

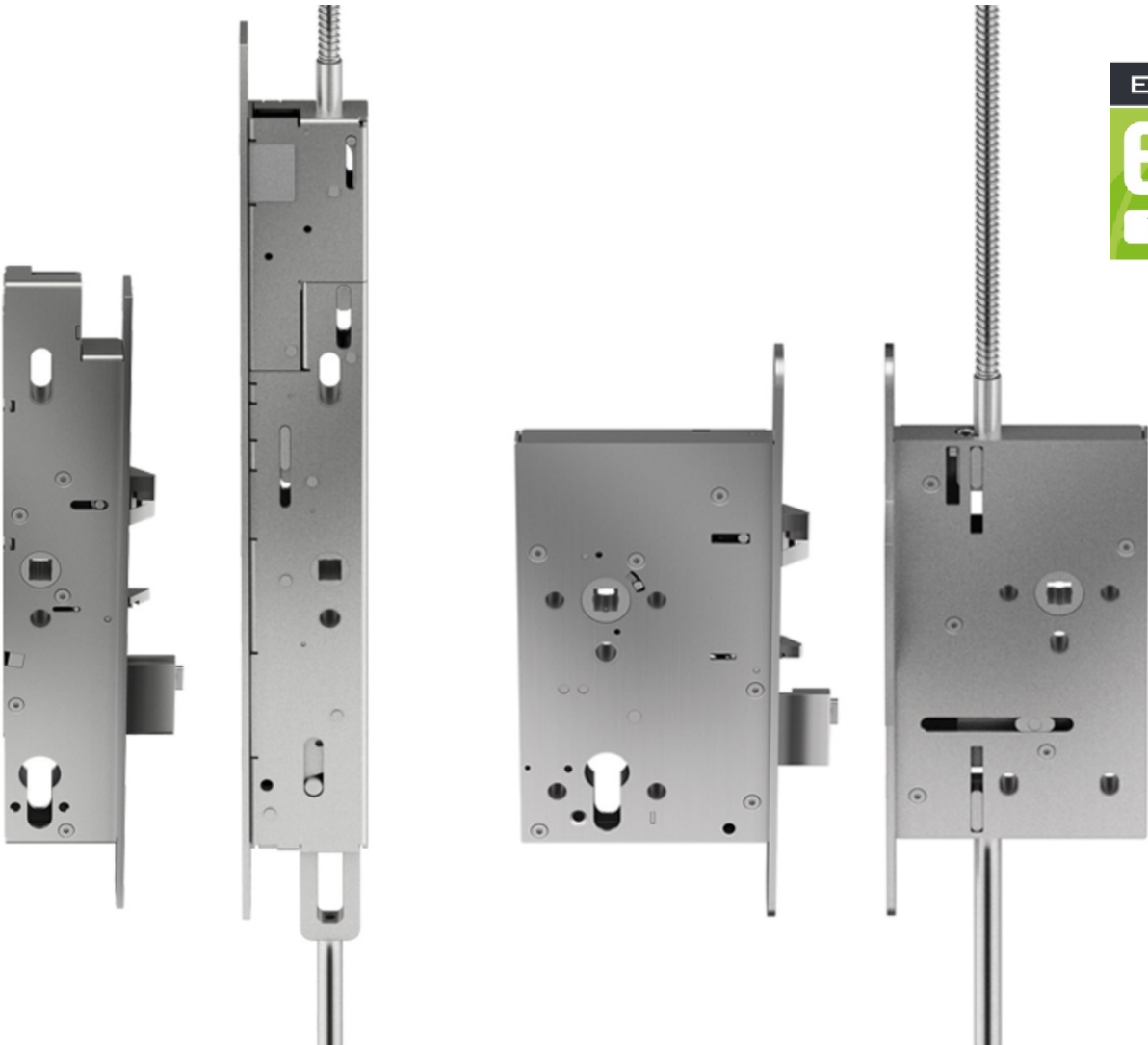
# ENVIRONMENTAL PRODUCT DECLARATION

as per ISO 14025 and EN 15804+A2

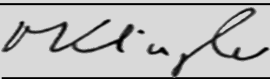
|                          |                                      |
|--------------------------|--------------------------------------|
| Owner of the Declaration | dormakaba International Holding GmbH |
| Publisher                | Institut Bauen und Umwelt e.V. (IBU) |
| Programme holder         | Institut Bauen und Umwelt e.V. (IBU) |
| Declaration number       | EPD-DOR-20240263-CBA1-EN             |
| Issue date               | 29.11.2024                           |
| Valid to                 | 28.11.2029                           |

**Solenoid Locks SVx 6000**  
**dormakaba**

[www.ibu-epd.com](http://www.ibu-epd.com) | <https://epd-online.com>



General Information

|                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                  |                                              |  |                                                                                  |  |                          |            |                                     |            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|--|----------------------------------------------------------------------------------|--|--------------------------|------------|-------------------------------------|------------|
| <b>dormakaba</b>                                                                                                                                              | <b>Solenoid Locks SVx 6000</b>                                                                                                                                                                                                                                                                                                                                   |                                              |  |                                                                                  |  |                          |            |                                     |            |
| <b>Programme holder</b><br>IBU – Institut Bauen und Umwelt e.V.<br>Hegelplatz 1<br>10117 Berlin<br>Germany                                                    | <b>Owner of the declaration</b><br>dormakaba International Holding GmbH<br>DORMA Platz 1<br>58256 Ennepetal<br>Germany                                                                                                                                                                                                                                           |                                              |  |                                                                                  |  |                          |            |                                     |            |
| <b>Declaration number</b><br>EPD-DOR-20240263-CBA1-EN                                                                                                         | <b>Declared product / declared unit</b><br>1 piece of the product: Solenoid Lock SVx 6000, consisting of the following items: <ul style="list-style-type: none"><li>• Solenoid lock</li><li>• Product packaging</li></ul>                                                                                                                                        |                                              |  |                                                                                  |  |                          |            |                                     |            |
| <b>This declaration is based on the product category rules:</b><br>Building Hardware products, 01.08.2021<br>(PCR checked and approved by the SVR)            | <b>Scope:</b><br>This Environmental Product Declaration refers to a specific solenoid lock (SVA 6000) manufactured by dormakaba. This EPD is also representing the variants of SVP 6000 locks. The production site is located in Ennepetal (Germany). Green electricity is being used at this production site.                                                   |                                              |  |                                                                                  |  |                          |            |                                     |            |
| <b>Issue date</b><br>29.11.2024                                                                                                                               | The data represents the year 2022.<br>The owner of the declaration shall be liable for the underlying information and evidence; the IBU shall not be liable with respect to manufacturer information, life cycle assessment data and evidences.                                                                                                                  |                                              |  |                                                                                  |  |                          |            |                                     |            |
| <b>Valid to</b><br>28.11.2029                                                                                                                                 | The EPD was created according to the specifications of EN 15804+A2. In the following, the standard will be simplified as <i>EN 15804</i> .                                                                                                                                                                                                                       |                                              |  |                                                                                  |  |                          |            |                                     |            |
| <br>Dipl.-Ing. Hans Peters<br>(Chairman of Institut Bauen und Umwelt e.V.) | <b>Verification</b> <table><tr><td colspan="2">The standard EN 15804 serves as the core PCR</td></tr><tr><td colspan="2">Independent verification of the declaration and data according to ISO 14025:2011</td></tr><tr><td><input type="checkbox"/></td><td>internally</td></tr><tr><td><input checked="" type="checkbox"/></td><td>externally</td></tr></table> | The standard EN 15804 serves as the core PCR |  | Independent verification of the declaration and data according to ISO 14025:2011 |  | <input type="checkbox"/> | internally | <input checked="" type="checkbox"/> | externally |
| The standard EN 15804 serves as the core PCR                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                  |                                              |  |                                                                                  |  |                          |            |                                     |            |
| Independent verification of the declaration and data according to ISO 14025:2011                                                                              |                                                                                                                                                                                                                                                                                                                                                                  |                                              |  |                                                                                  |  |                          |            |                                     |            |
| <input type="checkbox"/>                                                                                                                                      | internally                                                                                                                                                                                                                                                                                                                                                       |                                              |  |                                                                                  |  |                          |            |                                     |            |
| <input checked="" type="checkbox"/>                                                                                                                           | externally                                                                                                                                                                                                                                                                                                                                                       |                                              |  |                                                                                  |  |                          |            |                                     |            |
| <br>Florian Pronold<br>(Managing Director Institut Bauen und Umwelt e.V.)  | <br>Matthias Klingler,<br>(Independent verifier)                                                                                                                                                                                                                             |                                              |  |                                                                                  |  |                          |            |                                     |            |

## Product

### Product description/Product definition

Self-locking emergency escape locks automatically lock doors after each closing whether mechanically or motor-controlled. The emergency escape function allows the door to be opened at any time in the exit direction by simply operating the lever handle. Mechanical opening from the outside remains possible at any time by unlocking the profile cylinder insert.

SVP 6000 microswitch-monitored emergency-escape lock with automatic locking action and with divided follower, mechanical sequential control and signalling through integrated monitoring contact, automatically locks the doors after each closing cycle. The automatic deadbolt throw of 20 mm ensures that the door is always locked in accordance with property insurance requirements. Meanwhile, thanks to the added one-sided emergency escape function, the door can be opened at any time in the exit direction by simply operating the lever handle or it can be opened from the outside through a key or engageable external lever.

### SVP 6000

- An electrically-monitored panic lock with a split follower for the electrical engagement/disengagement the outside handle and manipulation-protected detectors

### SVA 6000

- Electrically monitored emergency-escape lock with split follower for the electrical engagement/disengagement of the outside lever handle
- Status message for trip latch, bolt, cylinder locking and lever handle

For the use and application of the product the respective national provisions at the place of use apply. The standards which can be applied are the following:

- EN 179
- EN 1125
- EN 12209
- EN 14846
- Restriction of Hazardous Substances (RoHS)

### Application

Solenoid locks are suitable for use in emergency exits and escape routes in compliance with *EN 179* or on panic doors with a horizontal push bar in compliance with *EN 1125*.

### Technical Data

The solenoid locks have following technical properties:

| Name                                                                     | Value       | Unit            |
|--------------------------------------------------------------------------|-------------|-----------------|
| Supply voltage                                                           | 12 or 24    | V DC stabilized |
| Temperature range                                                        | - 25 to +70 | °C              |
| Relative humidity up to 95%                                              | at 55       | °C              |
| Protection category                                                      | 54          | IP              |
| Rear backset                                                             | 33          | mm              |
| Distance between door handle and locking cylinder (for profile cylinder) | 72          | mm              |
| Distance between door handle and locking cylinder (for round cylinder)   | 74          | mm              |
| Bolt throw                                                               | 20          | mm              |

Performance data of the product with respect to its characteristics in accordance with the relevant technical provision which can be applied are mentioned above.

### Base materials/Ancillary materials

The major material composition including the packaging of the product is listed below:

| Name            | Value | Unit |
|-----------------|-------|------|
| Steel           | 66    | %    |
| Stainless steel | 16    | %    |
| Paper           | 15    | %    |
| Plastics        | 2     | %    |
| Electronics     | 1     | %    |

The products include partial articles which contain substances listed in the Candidate List of REACH Regulation 1907/2006/EC (date: 23.01.2024) exceeding 0.1 percentage by mass: yes

- Lead (Pb): 7439-92-1 (CAS-No.) is included in some of the alloys used. The concentration of lead in each individual alloy does not exceed 4.0% (by mass).

The Candidate List can be found on the ECHA website address: <https://echa.europa.eu/de/home>.

### Reference service life

The reference service life of the Solenoid Locks SVx 6000 series amounts to 20 years and depends on the application and frequency of use. For repairs or renewals, suitable spare parts are available. The locks are tested and certified to *EN 14846*, meaning they are designed to withstand a minimum of 200.000 cycles.

## LCA: Calculation rules

### Declared Unit

The declared unit is 1 piece of the product including packaging: SVx 6000.

| Name                                           | Value | Unit          |
|------------------------------------------------|-------|---------------|
| Declared unit                                  | 1     | piece/product |
| Mass of the declared product without packaging | 0.99  | kg            |
| Mass of packaging                              | 0,05  |               |

### System boundary

The type of EPD is according to *EN 15804*: "cradle to gate with options, modules C1–C4, and module D". The following modules are declared: A1-A3, B6, C1-C4, D and additional modules: A4 + A5

### Production - Module A1-A3

The product stage includes:

- A1, raw material extraction, processing and mechanical treatments, processing of secondary material input (e.g. recycling processes),
- A2, transport to the manufacturer,
- A3, manufacturing and assembly including provision of all materials, products and energy,

as well as waste processing up to the end-of waste state.

#### Construction stage - Modules A4-A5

The construction process stage includes:

- A4, transport to the building site;
- A5, installation into the building; including provision of all materials, products and energy, as well as waste processing up to the end-of waste state or disposal of final residues during the construction process stage.

#### Use stage - Module B6

The use stage related to the operation of the building includes:

- B6, operational energy use

#### End-of-life stage— Modules C1-C4 and D

The end-of-life stage includes:

- C1, de-construction, demolition;
- C2, transport to waste processing;
- C3, waste processing for reuse, recovery and/or recycling;

— C4, disposal; including provision and all transport, provision of all materials, products and related energy and water use.

Module D (Benefits and loads beyond the system boundary) includes:

- D, recycling potentials, expressed as net impacts and benefits.

#### Geographic Representativeness

Land or region, in which the declared product system is manufactured, used or handled at the end of the product's lifespan: Global

#### Comparability

Basically, a comparison or an evaluation of EPD data is only possible if all the data sets to be compared were created according to *EN 15804* and the building context, respectively the product-specific characteristics of performance, are taken into account. GaBi, SP40.

## LCA: Scenarios and additional technical information

#### Characteristic product properties of biogenic carbon

Note: 1 kg of biogenic carbon is equivalent to 44/12 kg of CO<sub>2</sub>

| Name                                              | Value | Unit |
|---------------------------------------------------|-------|------|
| Biogenic carbon content in product                | 0.04  | kg C |
| Biogenic carbon content in accompanying packaging | 0.02  | kg C |

Note: 1 kg of biogenic carbon is equivalent to 44/12 kg of CO<sub>2</sub>.

#### Transport to the building site (A4)

| Name                                        | Value   | Unit    |
|---------------------------------------------|---------|---------|
| Litres of fuel (per 1kg)                    | 0.00276 | l/100km |
| Transport distance via truck (for scaling)  | 100     | km      |
| Capacity utilisation (including empty runs) | 55      | %       |
| Transport distance via ship                 | 15000   | km      |

The product is transported via truck. The product is stored in the dormakaba logistic centre in Germany. The main distribution region is Europe and Asia. In order to allow scaling to a specific point of installation 100 km are declared as well.

#### Installation into the building (A5)

| Name                    | Value | Unit |
|-------------------------|-------|------|
| Waste packaging (paper) | 0.045 | kg   |

#### Reference service life

| Name                                    | Value | Unit |
|-----------------------------------------|-------|------|
| Life Span according to the manufacturer | 20    | a    |

#### Operational energy use (B6)

| Name                           | Value | Unit |
|--------------------------------|-------|------|
| Energy consumption for 1 year  | 7.59  | kWh  |
| Active state (hours/day)       | 0.25  | hrs  |
| Idle state (hours/day)         | 23.75 | hrs  |
| Electrical power active state  | 2.88  | W    |
| Electrical power in idle state | 1.2   | W    |

#### End of life (C1-C4)

C1: The product dismantling from the building is done manually without environmental burden.

C2: Transport to waste management is 50 km.

| Name                            | Value | Unit |
|---------------------------------|-------|------|
| Collected separately waste type | 0.99  | kg   |
| Recycling                       | 0.97  | kg   |
| Energy recovery                 | 0.02  | kg   |

The product is disassembled in a recycling process. Material recycling is then assumed for the metals. The plastic components are assumed to be incinerated with energy recovery.

Region for the End of Life is: Europe.

#### Reuse, recovery and/or recycling potentials (D), relevant scenario information

| Name      | Value | Unit |
|-----------|-------|------|
| Recycling | 100   | %    |

The collection rate is 100 %.

## LCA: Results

DESCRIPTION OF THE SYSTEM BOUNDARY (X = INCLUDED IN LCA; MND = MODULE OR INDICATOR NOT DECLARED; MNR = MODULE NOT RELEVANT)

| Product stage       |           |               | Construction process stage          |          | Use stage |             |        |             |               |                        |                       | End of life stage          |           |                  |          | Benefits and loads beyond the system boundaries |
|---------------------|-----------|---------------|-------------------------------------|----------|-----------|-------------|--------|-------------|---------------|------------------------|-----------------------|----------------------------|-----------|------------------|----------|-------------------------------------------------|
| Raw material supply | Transport | Manufacturing | Transport from the gate to the site | Assembly | Use       | Maintenance | Repair | Replacement | Refurbishment | Operational energy use | Operational water use | De-construction demolition | Transport | Waste processing | Disposal | Reuse-Recovery-Recycling-potential              |
| A1                  | A2        | A3            | A4                                  | A5       | B1        | B2          | B3     | B4          | B5            | B6                     | B7                    | C1                         | C2        | C3               | C4       | D                                               |
| X                   | X         | X             | X                                   | X        | MND       | MND         | MNR    | MNR         | MNR           | X                      | MND                   | X                          | X         | X                | X        | X                                               |

### RESULTS OF THE LCA - ENVIRONMENTAL IMPACT according to EN 15804+A2: 1 piece Solenoid Lock SVX 6000

| Parameter      | Unit                             | A1-A3     | A4       | A5       | B6       | C1 | C2       | C3       | C4 | D         |
|----------------|----------------------------------|-----------|----------|----------|----------|----|----------|----------|----|-----------|
| GWP-total      | kg CO <sub>2</sub> eq            | 6.76E+00  | 9E-03    | 6.5E-02  | 6.14E+01 | 0  | 4E-03    | 2.33E-01 | 0  | -2.29E+00 |
| GWP-fossil     | kg CO <sub>2</sub> eq            | 6.98E+00  | 9E-03    | 2E-03    | 6.11E+01 | 0  | 4E-03    | 5.2E-02  | 0  | -2.29E+00 |
| GWP-biogenic   | kg CO <sub>2</sub> eq            | -2.22E-01 | 4E-04    | 6.3E-02  | 2.04E-01 | 0  | 1.79E-04 | 1.81E-01 | 0  | 2E-03     |
| GWP-luluc      | kg CO <sub>2</sub> eq            | 5.34E-03  | 2.06E-07 | 1.06E-06 | 8.9E-02  | 0  | 9.21E-08 | 4.55E-06 | 0  | -2E-03    |
| ODP            | kg CFC11 eq                      | 7.47E-11  | 9.14E-19 | 1.16E-17 | 1.34E-12 | 0  | 4.08E-19 | 4.72E-17 | 0  | -1.41E-15 |
| AP             | mol H <sup>+</sup> eq            | 4.26E-02  | 8.67E-06 | 1.81E-05 | 1.35E-01 | 0  | 3.87E-06 | 3.51E-05 | 0  | -1.9E-02  |
| EP-freshwater  | kg P eq                          | 1.67E-05  | 1.85E-09 | 2.27E-09 | 1.63E-04 | 0  | 8.28E-10 | 7.29E-09 | 0  | -9.89E-07 |
| EP-marine      | kg N eq                          | 6.16E-03  | 2.76E-06 | 6.52E-06 | 3E-02    | 0  | 1.23E-06 | 1.05E-05 | 0  | -3E-03    |
| EP-terrestrial | mol N eq                         | 6.71E-02  | 3.07E-05 | 8.13E-05 | 3.15E-01 | 0  | 1.37E-05 | 1.64E-04 | 0  | -2.7E-02  |
| POCP           | kg NMVOC eq                      | 1.84E-02  | 7.8E-06  | 1.73E-05 | 8.2E-02  | 0  | 3.48E-06 | 2.87E-05 | 0  | -8E-03    |
| ADPE           | kg Sb eq                         | 6.98E-04  | 2.6E-10  | 1.84E-10 | 1.77E-05 | 0  | 1.16E-10 | 6.97E-10 | 0  | -6.82E-04 |
| ADPF           | MJ                               | 9.21E+01  | 1.23E-01 | 2E-02    | 1.07E+03 | 0  | 5.5E-02  | 6.2E-02  | 0  | -2.37E+01 |
| WDP            | m <sup>3</sup> world eq deprived | 1.17E+00  | 1.7E-05  | 8E-03    | 1.33E+01 | 0  | 7.58E-06 | 2.4E-02  | 0  | -3.96E-01 |

GWP = Global warming potential; ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential of land and water; EP = Eutrophication potential; POCP = Formation potential of tropospheric ozone photochemical oxidants; ADPE = Abiotic depletion potential for non-fossil resources; ADPF = Abiotic depletion potential for fossil resources; WDP = Water (user) deprivation potential

### RESULTS OF THE LCA - INDICATORS TO DESCRIBE RESOURCE USE according to EN 15804+A2: 1 piece Solenoid Lock SVX 6000

| Parameter | Unit           | A1-A3    | A4       | A5        | B6       | C1 | C2       | C3        | C4 | D         |
|-----------|----------------|----------|----------|-----------|----------|----|----------|-----------|----|-----------|
| PERE      | MJ             | 2.04E+01 | 3.87E-04 | 5.5E-01   | 4.76E+02 | 0  | 1.73E-04 | 1.23E+00  | 0  | -2.14E+00 |
| PERM      | MJ             | 1.76E+00 | 0        | -5.46E-01 | 0        | 0  | 0        | -1.21E+00 | 0  | 0         |
| PERT      | MJ             | 2.22E+01 | 3.87E-04 | 4E-03     | 4.76E+02 | 0  | 1.73E-04 | 1.3E-02   | 0  | -2.14E+00 |
| PENRE     | MJ             | 9.21E+01 | 1.23E-01 | 2E-02     | 1.07E+03 | 0  | 5.5E-02  | 6.79E-01  | 0  | -2.38E+01 |
| PENRM     | MJ             | 6.17E-01 | 0        | 0         | 0        | 0  | 0        | -6.17E-01 | 0  | 0         |
| PENRT     | MJ             | 9.27E+01 | 1.23E-01 | 2E-02     | 1.07E+03 | 0  | 5.5E-02  | 6.2E-02   | 0  | -2.38E+01 |
| SM        | kg             | 3.98E-01 | 0        | 0         | 0        | 0  | 0        | 0         | 0  | 0         |
| RSF       | MJ             | 0        | 0        | 0         | 0        | 0  | 0        | 0         | 0  | 0         |
| NRSF      | MJ             | 0        | 0        | 0         | 0        | 0  | 0        | 0         | 0  | 0         |
| FW        | m <sup>3</sup> | 4.1E-02  | 6.95E-07 | 1.88E-04  | 5.51E-01 | 0  | 3.1E-07  | 5.66E-04  | 0  | -1.5E-02  |

PERE = Use of renewable primary energy excluding renewable primary energy resources used as raw materials; PERM = Use of renewable primary energy resources used as raw materials; PERT = Total use of renewable primary energy resources; PENRE = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials; PENRM = Use of non-renewable primary energy resources used as raw materials; PENRT = Total use of non-renewable primary energy resources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Use of net fresh water

### RESULTS OF THE LCA - WASTE CATEGORIES AND OUTPUT FLOWS according to EN 15804+A2: 1 piece Solenoid Lock SVX 6000

| Parameter | Unit | A1-A3    | A4       | A5       | B6       | C1 | C2       | C3       | C4 | D         |
|-----------|------|----------|----------|----------|----------|----|----------|----------|----|-----------|
| HWD       | kg   | 7.36E-07 | 1.19E-11 | 3E-11    | 4.45E-07 | 0  | 5.33E-12 | 1.15E-10 | 0  | -6.57E-08 |
| NHWD      | kg   | 1.97E-01 | 1.26E-05 | 2E-03    | 7.62E-01 | 0  | 5.61E-06 | 6E-03    | 0  | -8.7E-02  |
| RWD       | kg   | 3.4E-03  | 1.32E-07 | 1.07E-06 | 1.63E-01 | 0  | 5.89E-08 | 3.11E-06 | 0  | -2.23E-04 |
| CRU       | kg   | 0        | 0        | 0        | 0        | 0  | 0        | 0        | 0  | 0         |
| MFR       | kg   | 0        | 0        | 0        | 0        | 0  | 0        | 8.05E-01 | 0  | 0         |
| MER       | kg   | 0        | 0        | 0        | 0        | 0  | 0        | 0        | 0  | 0         |
| EEE       | MJ   | 0        | 0        | 9.8E-02  | 0        | 0  | 0        | 3.64E-01 | 0  | 0         |
| EET       | MJ   | 0        | 0        | 1.77E-01 | 0        | 0  | 0        | 7.03E-01 | 0  | 0         |

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; EEE = Exported electrical energy; EET = Exported thermal energy

## RESULTS OF THE LCA – additional impact categories according to EN 15804+A2-optional: 1 piece Solenoid Lock SVX 6000

| Parameter | Unit              | A1-A3    | A4       | A5       | B6       | C1 | C2       | C3       | C4 | D         |
|-----------|-------------------|----------|----------|----------|----------|----|----------|----------|----|-----------|
| PM        | Disease incidence | 4.63E-07 | 4.56E-11 | 1E-10    | 1.13E-06 | 0  | 2.04E-11 | 2.45E-10 | 0  | -1.98E-07 |
| IR        | kBq U235 eq       | 3.5E-01  | 1.89E-05 | 1.66E-04 | 2.67E+01 | 0  | 8.42E-06 | 4.33E-04 | 0  | -2.8E-02  |
| ETP-fw    | CTUe              | 4.77E+01 | 8.7E-02  | 1E-02    | 4.6E+02  | 0  | 3.9E-02  | 2.6E-02  | 0  | -7.21E+00 |
| HTP-c     | CTUh              | 2.14E-07 | 1.64E-12 | 5.11E-13 | 1.27E-08 | 0  | 7.31E-13 | 1.88E-12 | 0  | -2.51E-09 |
| HTP-nc    | CTUh              | 1.09E-07 | 7E-11    | 2.22E-11 | 4.68E-07 | 0  | 3.13E-11 | 1.15E-10 | 0  | -1.43E-08 |
| SQP       | SQP               | 4.68E+01 | 3.16E-04 | 5E-03    | 3.42E+02 | 0  | 1.41E-04 | 1.8E-02  | 0  | -1.64E+00 |

PM = Potential incidence of disease due to PM emissions; IR = Potential Human exposure efficiency relative to U235; ETP-fw = Potential comparative Toxic Unit for ecosystems; HTP-c = Potential comparative Toxic Unit for humans (cancerogenic); HTP-nc = Potential comparative Toxic Unit for humans (not cancerogenic); SQP = Potential soil quality index

Disclaimer 1 – for the indicator “Potential Human exposure efficiency relative to U235”. 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 or radioactive waste disposal in underground facilities. Potential ionizing radiation from the soil, radon and from some construction materials is also not measured by this indicator.

Disclaimer 2 – for the indicators “abiotic depletion potential for non-fossil resources”, “abiotic depletion potential for fossil resources”, “water (user) deprivation potential, deprivation-weighted water consumption”, “potential comparative toxic unit for ecosystems”, “potential comparative toxic unit for humans – cancerogenic”, “Potential comparative toxic unit for humans - not cancerogenic”, “potential soil quality index”. The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high as there is limited experience with the indicator.

This EPD was created using a software tool.

## References

### EN 179

EN 179:2008-04; Building hardware - Emergency exit devices operated by a lever handle or push pad, for use on escape routes - Requirements and test methods

### EN 1125

EN 1125:2008-04; Building hardware - Panic exit devices operated by a horizontal bar, for use on escape routes - Requirements and test methods

### EN 12209

EN 12209:2016-10; Building hardware - Mechanically operated locks and locking plates - Requirements and test methods

### EN 14846

EN 14846:2008-11; Building hardware - Locks and latches - Electromechanically operated locks and striking plates - Requirements and test methods

### EN 15804

EN15804+A2:2019+AC:2021; Sustainability of construction works — Environmental Product Declarations — Core rules for the product category of construction products

### ISO 14025

DIN EN ISO 14025:201110; Environmental labels and declarations — Type III environmental declarations — Principles and procedures

### REACH

Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

### ROHS3 Directive

Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment

### Further References

#### IBU 2021

General Instructions for the EPD programme of Institut Bauen und Umwelt e.V. Version 2.0, Berlin: Institut Bauen und Umwelt e.V., 2021. [www.ibu-epd.com](http://www.ibu-epd.com)

#### GaBi

Sphera Solutions GmbH Gabi Software System and Database for Life Cycle Engineering 1992-2020 Version 10.0.0.71 University of Stuttgart Leinfelden-Echterdingen

#### GaBi ts documentation

GaBi life cycle inventory data documentation (<https://www.gabi-software.com/support/gabi/gabidatabase-2020-lci-documentation/>)

#### LCA-tool dormakaba

LCA tool DHW. LCA-Tool No.: IBU-DOR-202104-LT1-EN. Developed by Sphera Solutions GmbH

#### PCR Part A

PCR – Part A: Calculation Rules for the Life Cycle Assessment and Requirements on the Project Report according to EN 15804+A2:2019, Version 1.0, 2020, Institut Bauen und Umwelt e.V., [www.ibu-epd.com](http://www.ibu-epd.com)

#### PCR Part B

PCR – Part B: Requirements on the EPD for Building Hardware product, version 08/2021, Institut Bauen und Umwelt e.V., [www.ibu-epd.com](http://www.ibu-epd.com).



**Publisher**

Institut Bauen und Umwelt e.V.  
Hegelplatz 1  
10117 Berlin  
Germany

+49 (0)30 3087748- 0  
[info@ibu-epd.com](mailto:info@ibu-epd.com)  
[www.ibu-epd.com](http://www.ibu-epd.com)

---



**Programme holder**

Institut Bauen und Umwelt e.V.  
Hegelplatz 1  
10117 Berlin  
Germany

+49 (0)30 3087748- 0  
[info@ibu-epd.com](mailto:info@ibu-epd.com)  
[www.ibu-epd.com](http://www.ibu-epd.com)

---



**Author of the Life Cycle Assessment**

dormakaba International Holding GmbH  
DORMA Platz 1  
58256 Ennepetal  
Germany

+49 2333 793-0  
[info.de@dormakaba.com](mailto:info.de@dormakaba.com)  
[www.dormakaba.com](http://www.dormakaba.com)

---



**Owner of the Declaration**

dormakaba International Holding GmbH  
DORMA Platz 1  
58256 Ennepetal  
Germany

+49 2333 793-0  
[info.de@dormakaba.com](mailto:info.de@dormakaba.com)  
[www.dormakaba.com](http://www.dormakaba.com)