH PLATE VISIGNFORLIFE6(E)5 1G9	K86023	VISIGNFORLIFE6(E)	792701	300	0.2061
<b>767694</b>	Flush plates	K86023 Betät.pl. VisignforLife6(E) 5 DM9	K86023 FLUSH PLATE VISIGNFORLIFE6(E)5 DM9	K86023	VISIGNFORLIFE6(E)	792718	300	0.2061
<b>773232</b>	Flush plates	K86013 Abdeckplatte 220x130x26(R) 5SE 7	K86013 cover 220x130x26(R) 5SE 7	K86013 112	220X130X26(R)	k.A.	112.4	0.0772
<b>773242</b>	Flush plates	K86013 Druckstück 106x58x23(R) 5SE 7	K86013 pressure piece 106x58x23(R) 5SE 7	K86013 194	106X58X23(R)	k.A.	28	0.0192
<b>773252</b>	Flush plates	K86013 Druckstück 71x58x23(R) 5SE 7	K86013 pressure piece 71x58x23(R) 5SE 7	K86013 194	71X58X23(R)	k.A.	19.4	0.0133
<b>773262</b>	Flush plates	K86023 Abdeckplatte 220x130x26(E) 5SE 7	K86023 cover 220x130x26(E) 5SE 7	K86023 112	220X130X26(E)	k.A.	116.3	0.0799

<b>773272</b>	Flush plates	K86023 Druckstück 106x58x27(E) 5SE 7	K86023 pressure piece 106x58x27(E) 5SE 7	K86023 194	106 X 58 X 27(E)	k.A.	27.9	0.0192
<b>773282</b>	Flush plates	K86023 Druckstück 71x58x23(E) 5SE 7	K86023 pressure piece 71x58x23(E) 5SE 7	K86023 194	71X58X23(E)	k.A.	18.8	0.0129
<b>777763</b>	Flush plates	K86013 Betät.pl. VisignforLife5 5 1K9	K86013 FLUSH PLATE VISIGNFORLIFE5 5 1K9	K86013	VISIGN FOR LIFE 5	834043	300	0.2061
<b>777783</b>	Flush plates	K86023 Betät.pl. VisignforLife6 5 1K9	K86023 FLUSH PLATE VISIGNFORLIFE6 5 1K9	K86023	VISIGN FOR LIFE 6	834067	300	0.2061
<b>820207</b>	Flush plates	86131 Betät.pl. VisignforStyle23 5 7 9	86131 FLUSH PLATE VISIGNFORSTYLE235 7 9	86131	VISIGN FOR STYLE23	773052	226	0.1552
<b>820211</b>	Flush plates	86131 Betät.pl. VisignforStyle23 5 1G9	86131 FLUSH PLATE VISIGNFORSTYLE235 1G9	86131	VISIGN FOR STYLE23	773069	205	0.1408
<b>820244</b>	Flush plates	86131 Betät.pl. VisignforStyle23 5 DM9	86131 FLUSH PLATE VISIGNFORSTYLE235 DM9	86131	VISIGN FOR STYLE23	773151	210	0.1443
<b>820251</b>	Flush plates	86131 Betät.pl. VisignforStyle23 5 LA9	86131 FLUSH PLATE VISIGNFORSTYLE235 LA9	86131	VISIGN FOR STYLE23	773168	227	0.1559
<b>820261</b>	Flush plates	86131 Betät.pl. VisignforStyle23 5 1A9	86131 FLUSH PLATE VISIGNFORSTYLE235 1A9	86131	VISIGN FOR STYLE23	773175	219	0.1504
<b>820290</b>	Flush plates	86131 Betät.pl. VisignforStyle23 5L1B9	86131 FLUSH PLATE VISIGNFORSTYLE235L1B9	86131	VISIGN FOR STYLE23	773182	428	0.2940
<b>820291</b>	Flush plates	86131 Betät.pl. VisignforStyle23 5L1A9	86131 FLUSH PLATE VISIGNFORSTYLE235L1A9	86131	VISIGN FOR STYLE23	773199	620	0.4259
<b>820302</b>	Flush plates	86131 Betät.pl. VisignforStyle23 5 NA9	86131 FLUSH PLATE VISIGNFORSTYLE235 NA9	86131	VISIGN FOR STYLE23	773205	527.85	0.3626
<b>820313</b>	Flush plates	86131 Betät.pl. VisignforStyle23 5 PA9	86131 flush plate VisignforStyle235 PA9	86131	VISIGN FOR STYLE23	773212	871	0.5983
<b>820329</b>	Flush plates	86131 Betät.pl. VisignforStyle23 5 RA9	86131 flush plate VisignforStyle235 RA9	86131	VISIGN FOR STYLE23	773229	873	0.5997
<b>820447</b>	Flush plates	86111 Betät.pl. VisignforStyle21 5 7 9	86111 FLUSH PLATE VISIGNFORSTYLE215 7 9	86111	VISIGN FOR STYLE21	773236	205	0.1408
<b>820481</b>	Flush plates	86111 Betät.pl. VisignforStyle21 5 1G9	86111 FLUSH PLATE VISIGNFORSTYLE215 1G9	86111	VISIGN FOR STYLE21	773243	189	0.1298
<b>820494</b>	Flush plates	86111 Betät.pl. VisignforStyle21 5 DM9	86111 FLUSH PLATE VISIGNFORSTYLE215 DM9	86111	VISIGN FOR STYLE21	773250	195	0.1339



<b>820501</b>	Flush plates	86111 Betät.pl. VisignforStyle21 5 1K9	86111 FLUSH PLATE VISIGNFORSTYLE215 1K9	86111	VISIGN FOR STYLE21	801724	203	0.1394
<b>820511</b>	Flush plates	86131 Betät.pl. VisignforStyle23 5 1K9	86131 FLUSH PLATE VISIGNFORSTYLE235 1K9	86131	VISIGN FOR STYLE23	801731	218.1	0.1498
<b>820551</b>	Flush plates	86141 Betät.pl. VisignforStyle24 5 1K9	86141 FLUSH PLATE VISIGNFORSTYLE245 1K9	86141	VISIGN FOR STYLE24	801748	206.5	0.1418
<b>820647</b>	Flush plates	86141 Betät.pl. VisignforStyle24 5 7 9	86141 FLUSH PLATE VISIGNFORSTYLE245 7 9	86141	VISIGN FOR STYLE24	773267	216	0.1484
<b>820651</b>	Flush plates	86141 Betät.pl. VisignforStyle24 5 1G9	86141 FLUSH PLATE VISIGNFORSTYLE245 1G9	86141	VISIGN FOR STYLE24	773274	200	0.1374
<b>820664</b>	Flush plates	86141 Betät.pl. VisignforStyle24 5 DM9	86141 FLUSH PLATE VISIGNFORSTYLE245 DM9	86141	VISIGN FOR STYLE24	773281	204	0.1401
<b>820671</b>	Flush plates	86141 Betät.pl. VisignforStyle24 5 LA9	86141 FLUSH PLATE VISIGNFORSTYLE245 LA9	86141	VISIGN FOR STYLE24	773298	234.85	0.1613
<b>820711</b>	Flush plates	86141 Betät.pl. VisignforStyle24 5 1A9	86141 FLUSH PLATE VISIGNFORSTYLE245 1A9	86141	VISIGN FOR STYLE24	773304	217	0.1491
<b>820720</b>	Flush plates	86141 Betät.pl. VisignforStyle24 5L1B9	86141 FLUSH PLATE VISIGNFORSTYLE245L1B9	86141	VISIGN FOR STYLE24	773328	613.45	0.4214
<b>820841</b>	Flush plates	86141 Betät.pl. VisignforStyle24 5L1A9	86141 FLUSH PLATE VISIGNFORSTYLE245L1A9	86141	VISIGN FOR STYLE24	773311	607.4	0.4172
<b>820852</b>	Flush plates	86141 Betät.pl. VisignforStyle24 5 NA9	86141 flush plate VisignforStyle245 NA9	86141	VISIGN FOR STYLE24	773335	781	0.5365
<b>820983</b>	Flush plates	86141 Betät.pl. VisignforStyle24 5 PA9	86141 flush plate VisignforStyle245 PA9	86141	VISIGN FOR STYLE24	773342	216	0.1484
<b>821007</b>	Flush plates	86401 Betät.pl. VisignforRemote1 5 7 9	86401 FLUSH PLATE VISIGNFORREMOTE15 7 9	86401	VISIGN FOR REMOTE1	773076	169	0.1161
<b>821014</b>	Flush plates	86401 Betät.pl. VisignforRemote1 5 DM9	86401 FLUSH PLATE VISIGNFORREMOTE15 DM9	86401	VISIGN FOR REMOTE1	773083	167	0.1147
<b>821051</b>	Flush plates	86411 Betät.pl. VisignforRemote2 D CH9	86411 FLUSH PLATE VISIGNFORREMOTE2D CH9	86411	VISIGN FOR REMOTE2	773090	624	0.4286
<b>821061</b>	Flush plates	86411 Betät.pl. VisignforRemote2 D 1A9	86411 FLUSH PLATE VISIGNFORREMOTE2D 1A9	86411	VISIGN FOR REMOTE2	773106	625	0.4293
<b>821202</b>	Flush plates	86221 Betät.pl. VisignforMore202 Z CH9	86221 FLUSH PLATE VISIGNFORMORE202Z CH9	86221	VISIGN FOR MORE202	773458	1219.2	0.8375

<b>821217</b>	Flush plates	86221 Betät.pl. VisignforMore202 Z 7 9	86221 FLUSH PLATE VISIGNFORMORE202Z 7 9	86221	VISIGN FOR MORE202	773465	1220	0.8380
<b>821259</b>	Flush plates	86221 Betät.pl. VisignforMore202 Z RA9	86221 FLUSH PLATE VISIGNFORMORE202Z RA9	86221	VISIGN FOR MORE202	773496	1250	0.8586
<b>821442</b>	Flush plates	86211 Betät.pl. VisignforMore201 E CH9	86211 FLUSH PLATE VISIGNFORMORE201E CH9	86211	VISIGN FOR MORE201	773502	388.5	0.2669
<b>821453</b>	Flush plates	86211 Betät.pl. VisignforMore201 E 4B9	86211 FLUSH PLATE VISIGNFORMORE201E 4B9	86211	VISIGN FOR MORE201	773519	770	0.5289
<b>821461</b>	Flush plates	86211 Betät.pl. VisignforMore201 E 239	86211 FLUSH PLATE VISIGNFORMORE201E 239	86211	VISIGN FOR MORE201	773526	733.2	0.5036
<b>821511</b>	Flush plates	86201 Betät.pl. VisignforMore200 S GH9	86201 FLUSH PLATE VISIGNFORMORE200S GH9	86201	VISIGN FOR MORE200	773564	841	0.5777
<b>821522</b>	Flush plates	86201 Betät.pl. VisignforMore200 D CH9	86201 FLUSH PLATE VISIGNFORMORE200D CH9	86201	VISIGN FOR MORE200	773571	617.5	0.4242
<b>821531</b>	Flush plates	86201 Betät.pl. VisignforMore200 D 1A9	86201 FLUSH PLATE VISIGNFORMORE200D 1A9	86201	VISIGN FOR MORE200	773588	830	0.5701
<b>821543</b>	Flush plates	86201 Betät.pl. VisignforMore200 B 4B9	86201 FLUSH PLATE VISIGNFORMORE200B 4B9	86201	VISIGN FOR MORE200	773595	873	0.5997
<b>821555</b>	Flush plates	86201 Betät.pl. VisignforMore200 B 8S9	86201 FLUSH PLATE VISIGNFORMORE200B 8S9	86201	VISIGN FOR MORE200	773601	857.5	0.5890
<b>821607</b>	Flush plates	86241 Betät.pl. VisignforMore204 E 3 9	86241 FLUSH PLATE VISIGNFORMORE204E 3 9	86241	VISIGN FOR MORE204	773649	847.5	0.5822
<b>821623</b>	Flush plates	86241 Betät.pl. VisignforMore204 E 4B9	86241 FLUSH PLATE VISIGNFORMORE204E 4B9	86241	VISIGN FOR MORE204	773656	1040	0.7144
<b>821631</b>	Flush plates	86241 Betät.pl. VisignforMore204 E 239	86241 FLUSH PLATE VISIGNFORMORE204E 239	86241	VISIGN FOR MORE204	773663	1202	0.8257
<b>821641</b>	Flush plates	86241 Betät.pl. VisignforMore204 E 4B9	86241 FLUSH PLATE VISIGNFORMORE204E 4B9	86241	VISIGN FOR MORE204	773670	1140	0.7831
<b>821663</b>	Flush plates	86241 Betät.pl. VisignforMore204 E PA9	86241 FLUSH PLATE VISIGNFORMORE204E PA9	86241	VISIGN FOR MORE204	773694	600	0.4121
<b>821707</b>	Flush plates	86011 Betät.pl. VisignforLife5 5 7 9	86011 FLUSH PLATE VISIGNFORLIFE5 5 7 9	86011	VISIGN FOR LIFE 5	773717	223	0.1532
<b>821711</b>	Flush plates	86011 Betät.pl. VisignforLife5 5 1G9	86011 FLUSH PLATE VISIGNFORLIFE5 5 1G9	86011	VISIGN FOR LIFE 5	773724	211.2	0.1451

<b>821834</b>	Flush plates	86011 Betät.pl. VisignforLife5 5 DM9	86011 FLUSH PLATE VISIGNFORLIFE5 5 DM9	86011	VISIGN FOR LIFE 5	773731	219.4	0.1507
<b>821857</b>	Flush plates	86021 Betät.pl. VisignforLife6 5 7 9	86021 FLUSH PLATE VISIGNFORLIFE6 5 7 9	86021	VISIGN FOR LIFE 6	773748	228.7	0.1571
<b>821921</b>	Flush plates	86021 Betät.pl. VisignforLife6 5 1G9	86021 FLUSH PLATE VISIGNFORLIFE6 5 1G9	86021	VISIGN FOR LIFE 6	773755	206	0.1415
<b>821934</b>	Flush plates	86021 Betät.pl. VisignforLife6 5 DM9	86021 FLUSH PLATE VISIGNFORLIFE6 5 DM9	86021	VISIGN FOR LIFE 6	773762	222	0.1525
<b>821947</b>	Flush plates	86101 Betät.pl. VisignforStyle20 5 7 9	86101 FLUSH PLATE VISIGNFORSTYLE205 7 9	86101	VISIGN FOR STYLE20	773779	208	0.1429
<b>821971</b>	Flush plates	86101 Betät.pl. VisignforStyle20 5 1G9	86101 FLUSH PLATE VISIGNFORSTYLE205 1G9	86101	VISIGN FOR STYLE20	773786	191	0.1312
<b>821994</b>	Flush plates	86101 Betät.pl. VisignforStyle20 5 DM9	86101 FLUSH PLATE VISIGNFORSTYLE205 DM9	86101	VISIGN FOR STYLE20	773793	203	0.1394
<b>822931</b>	Flush plates	86311 Betät.pl. VisignforPublic11 E 239	86311 FLUSH PLATE VISIGNFORPUBLIC1E 239	86311	VISIGN FORPUBLIC11	774325	553.3	0.3801
<b>822942</b>	Flush plates	86311 Betät.pl. VisignforPublic11 E CH9	86311 FLUSH PLATE VISIGNFORPUBLIC1E CH9	86311	VISIGN FORPUBLIC11	774332	605	0.4156
<b>822951</b>	Flush plates	86301 Betät.pl. VisignforPublic10 E 239	86301 FLUSH PLATE VISIGNFORPUBLIC1E 239	86301	VISIGN FORPUBLIC10	774349	475	0.3263
<b>822974</b>	Flush plates	86151 Betät.pl. VisignforStyle25s 5 DM9	86151 FLUSH PLATE VISIGNFORSTYLE255 DM9	86151	VISIGN FORSTYLE25S	774356	235	0.1614
<b>822981</b>	Flush plates	86251 Betät.pl. VisignforMore205s D 1A9	86251 FLUSH PLATE VISIGNFORMORE205D 1A9	86251	VISIGN FORMORE205S	774363	516.9	0.3551
<b>823401</b>	Flush plates	86351 Betät.pl. VisignforPublic12IE 239	86351 FLUSH PLATE VISIGNFORPUBLIC1E 239	86351	VISIGNFORPUBLIC12I	774370	595	0.4087
<b>823412</b>	Flush plates	86351 Betät.pl. VisignforPublic12IE CH9	86351 FLUSH PLATE VISIGNFORPUBLIC1E CH9	86351	VISIGNFORPUBLIC12I	774387	611	0.4197
<b>823607</b>	Flush plates	86102 Ausst.set VisignforStyle20 5 7 9	86102 EQUIPMENT SET VISIGNFORSTYLE5 7 9	86102	VISIGN FOR STYLE20	774479	237	0.1628
<b>823611</b>	Flush plates	86102 Ausst.set VisignforStyle20 5 1G9	86102 EQUIPMENT SET VISIGNFORSTYLE5 1G9	86102	VISIGN FOR STYLE20	774486	226	0.1552
<b>823624</b>	Flush plates	86102 Ausst.set VisignforStyle20 5 DM9	86102 EQUIPMENT SET VISIGNFORSTYLE5 DM9	86102	VISIGN FOR STYLE20	774493	213.3	0.1465

<b>823637</b>	Flush plates	86112 Ausst.set VisignforStyle21 5 7 9	86112 EQUIPMENT SET VISIGNFORSTYLE5 7 9	86112	VISIGN FOR STYLE21	774509	236.5	0.1625
<b>823641</b>	Flush plates	86112 Ausst.set VisignforStyle21 5 1G9	86112 EQUIPMENT SET VISIGNFORSTYLE5 1G9	86112	VISIGN FOR STYLE21	774516	228	0.1566
<b>823664</b>	Flush plates	86112 Ausst.set VisignforStyle21 5 DM9	86112 EQUIPMENT SET VISIGNFORSTYLE5 DM9	86112	VISIGN FOR STYLE21	774523	226	0.1552
<b>823677</b>	Flush plates	86132 Ausst.set VisignforStyle23 5 7 9	86132 EQUIPMENT SET VISIGNFORSTYLE5 7 9	86132	VISIGN FOR STYLE23	774530	285	0.1958
<b>823681</b>	Flush plates	86132 Ausst.set VisignforStyle23 5 1G9	86132 EQUIPMENT SET VISIGNFORSTYLE5 1G9	86132	VISIGN FOR STYLE23	774547	215	0.1477
<b>823694</b>	Flush plates	86132 Ausst.set VisignforStyle23 5 DM9	86132 EQUIPMENT SET VISIGNFORSTYLE5 DM9	86132	VISIGN FOR STYLE23	774554	220	0.1511
<b>823701</b>	Flush plates	86132 Ausst.set VisignforStyle23 5 LA9	86132 EQUIPMENT SET VISIGNFORSTYLE5 LA9	86132	VISIGN FOR STYLE23	774561	228	0.1566
<b>823711</b>	Flush plates	86132 Ausst.set VisignforStyle23 5 1A9	86132 EQUIPMENT SET VISIGNFORSTYLE5 1A9	86132	VISIGN FOR STYLE23	774578	220	0.1511
<b>823720</b>	Flush plates	86132 Ausst.set VisignforStyle23 5L1B9	86132 EQUIPMENT SET VISIGNFORSTYLE5L1B9	86132	VISIGN FOR STYLE23	774585	530	0.3641
<b>823731</b>	Flush plates	86132 Ausst.set VisignforStyle23 5 1A9	86132 EQUIPMENT SET VISIGNFORSTYLE5 1A9	86132	VISIGN FOR STYLE23	774592	579	0.3977
<b>823781</b>	Flush plates	86312 Ausst.set VisignforPublic11 E 239	86312 EQUIPMENT SET VISIGNFORPUBLIE 239	86312	VISIGN FORPUBLIC11	774608	312.5	0.2147
<b>823882</b>	Flush plates	86312 Ausst.set VisignforPublic11 E CH9	86312 EQUIPMENT SET VISIGNFORPUBLIE CH9	86312	VISIGN FORPUBLIC11	774615	380	0.2610
<b>823901</b>	Flush plates	86102 Ausst.set VisignforStyle20 5 1K9	86102 EQUIPMENT SET VISIGNFORSTYLE5 1K9	86102	VISIGN FOR STYLE20	817947	279.7	0.1921
<b>824001</b>	Flush plates	86112 Ausst.set VisignforStyle21 5 1K9	86112 EQUIPMENT SET VISIGNFORSTYLE5 1K9	86112	VISIGN FOR STYLE21	818050	220.3	0.1513
<b>826457</b>	Flush plates	86202 Ausst.set VisignforMore200 5 7 9	86202 EQUIPMENT SET VISIGNFORMORE25 7 9	86202	VISIGN FOR MORE200	774622	625	0.4293
<b>826474</b>	Flush plates	86202 Ausst.set VisignforMore200 5 DM9	86202 EQUIPMENT SET VISIGNFORMORE25 DM9	86202	VISIGN FOR MORE200	774639	608.9	0.4183
<b>826481</b>	Flush plates	86202 Ausst.set VisignforMore200 5 LA9	86202 EQUIPMENT SET VISIGNFORMORE25 LA9	86202	VISIGN FOR MORE200	774646	609.9	0.4189

<b>826491</b>	Flush plates	86202 Ausst.set VisignforMore200 S GH9	86202 EQUIPMENT SET VISIGNFORMORE2S GH9	86202	VISIGN FOR MORE200	774653	673	0.4623
<b>826502</b>	Flush plates	86202 Ausst.set VisignforMore200 D CH9	86202 EQUIPMENT SET VISIGNFORMORE2D CH9	86202	VISIGN FOR MORE200	774660	701	0.4815
<b>826503</b>	Flush plates	86202 Ausst.set VisignforMore200 5 1K9	86202 EQUIPMENT SET VISIGNFORMORE25 1K9	86202	VISIGN FOR MORE200	814090	630	0.4328
<b>826511</b>	Flush plates	86202 Ausst.set VisignforMore200 D 1A9	86202 EQUIPMENT SET VISIGNFORMORE2D 1A9	86202	VISIGN FOR MORE200	774677	701	0.4815
<b>828251</b>	Flush plates	86352 Ausst.set VisignforPublic12 E 239	86352 EQUIPMENT SET VISIGNFORPUBLIE 239	86352	VISIGN FORPUBLIC12	774684	610	0.4190
<b>828262</b>	Flush plates	86352 Ausst.set VisignforPublic12 E CH9	86352 EQUIPMENT SET VISIGNFORPUBLIE CH9	86352	VISIGN FORPUBLIC12	774691	734	0.5042
<b>829631</b>	Flush plates	86101 Betät.pl. VisignforStyle20 5 1K9	86101 FLUSH PLATE VISIGNFORSTYLE205 1K9	86101	VISIGN FOR STYLE20	796389	199.9	0.1373
<b>855744</b>	Flush plates	86101NUBetät.pl. VisignforStyle20 5 DM9	86101NUFLUSH PLATE VISIGNFORSTYLE205 DM9	86101NU	VISIGN FOR STYLE20	794583	265.7	0.1825
<b>855757</b>	Flush plates	86101NUBetät.pl. VisignforStyle20 5 7 9	86101NUFLUSH PLATE VISIGNFORSTYLE205 7 9	86101NU	VISIGN FOR STYLE20	794590	275	0.1889
<b>855774</b>	Flush plates	86111NUBetät.pl. VisignforStyle21 5 DM9	86111NUFLUSH PLATE VISIGNFORSTYLE215 DM9	86111NU	VISIGN FOR STYLE21	794613	267.5	0.1837
<b>855787</b>	Flush plates	86111NUBetät.pl. VisignforStyle21 5 7 9	86111NUFLUSH PLATE VISIGNFORSTYLE215 7 9	86111NU	VISIGN FOR STYLE21	794620	274	0.1882
<b>855791</b>	Flush plates	86111NUBetät.pl. VisignforStyle21 5 1G9	86111NUFLUSH PLATE VISIGNFORSTYLE215 1G9	86111NU	VISIGN FOR STYLE21	794637	261.5	0.1796
<b>856882</b>	Flush plates	86351NUBetät.pl. VisignforPublic12 E CH9	86351NUFLUSH PLATE VISIGNFORPUBLIC1E CH9	86351NU	VISIGN FORPUBLIC12	795597	1223.3	0.8403
<b>856892</b>	Flush plates	86351NUBetät.pl. VisignforPublic12 E 239	86351NUFLUSH PLATE VISIGNFORPUBLIC1E 239	86351NU	VISIGN FORPUBLIC12	795603	1223.3	0.8403
<b>857071</b>	Flush plates	865511 Zubehörset 230V-6,5V 5 A 9	865511 ACCESSORY SET 230V-6,5V 5 A 9	865511	230V - 6,5V	783952	346	0.2377
<b>859921</b>	Flush plates	86352NUAusst.set VisignforPublic12 E 239	86352NU EQUIPMENT SET VISIGNFORPUBLIE 239	86352NU	VISIGN FORPUBLIC12	796433	732.45	0.5031
<b>859942</b>	Flush plates	86352NUAusst.set VisignforPublic12 E CH9	86352NU EQUIPMENT SET VISIGNFORPUBLIE CH9	86352NU	VISIGN FORPUBLIC12	796426	735.5	0.5052

### Prevista Accessories

Material	System	Material short text GER	Material short text ENG	Model no.	Dimensions	Item no.	Weight in g	Factor
864810	Prevista Accessories	857036 Befestigungsset 130-200 S Z 9	857036 FIXING SET 130- 200 S Z 9	857036	130 - 200	776619	432	0.5711
864820	Prevista Accessories	8573 Befestigungsset 200 S Z 9	8573 FIXING SET 200 S Z 9	8573	200	776626	196	0.2591

### Prevista Spare Parts

Material	System	Material short text GER	Material short text ENG	Model no.	Dimensions	Item no.	Weight in g	Factor
809454	Accessories and spare parts	818073 Befestigungssatz M10 7 H 9	818073 FIXING SET M10 7 H 9	818073	M10	678630	322.3	1.0397

## Imprint



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### 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-Richtlinie NA-01/4 Allgemeiner Leitfaden zur Erstellung von Typ III Umweltproduktdeklarationen. (ift-Guideline NA-01/4 - Guidance on preparing Type III Environmental Product Declarations)  
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### Layout

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### Photographs (front page)

Viega GmbH & Co. KG

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