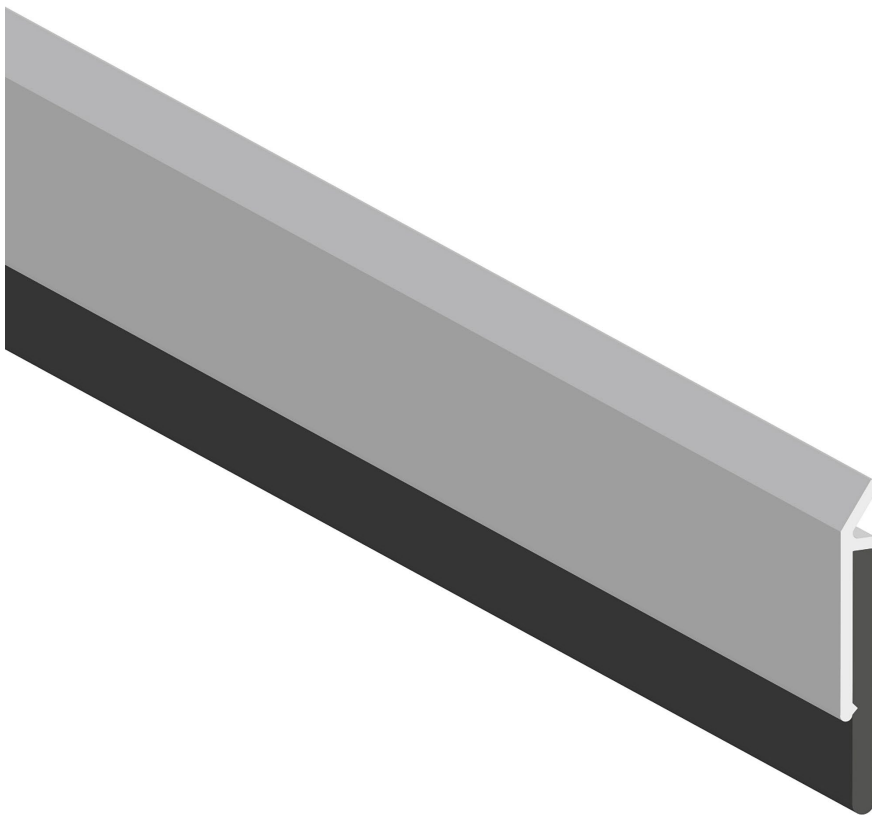


## ENVIRONMENTAL PRODUCT DECLARATION

# ZERO DOOR SWEEPS



Zero Door Sweeps

This EPD was created using a UL-verified EPD generator for Allegion's full product portfolio. For additional product specific EPDs, please contact Allegion at [sustainability@allegion.com](mailto:sustainability@allegion.com).



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Allegion is pioneering safety by protecting people where they live and work – and protecting our environment at the same time. We promote the health and safety of our employees, customers and local community members worldwide through our commitment to conducting business in a safe and environmentally responsible manner.

Additionally, Allegion recognizes the value of the Leadership in Energy and Environmental Design (LEED) rating system to building environmentally safe and sustainable structures. By using Life Cycle Assessment and Environmental Product Declarations, we aim to provide our customers with the information they need to make decisions regarding their own sustainable building concepts and green solutions.

At Allegion, we value the importance of a cleaner world and are committed to being a responsible member of our global communities.



# ENVIRONMENTAL PRODUCT DECLARATION



Allegion plc  
Zero Door Sweeps



According to ISO 14025,  
EN 15804, and ISO21930:2017

PROGRAM OPERATOR	UL Solutions <a href="http://www.spot.ul.com">www.spot.ul.com</a>
GENERAL PROGRAM INSTRUCTIONS AND VERSION NUMBER	UL Solutions Program Operator Rules v.2.7 2022
MANUFACTURER NAME AND ADDRESS	Allegion plc 7221 W 350N, Greenfield, IN 46140
DECLARATION NUMBER	4790767890.160.1
DECLARED PRODUCT & FUNCTIONAL UNIT	Door sweeps of 0.91 m (3 ft) length installed to seal the bottom of a 3' x 7' opening for 75 years
REFERENCE PCR AND VERSION NUMBER	UL PCR Part A - Version 3.2 UL Part B Builders Hardware EPD Requirements
DESCRIPTION OF PRODUCT'S INTENDED APPLICATION AND USE	A Door Sweep is applied to the bottom of a door leaf to form a seal with a threshold or the floor when closed.
PRODUCT RSL DESCRIPTION	25 Years
MARKETS OF APPLIABILITY	Americas
DATE OF ISSUE	March 31 <sup>st</sup> , 26
PERIOD OF VALIDITY	5 Years
EPD TYPE	Product-specific
EPD SCOPE	Cradle to grave
YEAR OF REPORTED MANUFACTURER PRIMARY DATA	2019
LCA SOFTWARE & VERSION NUMBER	Sphera LCA for Experts (formerly GaBi) Version 10.9
LCI DATABASE & VERSION NUMBER	Sphera Managed Life Cycle Content (formerly GaBi) Version 2020.2
LCIA METHODOLOGY & VERSION NUMBER	CML 2001-Jan 2016 and TRACI 2.1
The sub-category PCR review was conducted by:	UL Solutions PCR Review Panel epd@ul.com
This declaration was independently verified in accordance with ISO 14025:2006. The UL Environment "Part A: Calculation Rules for the Life Cycle Assessment and Requirements on the Project Report," v3.2 (Dec 2018), based on ISO 21930:2017, serves as the core PR, with additional considerations from CEN Norm EN 15804 (2013) and the USGBC/UL Environment Part A Enhancement (2017) <input type="checkbox"/> INTERNAL <input checked="" type="checkbox"/> EXTERNAL	Cooper McCollum, UL Solutions
This life cycle assessment was conducted in accordance with ISO 14044 and the reference PCR by:	WAP Sustainability Consulting
This life cycle assessment was independently verified in accordance with ISO 14044 and the reference PCR by:	James Mellentine , Thrive ESG
<b>LIMITATIONS</b> Environmental declarations from different programs (ISO 14025) may not be comparable. Comparison of the environmental performance of products using EPD information shall be based on the product's use and impacts at the building level, and therefore EPDs may not be used for comparability purposes when not considering the building energy use phase as instructed under this PCR.  Full conformance with this PCR allows EPD comparability only when all stages of a life cycle have been considered. However, variations and deviations are possible". Example of variations: Different LCA software and background LCI datasets may lead to differences results for upstream or downstream of the life cycle stages declared.	

# ENVIRONMENTAL PRODUCT DECLARATION



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Allegion plc  
Zero Door Sweeps



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## 1. Product Definition and Information

### 1.1. Description of Company

At Allegion (NYSE: ALLE), we design and manufacture innovative security and access solutions that help keep people safe where they live, learn, work and connect. We're pioneering safety with our strong legacy of brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss®, Von Duprin® and [insert your local brand(s) here]. Our comprehensive portfolio of hardware, software and electronic solutions is sold around the world and spans residential and commercial locks, door closer and exit devices, steel doors and frames, access control and workforce productivity systems.

Allegion™ operates plants across the United States and internationally.

### 1.2. Product Description

A door sweeps are one component of the perimeter seals used to seal gaps around door. Door sweeps are installed at the bottom of a door, usually on the interior or exterior face. Its primary function is to seal the gap between the door and the floor, preventing drafts, dust, insects, and moisture from entering.

This EPD covers screw applied door sweeps with neoprene, EPDM, or nylon brush seals in various anodized finishes including clear (AA), dark bronze (D), gold (G), and black (BK), indicated by a suffix. Specific models in this EPD include 39AA, 328AA, 8192AA, 8197AA, and 8198AA.

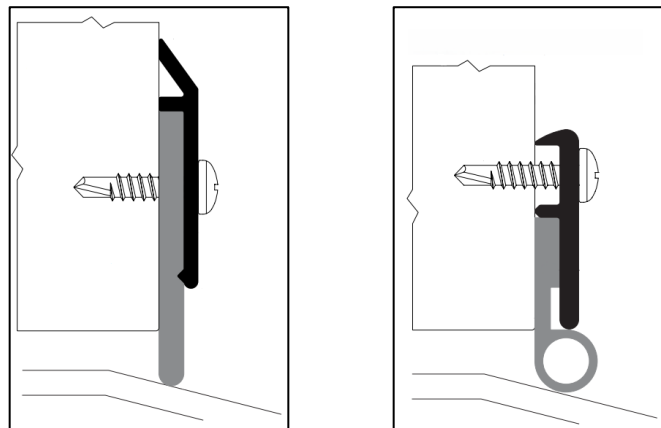


Figure 1: Zero Door Sweeps (Left to Right: 39AA, 328AA)



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Zero Door Sweeps



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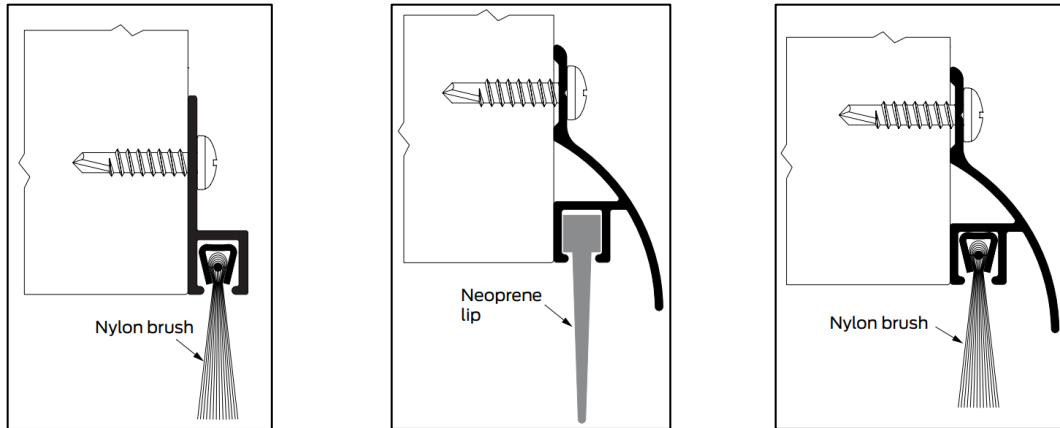


Figure 2: Zero Door Sweeps (Left to Right: 8192AA, 8197AA, 8198AA)

1.3. Technical Requirements

Table 1: Technical Details

PARAMETER	39AA	328AA	8192AA	8197AA	8198AA	UNIT
ANSI/BHMA A156.22	✓	✓	✓	✓	✓	-
ANSI/UL 10C Fire Rated	✓	✓	✓	✓	✓	-
ANSI/UL 10C and ANSI/UL 784 Category H Smoke and Draft Control Gasketing		✓				-

1.4. Application

These products are intended for use in commercial applications such as health care, education, hospitality, and retail. The product can also be used residentially if desired.

1.5. Declaration of Methodological Framework

This EPD is cradle-to-grave, as represented by the flow diagram below. A summary of the life cycle stages can be found in Table 5. The reference service life (RSL) is outlined in Table 8. The cut-off criteria are described in 2.4 Cut-off Criteria, and the allocation procedures are described in 2.8 Allocation. No known flows are deliberately excluded from this EPD. Third party verified ISO 14040/44 secondary LCI data sets contribute more than 67% of total impacts in all impact categories required by the PCR.



# ENVIRONMENTAL PRODUCT DECLARATION

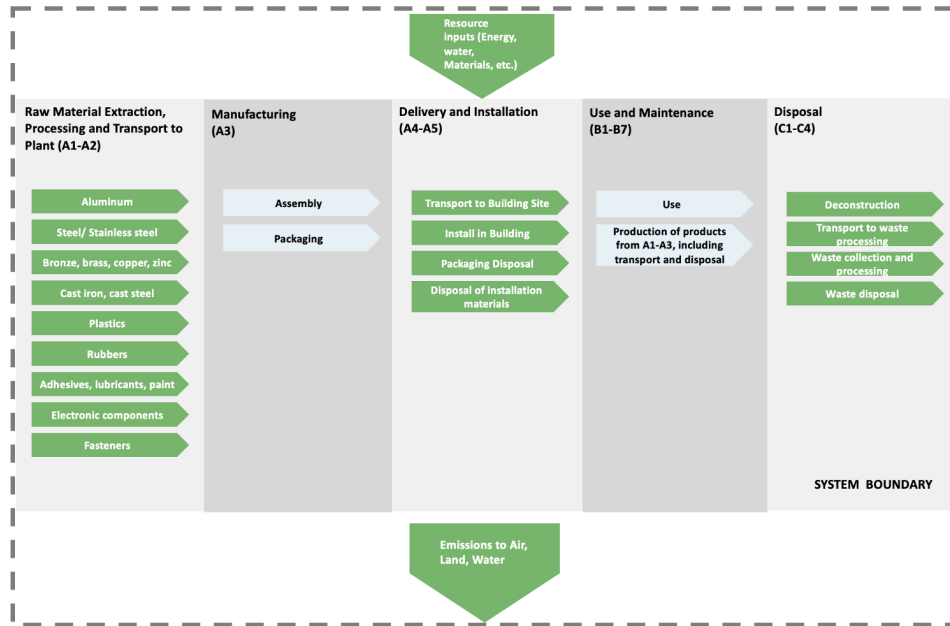


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## 1.6. Material Composition

The materials that make up the products are indicated in Table 2.

**Table 2: Material Composition**

MATERIAL	39AA	328AA	8192AA	8197AA	8198AA
Aluminum	54%	65%	49%	75%	59%
Neoprene	43%	32%	-	-	-
Steel	3%	4%	4%	4%	3%
Nylon 6	-	-	15%	-	12%
Galvanized Steel	-	-	32%	-	26%
EPDM	-	-	-	21%	-
<b>Total</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>

## 1.7. Properties of Declared Product as Shipped

For shipping, all door sweeps are packaged in a plastic bag and then placed in a box with same or similar products, typically ranging from 9 to 11 additional items. Along with the door sweeps, fasteners, an instruction sheet and labels are also included.



# ENVIRONMENTAL PRODUCT DECLARATION



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## 1.8. Manufacturing

Zero International door sweep products are manufactured at Allegion's Greenfield plant, located at 7221 W. 350 North, Greenfield, IN 46140. Allegion receives sub-components from their suppliers in the US. These components are then cut to length, assembled, finished and packaged in the facility in Greenfield. Along with the door sweep, fasteners, an instruction manual and labels are also included in the plastic bags. Product is shipped to customer via LTL or common carrier. Natural resources used in the manufacturing process include electricity, natural gas, and water.

## 1.9. Packaging

Packaging utilized in the shipment of the product per functional unit is described in Table 3.

Table 2: Packaging

MATERIAL	39AA	328AA	8192AA	8197AA	8198AA	UNIT	DISPOSAL PATHWAY
Cardboard	7.56E-02	7.56E-02	7.56E-02	7.56E-02	7.56E-02	kg	Landfilled (20%), Incinerated (5%), Recycled (75%)
Paper	1.55E-02	1.55E-02	1.55E-02	1.55E-02	1.55E-02	kg	Landfilled (20%), Incinerated (5%), Recycled (75%)
LDPE	1.43E-02	1.43E-02	1.43E-02	1.43E-02	1.43E-02	kg	Landfilled (68%), Incinerated (17%), Recycled (15%)

## 1.10. Transportation

It is assumed that all raw materials are distributed by truck and ship, based on global region. Distances were calculated based on the address of the major supplier of each material.

The transport distance to the end customers was calculated based on sales data for the year 2024. The transportation distance for all waste flows is assumed to be 200 km. Both distances are provided in the sub-category PCR in Section 3.12.

## 1.11. Product Installation

Detailed installation instructions are provided online at [Allegion.com](http://Allegion.com). Installation equipment is required though not included in the study as these are multi-use tools and the impacts per declared unit is considered negligible. Packaging waste is generated and disposed of in this stage. Packaging and installation waste disposal have been modeled as per guidelines in section 2.8.5 of PCR Part A. Packaging installation waste are either landfilled, incinerated, or recycled.

Product should be installed by a professional and is subject to commercial building codes. Proper equipment, including protective equipment, should be used. Allegion products must be installed in full compliance with manufacturer's written instructions, which are included with each product.



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Zero Door Sweeps



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## 1.12. Reuse, Recycling, and Energy Recovery

The product may be recycled or reused at the end of life. The LCA that this EPD is created from takes the conservative approach by assuming that all products are disposed of within the system boundary.

## 1.13. Disposal

Disposal pathways in the EPD are modeled in accordance with disposal routes and waste classification referenced in Sections 2.8.5 and 2.8.6 of *Part A: Life Cycle Assessment Calculation Rules and Report Requirements* from UL Environment. This indicates an end-of-life split amongst landfill, recycling, and incineration pathways. For metals disposed in the United States, 85% is recycled and 15% is landfilled.

## 2. Life Cycle Assessment Background Information

### 2.1. Functional Unit

The functional unit according to the PCR is a door sweep of 0.91 m (3 ft) length installed to sufficiently seal the bottom of a 3' x 7' opening in a North American standard building with an Estimated Service Life of 75 years as indicated in Table 4.

**Table 3: Functional Unit Details**

NAME	39AA	328AA	8192AA	8197AA	8198AA	UNIT
Functional Unit	0.91 m (3 ft) of door sweeps for 75 years					
Mass per functional unit, including fasteners	1.17E+00	1.08E+00	1.01E+00	9.91E-01	1.17E+00	kg
Reference Service Life (RSL)	25					years

The fasteners needed for installation are supplied by the manufacturer with the product and therefore are accounted for together with the product.

### 2.2. System Boundary

The type of EPD is cradle-to-grave. All LCA modules are included and are summarized in Table 5.

**Table 4: Summary of Included Life Cycle Stages**

MODULE NAME	DESCRIPTION	ANALYSIS PERIOD	SUMMARY OF INCLUDED ELEMENTS
A1	Product Stage: Raw Material Supply	2019	Raw Material sourcing and processing as defined by secondary data.
A2	Product Stage: Transport	2019	Shipping from supplier to manufacturing site. Fuel use requirements estimated based on product weights and estimated distance.
A3	Product Stage: Manufacturing	2019	Energy, water, and material inputs required for manufacturing products from raw materials. Packaging materials and manufacturing waste are included as well.
A4	Construction Process Stage: Transport	2024	Shipping from manufacturing site to project site. Fuel use requirements estimated based on product weights and mapped distances.



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MODULE NAME	DESCRIPTION	ANALYSIS PERIOD	SUMMARY OF INCLUDED ELEMENTS
A5	Construction Process Stage: Installation	2019	Installation materials, installation waste and packaging material waste.
B1	Use Stage: Use	2019	The usage of this product does not result in direct material impacts or emissions.
B2	Use Stage: Maintenance	2019	The maintenance of the products does not involve any consumption of energy or resources.
B3	Use Stage: Repair	2019	The product does not require repairing once installed.
B4	Use Stage: Replacement	2019	Total materials and energy required to manufacture the replacements needed to meet the functional unit.
B5	Use Stage: Refurbishment	2019	The products do not require refurbishment once installed.
B6	Operational Energy Use	2019	Operational energy consumption for door products are assumed per Part B Steel doors PCR.
B7	Operational Water Use	2019	The use of the products does not impact the operational water use of the building.
C1	EOL: Deconstruction	2019	No inputs required for deconstruction.
C2	EOL: Transport	2019	Shipping from project site to landfill. Distance assumed to be 200 km from installation site to landfill.
C3	EOL: Waste Processing	2019	Waste processing not required. All waste can be processed as is.
C4	EOL: Disposal	2019	The disposal process of the product varies with the material type as per Part A Section 2.8.5. The impacts from landfilling and recycling are modeled based on secondary data.
D	Benefits beyond system	N/A	Module not declared.

## 2.3. Estimates and Assumptions

All estimates and assumptions are within the requirements of ISO 14040/44. The majority of the estimations are within the primary data. The primary data was collected as annual totals including all utility usage and production information. For the LCA, the usage information was divided by the production in pieces to create an energy and water use per declared unit, i.e., one unit of product. Other assumptions are listed below:

- It is assumed that there is a 10% scrap loss rate of the input raw material while manufacturing all of Allegion's products.
- It is assumed stamping is the manufacturing process of the upstream metal part when either the appropriate process wasn't available or was unknown.
- Several Proxies were chosen from materials within the model due to the lack of appropriate secondary data and have been described in the raw materials section.
- The use and selection of secondary datasets from GaBi – The selection of which generic dataset to use to represent an aspect of a supply chain is a significant value choice. Collaboration between LCA practitioners, Allegion associates and GaBi data experts was valuable in determining best-case scenarios in the selection of data. However, no generic data can be a perfect fit. Improved supply chain specific data would improve the accuracy of results, however budgetary and time constraints have to be taken into account.
- The installation tools are used enough times that the impacts per unit of product are negligible.

## 2.4. Cut-off Criteria





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All inputs in which data was available were included. Material inputs greater than 1% (based on total mass of the final product) were included within the scope of analysis. Material inputs less than 1% were included if sufficient data was available to warrant inclusion and/or the material input was thought to have significant environmental impact. Cumulative excluded material inputs and environmental impacts are less than 5% based on total weight of the functional unit.

There is no excluded material or energy input or output, except as noted below:

- Finishes and plastic anchors which form below 1% by mass of the total product weight per declared unit.
- As the tools used during the installation of the product are multi-use tools and can be reused after each installation, the per-functional unit impacts are considered negligible and therefore are not included. However, the electricity used to drill holes for installation has been included.
- Some material inputs may have been excluded within the secondary GaBi datasets used for this project. All GaBi datasets have been critically reviewed and conform to the exclusion requirements of the PCR.

## 2.5. Data Sources

Primary data were collected by facility personnel and from utility bills and was used for all manufacturing processes. Whenever available, supplier data was used for raw materials used in the production process. When primary data did not exist, secondary data for raw material production was utilized from GaBi 10.7, GaBi Database Version 2020.2.

## 2.6. Data Quality

### Geographical Coverage

The geographical scope of the manufacturing portion of the life cycle is Greenfield, Indiana. This EPD uses country specific energy datasets. Overall geographic data quality is considered good.

### Time Coverage

Primary data were provided by Allegion associates and represent calendar year 2019, except for A4 transportation data which were sourced from 2024. Using 2019 and 2024 data meets the PCR requirement that manufacturer specific data be within the last 5 years. Time coverage of this data is considered very good. Data necessary to model cradle-to-gate unit processes was sourced from Sphera LCI datasets. All the datasets used in the model are within 5 years old except seven used for background modeling (six within 10 years and one of 11 years). All datasets rely on at least one 1-year average data. Overall time coverage of the datasets is considered good and meets the requirement of the PCR that all data be updated within a 10-year period. The specific time coverage of secondary datasets can be referenced in the dataset references table in the background LCA report.

### Technological Coverage

Primary data provided by Allegion are specific to the technology that the company uses in manufacturing their product. It is site specific and considered of good quality. It is worth noting that the energy and water used in manufacturing the product includes overhead energy such as lighting, heating and sanitary use of water. Sub-metering was not available to extract process only energy and water use from the total energy use. Sub-metering would improve the technological coverage of data quality. Data necessary to model cradle-to-grave unit processes was sourced from Sphera LCI datasets (GaBi). Technological coverage of the datasets is considered good relative to the actual supply chain of Allegion. While improved life cycle data from suppliers would improve technological coverage, the use of lower quality generic datasets does meet the goal of this EPD.



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## Completeness

The data included is considered complete. The LCA model included all known material and energy flows, with the exception of what is listed in Section 2.4. As pointed out in that section, no known flows above 1% were excluded and the sum of all excluded flows totals less than 5%.

## 2.7. Period under Review

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The period under review is calendar year 2019, except for A4 transportation data which were sourced from 2024.

## 2.8. Allocation

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General principles of allocation were based on ISO 14040/44. Where possible, allocation was avoided. To derive a per-unit value for manufacturing inputs such as electricity, thermal energy, and water, allocation based on total production in pieces was adopted. Discussions with Allegion staff divulged this was a more representative way to allocate the manufacturing inputs based on the manufacturing processes used and the types of products created. There are several other products that are assembled and packaged within the same facility. It is assumed that energy used for these purposes are the same across different products. Regarding secondary datasets, as a default, GaBi datasets use a physical mass basis for allocation.

Of relevance to the defined system boundary is the method in which recycled materials were handled. Throughout the study recycled materials were accounted for via the cut-off method. Under this method, impacts and benefits associated with the previous life of a raw material from recycled stock are excluded from the system boundary. Additionally, impacts and benefits associated with secondary functions of materials at end of life are also excluded (i.e. production into a third life or energy generation from the incineration plant). The study does include the impacts associated with reprocessing and preparation of recycled materials that are part of the bill of materials of the products under study.



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## 3. Life Cycle Assessment Scenarios<sup>1</sup>

**Table 5: Transport to the building site (A4)**

NAME	39AA	328AA	8192AA	8197AA	8198AA	UNIT
Fuel type	Diesel					-
Liters of fuel	38.4					l/100km
Vehicle type	Truck – Trailer, basic enclosed / 50,000 lb. payload					-
Transport distance	1.37E+03	2.11E+03	1.33E+03	1.02E+03	1.07E+03	km
Capacity utilization	65					%
Weight of products transported	3.91E-01	3.60E-01	3.36E-01	3.30E-01	3.91E-01	kg
Volume of products transported	113.56					m <sup>3</sup>
Capacity utilization volume factor	1					-

**Table 6: Installation into the building (A5)**

NAME	39AA	328AA	8192AA	8197AA	8198AA	UNIT
Fasteners	The fasteners for installation are accounted for in A1-A3.					kg
Waste material at the construction site before waste processing, generated by production installation	1.05E-01	1.05E-01	1.05E-01	1.05E-01	1.05E-01	kg
Plastic Recycling (15%)	2.14E-03	2.14E-03	2.14E-03	2.14E-03	2.14E-03	kg
Plastic Landfilling (68%)	9.70E-03	9.70E-03	9.70E-03	9.70E-03	9.70E-03	kg
Plastic Incineration (17%)	2.43E-03	2.43E-03	2.43E-03	2.43E-03	2.43E-03	kg
Total Plastic Packaging Waste	1.43E-02	1.43E-02	1.43E-02	1.43E-02	1.43E-02	kg
Pulp Recycling (75%)	6.83E-02	6.83E-02	6.83E-02	6.83E-02	6.83E-02	kg
Pulp Landfilling (20%)	1.82E-02	1.82E-02	1.82E-02	1.82E-02	1.82E-02	kg
Pulp Incineration (5%)	4.55E-03	4.55E-03	4.55E-03	4.55E-03	4.55E-03	kg
Total Pulp Packaging Waste	9.11E-02	9.11E-02	9.11E-02	9.11E-02	9.11E-02	kg
Biogenic carbon contained in packaging	1.48E-01	1.48E-01	1.48E-01	1.48E-01	1.48E-01	kg CO <sub>2</sub>
Direct Emission to ambient air, soil, and water	0	0	0	0	0	kg
VOC emission	N/A	N/A	N/A	N/A	N/A	µg/m <sup>3</sup>

<sup>1</sup> The tables for B1, B2, B3, and, B5 are not included as these stages do not involve any flow input or output.



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**Table 7: Reference Service Life**

NAME	39AA	328AA	8192AA	8197AA	8198AA	UNIT
RSL	25 years					years
Design application parameters	Installation per recommendation by manufacturer					-
An assumed quality of work	Accepted industry standard					-
Indoor environment	Normal building operating conditions					-
Use conditions	Normal use conditions					-
Maintenance	None required					-

**Table 8: Replacement (B4)**

NAME	39AA	328AA	8192AA	8197AA	8198AA	UNIT
Reference Service Life	25					Years
Replacement cycles ((ESL/RSL)-1)	2					#
Replacement of worn parts	N/A					kg
Further assumptions for scenario development	N/A					-

**Table 9: End of life (C1-C4)**

NAME		39AA	328AA	8192AA	8197AA	8198AA	UNIT
Assumptions for scenario development	As per PCR Par B, the deconstruction of the hardware is manual. The deconstructed product is collected with mixed construction waste. As required by the PCR Par A, the waste classification is based on the RCRA for North American region, and the non-metal waste is 100% landfilled, while the metal waste is 85% recycled and 15% landfilled.						
Collection process	Collected with mixed construction waste	2.86E-01	2.55E-01	2.30E-01	2.25E-01	2.86E-01	kg
Recovery	Non-Metal Landfilling (100%)	1.23E-01	8.05E-02	3.36E-02	4.69E-02	3.36E-02	kg
	Metal Waste Recycling (85%)	1.38E-01	1.48E-01	1.67E-01	1.51E-01	2.15E-01	kg
	Metal Waste Landfilling (15%)	2.44E-02	2.61E-02	2.95E-02	2.67E-02	3.79E-02	kg



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## 4. Life Cycle Assessment Results

**Table 10: Description of the system boundary modules**

	PRODUCT STAGE			CONSTRUCTION PROCESS STAGE		USE STAGE							END OF LIFE STAGE				BENEFITS AND LOADS BEYOND THE SYSTEM BOUNDARY	
	A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D	
	Raw material supply	Transport	Manufacturing	Transport from gate to site	Assembly/Install	Use	Maintenance	Repair	Replacement	Refurbishment	Building Operational Energy Use During Product Use	Building Operational Water Use During Product Use	Deconstruction	Transport	Waste processing	Disposal	Reuse, Recovery, Recycling Potential	
Cradle to Grave	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	MND

X = Included  
MND = Module not declared



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## 4.1. Life Cycle Assessment Results – 39AA

Impact Category	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
<b>CML Impacts (Europe, Rest of World)</b>															
GWP [kg CO2 eq]	6.41E+00	7.18E-02	2.83E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-03	0.00E+00	6.06E-03	MND
ODP [kg CFC 11 eq]	1.51E-10	9.23E-18	4.82E-18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.63E-19	0.00E+00	2.07E-17	MND
AP [kg SO2 eq]	1.51E-02	1.03E-04	2.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.93E-06	0.00E+00	2.56E-05	MND
EP [kg Phosphate eq]	1.40E-03	2.78E-05	1.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-06	0.00E+00	3.42E-05	MND
POCP [kg Ethene eq]	9.94E-04	-2.43E-05	9.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-2.61E-06	0.00E+00	3.26E-05	MND
ADP-elements [kg Sb eq]	2.62E-06	1.23E-08	5.52E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.15E-10	0.00E+00	1.29E-09	MND
ADP-fossil fuel [MJ]	5.81E+01	9.24E-01	3.31E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.63E-02	0.00E+00	7.53E-02	MND
<b>TRACI Impacts (North America)</b>															
AP [kg SO2 eq]	1.56E-02	1.36E-04	6.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-05	0.00E+00	8.98E-05	MND
EP [kg N eq]	9.42E-04	1.99E-05	1.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-06	0.00E+00	3.35E-05	MND
GWP [kg CO2 eq]	6.41E+00	7.18E-02	2.83E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-03	0.00E+00	6.06E-03	MND
ODP [kg CFC 11 eq]	1.63E-10	9.23E-18	4.82E-18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.63E-19	0.00E+00	2.07E-17	MND
Resources [MJ]	7.59E+00	1.36E-01	5.37E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.83E-03	0.00E+00	1.25E-02	MND
POCP [kg O3 eq]	2.05E-01	2.98E-03	3.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-04	0.00E+00	7.16E-04	MND
<b>Carbon Emissions and Uptake</b>															
BCRP [kg CO2]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
BCEP [kg CO2]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
BCRK [kg CO2]	3.45E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
BCEK [kg CO2]	0.00E+00	0.00E+00	7.44E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
BCEW [kg CO2]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
CCE [kg CO2]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
CCR [kg CO2]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
CWNR [kg CO2]	4.65E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND

# ENVIRONMENTAL PRODUCT DECLARATION



Allegion plc  
Zero Door Sweeps



According to ISO 14025,  
EN 15804 and ISO 21930:2017

Impact Category	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
<b>Resource Use Indicators</b>															
<b>RPR<sub>e</sub> [MJ]</b>	1.32E+01	4.32E-02	2.57E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-03	0.00E+00	8.00E-03	MND
<b>RPR<sub>m</sub> [MJ]</b>	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
<b>RPR<sub>r</sub> [MJ]</b>	1.32E+01	4.32E-02	2.57E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-03	0.00E+00	8.00E-03	MND
<b>NRPR<sub>e</sub> [MJ]</b>	9.25E+01	1.02E+00	4.24E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.13E-02	0.00E+00	9.89E-02	MND
<b>NRPR<sub>m</sub> [MJ]</b>	4.03E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
<b>NRPR<sub>r</sub> [MJ]</b>	9.65E+01	1.02E+00	4.24E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.13E-02	0.00E+00	9.89E-02	MND
<b>SM [kg]</b>	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
<b>RSF [MJ]</b>	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
<b>NRSF [MJ]</b>	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
<b>RE [MJ]</b>	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
<b>FW [m3]</b>	6.46E-02	1.92E-04	3.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.64E-06	0.00E+00	1.40E-05	MND
<b>Output Flows and Waste Categories</b>															
<b>HWD [kg]</b>	1.57E-04	1.75E-08	4.39E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.78E-10	0.00E+00	6.61E-10	MND
<b>NHWD [kg]</b>	4.32E-01	7.33E-05	2.46E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-06	0.00E+00	1.47E-01	MND
<b>HLRW [kg]</b>	6.69E-06	2.78E-09	3.92E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-10	0.00E+00	9.76E-10	MND
<b>ILLRW [kg]</b>	5.60E-03	2.30E-06	3.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-07	0.00E+00	8.36E-07	MND
<b>CRU [kg]</b>	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
<b>MR [kg]</b>	1.57E-01	0.00E+00	7.06E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-01	0.00E+00	MND
<b>MER [kg]</b>	1.89E-01	0.00E+00	6.99E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
<b>EEE [MJ]</b>	1.00E+00	0.00E+00	2.76E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
<b>EET [MJ]</b>	4.03E-01	0.00E+00	9.86E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
<b>EE [MJ]</b>	1.57E-04	1.75E-08	4.39E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.78E-10	0.00E+00	6.61E-10	MND

# ENVIRONMENTAL PRODUCT DECLARATION



Allegion plc  
Zero Door Sweeps



According to ISO 14025,  
EN 15804 and ISO 21930:2017

## 4.2. Life Cycle Assessment Results – 328AA

Impact Category	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
<b>CML Impacts (Europe, Rest of World)</b>															
GWP [kg CO2 eq]	6.26E+00	1.02E-01	2.83E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-03	0.00E+00	4.36E-03	MND
ODP [kg CFC 11 eq]	1.62E-10	1.31E-17	4.82E-18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.12E-19	0.00E+00	1.49E-17	MND
AP [kg SO2 eq]	1.54E-02	1.47E-04	2.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.06E-06	0.00E+00	1.85E-05	MND
EP [kg Phosphate eq]	1.37E-03	3.95E-05	1.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-06	0.00E+00	2.26E-05	MND
POCP [kg Ethene eq]	1.00E-03	-3.44E-05	9.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-2.32E-06	0.00E+00	2.12E-05	MND
ADP-elements [kg Sb eq]	2.43E-06	1.74E-08	5.52E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.48E-10	0.00E+00	9.30E-10	MND
ADP-fossil fuel [MJ]	5.48E+01	1.31E+00	3.31E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.12E-02	0.00E+00	5.43E-02	MND
<b>TRACI Impacts (North America)</b>															
AP [kg SO2 eq]	1.57E-02	1.92E-04	6.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.50E-06	0.00E+00	6.08E-05	MND
EP [kg N eq]	9.09E-04	2.82E-05	1.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-06	0.00E+00	2.21E-05	MND
GWP [kg CO2 eq]	6.26E+00	1.02E-01	2.83E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-03	0.00E+00	4.36E-03	MND
ODP [kg CFC 11 eq]	1.74E-10	1.31E-17	4.82E-18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.12E-19	0.00E+00	1.49E-17	MND
Resources [MJ]	7.15E+00	1.93E-01	5.37E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.08E-03	0.00E+00	9.04E-03	MND
POCP [kg O3 eq]	2.03E-01	4.23E-03	3.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-04	0.00E+00	5.00E-04	MND
<b>Carbon Emissions and Uptake</b>															
BCRP [kg CO2]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
BCEP [kg CO2]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
BCRK [kg CO2]	3.45E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
BCEK [kg CO2]	0.00E+00	0.00E+00	7.44E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
BCEW [kg CO2]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
CCE [kg CO2]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
CCR [kg CO2]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
CWNR [kg CO2]	4.65E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND

# ENVIRONMENTAL PRODUCT DECLARATION



Allegion plc  
Zero Door Sweeps



According to ISO 14025,  
EN 15804 and ISO 21930:2017

Impact Category	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
<b>Resource Use Indicators</b>															
<b>RPR<sub>s</sub> [MJ]</b>	1.28E+01	6.13E-02	2.57E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-03	0.00E+00	5.76E-03	MND
<b>RPR<sub>m</sub> [MJ]</b>	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
<b>RPR<sub>r</sub> [MJ]</b>	1.28E+01	6.13E-02	2.57E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-03	0.00E+00	5.76E-03	MND
<b>NRPR<sub>s</sub> [MJ]</b>	9.00E+01	1.45E+00	4.24E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-02	0.00E+00	7.12E-02	MND
<b>NRPR<sub>m</sub> [MJ]</b>	2.62E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
<b>NRPR<sub>r</sub> [MJ]</b>	9.26E+01	1.45E+00	4.24E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-02	0.00E+00	7.12E-02	MND
<b>SM [kg]</b>	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
<b>RSF [MJ]</b>	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
<b>NRSF [MJ]</b>	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
<b>RE [MJ]</b>	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
<b>FW [m3]</b>	6.50E-02	2.73E-04	3.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.58E-06	0.00E+00	1.01E-05	MND
<b>Output Flows and Waste Categories</b>															
<b>HWD [kg]</b>	1.66E-04	2.48E-08	4.39E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.82E-10	0.00E+00	4.76E-10	MND
<b>NHWD [kg]</b>	4.53E-01	1.04E-04	2.46E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-06	0.00E+00	1.06E-01	MND
<b>HLRW [kg]</b>	6.52E-06	3.95E-09	3.92E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-10	0.00E+00	7.03E-10	MND
<b>ILLRW [kg]</b>	5.45E-03	3.27E-06	3.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-07	0.00E+00	6.03E-07	MND
<b>CRU [kg]</b>	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
<b>MR [kg]</b>	1.57E-01	0.00E+00	7.06E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-01	0.00E+00	MND
<b>MER [kg]</b>	1.89E-01	0.00E+00	6.99E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
<b>EEE [MJ]</b>	1.00E+00	0.00E+00	2.76E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
<b>EET [MJ]</b>	4.03E-01	0.00E+00	9.86E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
<b>EE [MJ]</b>	1.66E-04	2.48E-08	4.39E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.82E-10	0.00E+00	4.76E-10	MND

# ENVIRONMENTAL PRODUCT DECLARATION



Allegion plc  
Zero Door Sweeps



According to ISO 14025,  
EN 15804 and ISO 21930:2017

## 4.3. Life Cycle Assessment Results – 8192AA

Impact Category	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
<b>CML Impacts (Europe, Rest of World)</b>															
GWP [kg CO2 eq]	6.07E+00	6.01E-02	2.83E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-03	0.00E+00	2.59E-03	MND
ODP [kg CFC 11 eq]	1.15E-10	7.72E-18	4.82E-18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-19	0.00E+00	8.87E-18	MND
AP [kg SO2 eq]	1.31E-02	8.64E-05	2.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.40E-06	0.00E+00	1.10E-05	MND
EP [kg Phosphate eq]	1.27E-03	2.33E-05	1.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-06	0.00E+00	1.02E-05	MND
POCP [kg Ethene eq]	9.06E-04	-2.03E-05	9.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-2.10E-06	0.00E+00	8.94E-06	MND
ADP-elements [kg Sb eq]	5.74E-06	1.03E-08	5.52E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.96E-10	0.00E+00	5.52E-10	MND
ADP-fossil fuel [MJ]	4.98E+01	7.73E-01	3.31E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-02	0.00E+00	3.22E-02	MND
<b>TRACI Impacts (North America)</b>															
AP [kg SO2 eq]	1.35E-02	1.13E-04	6.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.61E-06	0.00E+00	2.98E-05	MND
EP [kg N eq]	8.58E-04	1.66E-05	1.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-06	0.00E+00	9.76E-06	MND
GWP [kg CO2 eq]	6.07E+00	6.01E-02	2.83E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-03	0.00E+00	2.59E-03	MND
ODP [kg CFC 11 eq]	1.23E-10	7.72E-18	4.82E-18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-19	0.00E+00	8.87E-18	MND
Resources [MJ]	6.84E+00	1.14E-01	5.37E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.51E-03	0.00E+00	5.36E-03	MND
POCP [kg O3 eq]	1.86E-01	2.49E-03	3.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-04	0.00E+00	2.72E-04	MND
<b>Carbon Emissions and Uptake</b>															
BCRP [kg CO2]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
BCEP [kg CO2]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
BCRK [kg CO2]	3.45E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
BCEK [kg CO2]	0.00E+00	0.00E+00	7.44E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
BCEW [kg CO2]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
CCE [kg CO2]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
CCR [kg CO2]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
CWNR [kg CO2]	4.65E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND

# ENVIRONMENTAL PRODUCT DECLARATION



Allegion plc  
Zero Door Sweeps



According to ISO 14025,  
EN 15804 and ISO 21930:2017

Impact Category	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
<b>Resource Use Indicators</b>															
<b>RPR<sub>s</sub> [MJ]</b>	9.86E+00	3.61E-02	2.57E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-03	0.00E+00	3.42E-03	MND
<b>RPR<sub>m</sub> [MJ]</b>	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
<b>RPR<sub>r</sub> [MJ]</b>	9.86E+00	3.61E-02	2.57E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-03	0.00E+00	3.42E-03	MND
<b>NRPR<sub>s</sub> [MJ]</b>	8.73E+01	8.56E-01	4.24E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-02	0.00E+00	4.23E-02	MND
<b>NRPR<sub>m</sub> [MJ]</b>	1.17E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
<b>NRPR<sub>r</sub> [MJ]</b>	8.85E+01	8.56E-01	4.24E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-02	0.00E+00	4.23E-02	MND
<b>SM [kg]</b>	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
<b>RSF [MJ]</b>	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
<b>NRSF [MJ]</b>	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
<b>RE [MJ]</b>	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
<b>FW [m3]</b>	5.59E-02	1.61E-04	3.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.77E-06	0.00E+00	6.00E-06	MND
<b>Output Flows and Waste Categories</b>															
<b>HWD [kg]</b>	1.25E-04	1.46E-08	4.39E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.08E-10	0.00E+00	2.83E-10	MND
<b>NHWD [kg]</b>	3.49E-01	6.13E-05	2.46E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-06	0.00E+00	6.30E-02	MND
<b>HLRW [kg]</b>	6.20E-06	2.33E-09	3.92E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-10	0.00E+00	4.17E-10	MND
<b>ILLRW [kg]</b>	5.18E-03	1.93E-06	3.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.31E-08	0.00E+00	3.58E-07	MND
<b>CRU [kg]</b>	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
<b>MR [kg]</b>	1.57E-01	0.00E+00	7.06E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-01	0.00E+00	MND
<b>MER [kg]</b>	1.89E-01	0.00E+00	6.99E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
<b>EEE [MJ]</b>	1.00E+00	0.00E+00	2.76E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
<b>EET [MJ]</b>	4.03E-01	0.00E+00	9.86E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
<b>EE [MJ]</b>	1.25E-04	1.46E-08	4.39E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.08E-10	0.00E+00	2.83E-10	MND

# ENVIRONMENTAL PRODUCT DECLARATION



Allegion plc  
Zero Door Sweeps



According to ISO 14025,  
EN 15804 and ISO 21930:2017

## 4.4. Life Cycle Assessment Results – 8197AA

Impact Category	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
<b>CML Impacts (Europe, Rest of World)</b>															
GWP [kg CO2 eq]	6.05E+00	4.51E-02	2.83E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-03	0.00E+00	3.01E-03	MND
ODP [kg CFC 11 eq]	1.66E-10	5.81E-18	4.82E-18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-19	0.00E+00	1.03E-17	MND
AP [kg SO2 eq]	1.52E-02	6.49E-05	2.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.24E-06	0.00E+00	1.27E-05	MND
EP [kg Phosphate eq]	1.30E-03	1.75E-05	1.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-06	0.00E+00	1.36E-05	MND
POCP [kg Ethene eq]	9.71E-04	-1.53E-05	9.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-2.05E-06	0.00E+00	1.24E-05	MND
ADP-elements [kg Sb eq]	2.02E-06	7.71E-09	5.52E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.84E-10	0.00E+00	6.42E-10	MND
ADP-fossil fuel [MJ]	5.03E+01	5.81E-01	3.31E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-02	0.00E+00	3.75E-02	MND
<b>TRACI Impacts (North America)</b>															
AP [kg SO2 eq]	1.54E-02	8.52E-05	6.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.40E-06	0.00E+00	3.81E-05	MND
EP [kg N eq]	8.41E-04	1.25E-05	1.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.80E-07	0.00E+00	1.32E-05	MND
GWP [kg CO2 eq]	6.05E+00	4.51E-02	2.83E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-03	0.00E+00	3.01E-03	MND
ODP [kg CFC 11 eq]	1.78E-10	5.81E-18	4.82E-18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-19	0.00E+00	1.03E-17	MND
Resources [MJ]	6.65E+00	8.56E-02	5.37E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.37E-03	0.00E+00	6.24E-03	MND
POCP [kg O3 eq]	1.94E-01	1.87E-03	3.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-04	0.00E+00	3.30E-04	MND
<b>Carbon Emissions and Uptake</b>															
BCRP [kg CO2]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
BCEP [kg CO2]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
BCRK [kg CO2]	3.45E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
BCEK [kg CO2]	0.00E+00	0.00E+00	7.44E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
BCEW [kg CO2]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
CCE [kg CO2]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
CCR [kg CO2]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
CWNR [kg CO2]	4.65E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND

# ENVIRONMENTAL PRODUCT DECLARATION



Allegion plc  
Zero Door Sweeps



According to ISO 14025,  
EN 15804 and ISO 21930:2017

Impact Category	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
<b>Resource Use Indicators</b>															
<b>RPR<sub>s</sub> [MJ]</b>	1.15E+01	2.71E-02	2.57E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-03	0.00E+00	3.98E-03	MND
<b>RPR<sub>m</sub> [MJ]</b>	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
<b>RPR<sub>r</sub> [MJ]</b>	1.15E+01	2.71E-02	2.57E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-03	0.00E+00	3.98E-03	MND
<b>NRPR<sub>s</sub> [MJ]</b>	8.69E+01	6.43E-01	4.24E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.04E-02	0.00E+00	4.92E-02	MND
<b>NRPR<sub>m</sub> [MJ]</b>	5.14E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
<b>NRPR<sub>r</sub> [MJ]</b>	8.70E+01	6.43E-01	4.24E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.04E-02	0.00E+00	4.92E-02	MND
<b>SM [kg]</b>	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
<b>RSF [MJ]</b>	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
<b>NRSF [MJ]</b>	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
<b>RE [MJ]</b>	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
<b>FW [m3]</b>	6.38E-02	1.21E-04	3.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.59E-06	0.00E+00	6.98E-06	MND
<b>Output Flows and Waste Categories</b>															
<b>HWD [kg]</b>	1.69E-04	1.10E-08	4.39E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.91E-10	0.00E+00	3.29E-10	MND
<b>NHWD [kg]</b>	4.59E-01	4.61E-05	2.46E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-06	0.00E+00	7.33E-02	MND
<b>HLRW [kg]</b>	6.18E-06	1.75E-09	3.92E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-10	0.00E+00	4.85E-10	MND
<b>ILLRW [kg]</b>	5.16E-03	1.45E-06	3.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.09E-08	0.00E+00	4.16E-07	MND
<b>CRU [kg]</b>	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
<b>MR [kg]</b>	1.57E-01	0.00E+00	7.06E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-01	0.00E+00	MND
<b>MER [kg]</b>	1.89E-01	0.00E+00	6.99E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
<b>EEE [MJ]</b>	1.00E+00	0.00E+00	2.76E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
<b>EET [MJ]</b>	4.03E-01	0.00E+00	9.86E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
<b>EE [MJ]</b>	1.69E-04	1.10E-08	4.39E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.91E-10	0.00E+00	3.29E-10	MND

# ENVIRONMENTAL PRODUCT DECLARATION



Allegion plc  
Zero Door Sweeps



According to ISO 14025,  
EN 15804 and ISO 21930:2017

## 4.5. Life Cycle Assessment Results – 8198AA

Impact Category	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
<b>CML Impacts (Europe, Rest of World)</b>															
GWP [kg CO2 eq]	6.52E+00	5.65E-02	2.83E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-03	0.00E+00	2.93E-03	MND
ODP [kg CFC 11 eq]	1.66E-10	7.26E-18	4.82E-18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.64E-19	0.00E+00	1.00E-17	MND
AP [kg SO2 eq]	1.60E-02	8.12E-05	2.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.94E-06	0.00E+00	1.24E-05	MND
EP [kg Phosphate eq]	1.42E-03	2.19E-05	1.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-06	0.00E+00	1.06E-05	MND
POCP [kg Ethene eq]	1.06E-03	-1.91E-05	9.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-2.61E-06	0.00E+00	8.96E-06	MND
ADP-elements [kg Sb eq]	5.94E-06	9.65E-09	5.52E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.16E-10	0.00E+00	6.25E-10	MND
ADP-fossil fuel [MJ]	5.42E+01	7.26E-01	3.31E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.64E-02	0.00E+00	3.65E-02	MND
<b>TRACI Impacts (North America)</b>															
AP [kg SO2 eq]	1.64E-02	1.07E-04	6.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-05	0.00E+00	3.17E-05	MND
EP [kg N eq]	9.22E-04	1.56E-05	1.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-06	0.00E+00	9.99E-06	MND
GWP [kg CO2 eq]	6.52E+00	5.65E-02	2.83E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-03	0.00E+00	2.93E-03	MND
ODP [kg CFC 11 eq]	1.78E-10	7.26E-18	4.82E-18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.64E-19	0.00E+00	1.00E-17	MND
Resources [MJ]	7.26E+00	1.07E-01	5.37E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.84E-03	0.00E+00	6.07E-03	MND
POCP [kg O3 eq]	2.14E-01	2.34E-03	3.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-04	0.00E+00	3.00E-04	MND
<b>Carbon Emissions and Uptake</b>															
BCRP [kg CO2]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
BCEP [kg CO2]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
BCRK [kg CO2]	3.45E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
BCEK [kg CO2]	0.00E+00	0.00E+00	7.44E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
BCEW [kg CO2]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
CCE [kg CO2]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
CCR [kg CO2]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
CWNR [kg CO2]	4.65E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND

# ENVIRONMENTAL PRODUCT DECLARATION



Allegion plc  
Zero Door Sweeps



According to ISO 14025,  
EN 15804 and ISO 21930:2017

Impact Category	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
<b>Resource Use Indicators</b>															
<b>RPR<sub>s</sub> [MJ]</b>	1.18E+01	3.40E-02	2.57E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-03	0.00E+00	3.87E-03	MND
<b>RPR<sub>M</sub> [MJ]</b>	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
<b>RPR<sub>r</sub> [MJ]</b>	1.18E+01	3.40E-02	2.57E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-03	0.00E+00	3.87E-03	MND
<b>NRPR<sub>s</sub> [MJ]</b>	9.24E+01	8.05E-01	4.24E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.14E-02	0.00E+00	4.79E-02	MND
<b>NRPR<sub>M</sub> [MJ]</b>	1.17E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
<b>NRPR<sub>r</sub> [MJ]</b>	9.35E+01	8.05E-01	4.24E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.14E-02	0.00E+00	4.79E-02	MND
<b>SM [kg]</b>	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
<b>RSF [MJ]</b>	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
<b>NRSF [MJ]</b>	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
<b>RE [MJ]</b>	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
<b>FW [m3]</b>	6.42E-02	1.51E-04	3.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.65E-06	0.00E+00	6.80E-06	MND
<b>Output Flows and Waste Categories</b>															
<b>HWD [kg]</b>	1.69E-04	1.38E-08	4.39E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.79E-10	0.00E+00	3.20E-10	MND
<b>NHWD [kg]</b>	4.60E-01	5.77E-05	2.46E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-06	0.00E+00	7.14E-02	MND
<b>HLRW [kg]</b>	6.32E-06	2.19E-09	3.92E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-10	0.00E+00	4.72E-10	MND
<b>ILLRW [kg]</b>	5.28E-03	1.81E-06	3.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-07	0.00E+00	4.05E-07	MND
<b>CRU [kg]</b>	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
<b>MR [kg]</b>	1.57E-01	0.00E+00	7.06E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-01	0.00E+00	MND
<b>MER [kg]</b>	1.89E-01	0.00E+00	6.99E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
<b>EEE [MJ]</b>	1.00E+00	0.00E+00	2.76E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
<b>EET [MJ]</b>	4.03E-01	0.00E+00	9.86E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND
<b>EE [MJ]</b>	1.69E-04	1.38E-08	4.39E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.79E-10	0.00E+00	3.20E-10	MND



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According to ISO 14025,  
EN 15804 and ISO 21930:2017

## 5. LCA Interpretation

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Overall, the vast majority of impacts are found in B4, specifically due to the replacement requirements over the service life of a building. This follows the fact that with an RSL of 25 years, there are 2 replacements that need to occur during the 75 years of building operation. If the impacts from B4 are set aside to observe impacts from other phases, the Production Stage (A1-A3) emerges as a major contributor. This includes raw material extraction, raw material transportation, and product manufacturing.

## 6. Additional Environmental Information

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### 6.1. Environment and Health During Manufacturing

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Allegion meets all federal and state standards related to the Environment and Health during manufacturing. Beyond what is regulated, there are no additional environment and health considerations during the production of goods.

### 6.2. Environment and Health During Installation

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The installation instruction that can be found on Allegion's website should be referred to and followed to have proper and safe installation.

### 6.3. Environment and Health During Use

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There are no environmental or health considerations during the use of the product.

### 6.4. Extraordinary Effects

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#### Fire

Some Zero International products are listed for use on smoke or fire rated door applications. If the product is destroyed, it should be disposed of using standard procedures and replaced promptly.

#### Mechanical Destruction

If the product is mechanically destroyed, it should be disposed of using standard procedures and replaced promptly.





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According to ISO 14025,  
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## 7. Supporting Documentation

The full text of the acronyms found in Section 4 are found in Table 12.

**Table 11: Acronym Key**

ACRONYM	TEXT	ACRONYM	TEXT
LCA Indicators			
ADP-elements	Abiotic depletion potential for non-fossil resources	GWP	Global warming potential
ADP-fossil	Abiotic depletion potential for fossil resources	OPD	Depletion of stratospheric ozone layer
AP	Acidification potential of soil and water	POCP	Photochemical ozone creation potential
EP	Eutrophication potential	Resources	Depletion of non-renewable fossil fuels
LCI Indicators			
PERE	Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PENRT	Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials)
PERM	Use of renewable primary energy resources used as raw materials	SM	Use of secondary materials
PERT	Total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials)	RSF	Use of renewable secondary fuels
PENRE	Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	NRSF	Use of non-renewable secondary fuels
PENRM	Use of non-renewable primary energy resources used as raw materials	FW	Net use of fresh water
HWD	Disposed-of-hazardous waste	MFR	Materials for recycling
NHWD	Disposed-of non-hazardous waste	MET	Materials for energy recovery
RWD	Disposed-of Radioactive waste	EEE	Exported electrical energy
CRU	Components for reuse	EET	Exported thermal energy
		EE	Exported energy





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According to ISO 14025,  
EN 15804 and ISO 21930:2017

## 8. References

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4. ISO 14044: 2006 Environmental Management – Life cycle assessment – Requirements and Guidelines.
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