ENVIRONMENTAL PRODUCT DECLARATION

as per ISO 14025 and EN 15804

Owner of the Declaration	ARGE; European Federation of Associations of Lock and Builders Hardware Manufacturers
Programme holder	Institut Bauen und Umwelt e.V. (IBU)
Publisher	Institut Bauen und Umwelt e.V. (IBU)
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Valid to	13.09.2022

Window fittings ARGE; European Federation of Associations of Lock and Builders Hardware Manufacturers

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ARGE

General Information

ARGE

Programme holder

IBU - Institut Bauen und Umwelt e.V. Panoramastr. 1 10178 Berlin Germany

Declaration number FPD-ARG-20160194-IBG1-FN

This Declaration is based on the Product Category Rules: Building Hardware products, 02.2016 (PCR tested and approved by the SVR)

Issue date

14.09.2016

Valid to

13.09.2022

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Prof. Dr.-Ing. Horst J. Bossenmayer (President of Institut Bauen und Umwelt e.V.)

Mann

Dr. Burkhart Lehmann (Managing Director IBU)

Window fittings

Owner of the Declaration

ARGE; European Federation of Associations of Lock and Builders Hardware Manufacturers Offerstraße 12, 42551 Velbert Germany

Declared product / Declared unit

1 kg of window fittings Scope:

This ARGE EPD covers windows fittings designed to be integrated into window assemblies of varying materials and applications. The reference product used to calculate the impact this product group has on the environment is a window fitting composed primarily of zinc-based alloy, aluminium and steel and has been selected for the LCA (Life Cycle Assessment) because it is the product with the highest impact for 1 kg of product. A validity scope analysis has also been carried out to determine the limiting factors for window fitings covered by this EPD. In a preliminary study (simplified LCA), it has been confirmed that this EPD represents the worst case condition and it can therefore be used to cover all window fittings manufactured in Europe by ARGE member companies. The owner of the declaration shall be liable for the underlying information and evidence, but the ARGE programme holder (IBU) cannot be held responsible for manufacturer's information, life cycle assessment data or evidence.

Verification

The CEN Norm /EN 15804	/ serves as the core PC	R							
Independent verification of the declaration									
according to /	according to /ISO 14025/								
internally	x externally								

Dr. Frank Werner

(Independent verifier appointed by SVR)

2. Product

2.1 Product description

This EPD refers to mechanisms that allow the opening and closing of windows having a range of actions (e.g. pivoting, sliding, tilt and turn, etc.) It covers products with different raw material composition and different designs.

2.2 Application

These products are designed to be integrated into window assemblies of varying materials and applications. Their purpose is to ensure the correct functionality of the window. They may be used for either interior or exterior windows.

2.3 Technical Data

Ideally, products should comply with a suitable technical specification. / EN 13126/ - Hardware for windows and door height windows, is an example of such a specification and some products will comply

with this. The relevant grading structure is shown in the following table:

Name	Value	Unit
Category of use	-	Grade
Durability	3, 4, 5	Grade
Sash mass	-	Grade
Fire resistance	0	Grade
Safety	1	Grade
Corrosion resistance	2, 3, 4	Grade
Security – burglar resistance	-	Grade
Hinge grade	2 - 17	Grade

2.4 Application rules

Since EN 13126 is not a harmonized standard, it is not subject to the terms of the CPR and compliance with



the standard is purely voluntary. National provisions however (e.g. Building Regulations) may still apply.

2.5 Delivery status

The products are sold by unit. Deliveries of a single unit might be possible but will be an exception. Regular deliveries will cover a larger amount of window fittings as they are put on the market as "B2B" product and not for a final customer.

2.6 Base materials / Ancillary materials

Composition of product analysed for this EPD:

The values given in the table below are for the product analysed for this EPD. Ranges of the values for other products covered by the validity scope analysis are shown in brackets.

Name	Value	Unit
Zinc (0.00% – 59.19%)	59.19	%
Steel (19.43% – 91.01%)	19.43	%
Aluminium (0.00% – 19.22%)	19.22	%
Stainless steel (0.00% – 6.60%)	0.82	%
Nylon 66 (0.67% – 5.23%)	1.34	%
ABS (0.00% – 0.06%)	0	%
Polyethylene high density (0.00% – 0.75%)	0	%
Nylon 6 (0.00% – 0.10%)	0	%
Polypropylene (0.00% – 0.13%)	0	%
Zinc-based alloy (0.00% – 10.79%)	0	%
ASA (0.00% – 0.21%)	0	%

The product does not contain substances cited on the REACH list of hazardous substances.

Zinc metal is produced using extractive metallurgy. The subcomponents made of zinc are made by die casting.

Aluminium is a non-ferrous metal produced from bauxite by the Bayer process. Subcomponents made of aluminium are made by extrusion.

Nylon 66 is a polyamide produced by the polycondensation of hexamethylenediamine and adipic acid in equal parts. This can then be combined with glass fibres to improve its mechanical properties. Subcomponents made of nylon are formed by injection moulding.

Steel is produced by combining iron with carbon as well as other elements depending on the desired characteristics. The subcomponents made of steel are formed by stamping.

Stainless steel is produced by combining iron with chromium as well as other elements depending on the desired characteristics. The subcomponents made of steel are formed by stamping.

2.7 Manufacture

The production of a windows fitting normally follows a 3 step procedure:

1. Prefabrication of the semi-finished products, this step might include a surface treatment on factory site or by external manufacturers.

Preassembly of assembly modules (onsite factory)
 Final assembly (onsite factory)

The individual parts of the product are assembled manually.

2.8 Environment and health during manufacturing

Regular measurements of air quality and noise levels are performed by ARGE member manufacturers. The results shall be within the compulsory safety levels. In areas where employees are exposed to chemical products, prescribed safety clothes and technical safety devices shall be provided. Regular health checks are mandatory for employees of production sites.

2.9 Product processing/Installation

The installation of the product could vary depending on the type of door and the specific situation but products shall not require energy consumption for installation.

2.10 Packaging

Normally each single product is packaged in paper. They are then packed by batch in a cardboard box and then get stacked on wooden pallets for transport to the customer (Door or window manufacturers). Waste from product packaging is collected separately for waste disposal (including recycling).

2.11 Condition of use

Once installed, the products shall require no servicing during their expected service lives. There shall be no consumption of water or energy linked to their use, and they shall not cause any emissions.

2.12 Environment and health during use

No environmental damage or health risks are to be expected during normal conditions of use.

2.13 Reference service life

The Reference Service Life is 30 years under normal working conditions. This corresponds to passing a mechanical endurance test of 25.000 cycles as specified in the /EN 13126/. The Reference Service Life is dependent on the actual frequency of use and environmental conditions. It is required that installation, as well as maintenance of the product, must be done in line with instructions provided by the manufacturer.

2.14 Extraordinary effects

Fire

There are no specific fire resistance requirements.

Water

The declared product is intended to be used in buildings under normal conditions (indoor or outdoor use). The product shall not emit hazardous substances in the event of flooding.

Mechanical destruction

Mechanical destruction of the declared product shall not materially alter its composition or have any adverse effect on the environment.

2.15 Re-use phase

Removal of window fittings (for re-use or re-cycling) shall have no adverse effect on the environment.

2.16 Disposal

Window fittings should be re-cycled wherever possible, providing that there is no adverse effect on the environment. The waste code in accordance with the /European Waste Code/ is17 04 07.



Details of all types and variants to be shown on the manufacturers' websites listed on http://arge.org/members/members-directory.html

3. LCA: Calculation rules

3.1 Declared Unit

The declared unit for all products covered by ARGE EPD is 1 kg (of product). Since individual products will rarely weigh exactly 1 kg it is necessary to establish the exact weight of the product then use this as a correction factor to determine the true values for 1 kg of product in the tables (Section 5).

A total of three typical products (based on sales figures) have been evaluated, and the worst case results are used in the tables

Correction factor

Name	Value	Unit
Declared unit mass	1	kg
Mass of declared product	1.47	Kg
Correction factor	Divide	by 1.47

3.2 System boundary

This type of the EPD covers "cradle-to-grave" requirements.

The analysis of the product life cycle includes the production and transport of the raw materials, manufacture of the product and the packaging materials, which are declared in modules A1-A3. Losses during production are considered as waste and are sent for recycling. No recycling processes are taken into account except transport and electricity consumption for grinding the metals. When recycled metals are used as raw material, only their transformation process is taken into account and not

the extraction of the raw material. A4 module represents the transport of the finished product to the installation site.

There is no waste associated with the installation of the product. The A5 module therefore represents only the disposal of the product packaging.

For the RSL considered for this study, there are no inputs or outputs for the stages B1-B7.

The End-of-Life (EoL) stages are also considered. The transportation to the EoL disposal site is taken into account in module C2. Module C4 covers the disposal of the window fitting. Module C3 covers the recycling of the individual elements according to European averages, with the remaining waste divided between incineration and landfill. The same assumption as for waste to recycling in A3 is used here.

For end-of-life modules (C1 to C4) the system boundaries from the /XP P01-064/CN/ standard have been followed, see annex H.2 and H.6 of this standard document for figures and further details.

In practice, the end-of-life has been modelled as follows:

- When material is sent for recycling, generic transport and electric consumption of a shredder is taken into account (corresponding to the process "Grinding, metals"). Only then is the material considered to have attained the "end of waste" state.

Each type of waste is modelled as transport to the treatment site over a distance of 30 km (source: /FD P01-015/). Parts sent for recycling include an electricity

consumption (grinding) and a flow ("Materials for recycling, unspecified").

Four scenarios for the end-of-life of the products have been declared for this EPD:

- 1. 100% of the product going to landfill
- 2. 100% of the product going to incineration
- 3. 100% of the product going to recycling

4. Mixed scenario consisting of the previous three scenarios, values depending on the amount of waste going for recycling.

Module D has not been declared.

3.3 Estimates and assumptions

The LCA data of the declared windows fitting has been calculated from the production data of one ARGE member company, representing 3 different products. This company had been chosen by ARGE as being representative by means of its production processes and its market share. The window fittings chosen as representative for this calculation follow the "worst case" principle as explained under section 6. LCA interpretation.

3.4 Cut-off criteria

The cut -off criteria considered are 1% of renewable and non-renewable primary energy usage and 1% of the total mass of that unit process. The total neglected input flows per module shall be a maximum of 5% of energy usage and mass.

For this study, all input and output flows have been considered at 100%, including raw materials as per the product composition provided by the manufacturer and packaging of raw materials as well as the final product. Energy and water consumptions have also been considered at 100% according to the data provided. With the approach chosen, no significant environmental impacts are known to have been cut-off.

3.5 Background data

For life cycle modelling of the considered product, all relevant background datasets are taken from the ecoinvent 3.1 – Alloc Rec database. The life cycle analysis software used is SimaPro (V8.0.5), developed by PRé Consulting.

3.6 Data quality

The time factor and the life cycle inventory data used comes from:

Data collected specifically for this study on the ARGE manufacturer's site. Data sets are based on 1-year averaged data (time period: January 2013 to December 2013).

In the absence of collected data, generic data is obtained from the /ecoinvent V3/ database. It is updated regularly and is representative of current processes (the entire database having been updated in 2014).

3.7 Period under review

The data of the LCA is based on the annual production data of an ARGE member company from 2013. Other values, e.g. for the processing of the base materials, are taken from the/ ecoinvent v3/.1 Alloc

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Rec where the dataset age varies for each dataset, see ecoinvent documentation for more information.

3.8 Allocation

The products covered by this EPD are produced in one production site. All data was provided by the manufacturer of the products per unit and then divided by the mass of the product to give a value per kg of product produced. The assumptions relating to the EoL of the product are described in the section System Boundaries.

3.9 Comparability

Basically, a comparison or an evaluation of EPD data is only possible if all the data sets to be compared are created according to /EN 15804/ and the building context, respectively the product-specific characteristics of performance, are taken into account. The used background database has to be mentioned.

4. LCA: Scenarios and additional technical information

The following technical information is a basis for the declared modules or can be used for developing specific scenarios in the context of a building assessment for Modules Not Declared (MND).

Transport to the building site (A4)

Name	Value	Unit
Litres of fuel	0.0045	l/100km
Transport distance	3500	km
Capacity utilisation (including empty runs)	36	%

Installation into the building (A5)

Value	Unit
0.144	kg
().144

Reference service life

Name	Value	Unit
Reference service life (condition of use see §2.13)	30	а

End of life (C1-C4)

Name	Value	Unit
Collected separately (All scenarii)	1	kg
Recycling (Mixed scenario)	0.317	kg
Energy recovery (Mixed scenario)	0.314	kg
Landfilling (Mixed scenario)	0.369	kg
Incineration (100% incineration	1	kg
scenario) Scenario 1	I	ĸġ
Landfilling (Landfill scenario)	1	ka
Scenario 2	I	kg
Recycling (100% recycling	1	ka
scenario) Scenario 3	I	kg

It is assumed that a 16-32 ton truck is used to transport the product over the (up to) 30 km distance between the dismantling site and the next treatment site (source: FD P01-015).

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

As Module D has not been declared, materials destined for recycling have been accounted for in the indicator "Materials for recycling" however, no benefit has been allocated.

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5. LCA: Results

In Table 1 "Description of the system boundary", the declared modules are indicated with an "X"; all modules that are not declared within the EPD but where additional data are available are indicated with "MND". Those data can also be used for building assessment scenarios. The values are declared with three valid digits in exponential form.

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| ODP | [kg CF0 | C11-Eq.] | 6.14E-7

 | 1.08E-7

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 | 9.26E-
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 | + 9.30E
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| EP | [kg (PC | D₄) ³⁻ -Eq.] | 9.36E-3

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 | 6.29E-6

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| POCP | [kg eth | ene-Eq.] | 5.82E-3

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| ADPE | [kg S | b-Eq.] | 4.69E-3

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| Caption Eutrophication potential; POCP = Formation potential of tropospheric ozone photochemical oxidants; ADPE = Abiotic depletion potential for non-
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 | ADPE =
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1 4.94E-5 | C4/1 C4/1 1.14E-2 0.00E+(1.14E-2 3.3.86E-1 | C4/2
2.11E-2
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2.11E-2
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3.86E-1
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0.00E+0
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Unit 4
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 | A RE A4

 | P = Forr
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Unit 4
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[MJ] 1.
[MJ] 9
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[MJ] 0. | IE LC; 14-A3 94E+1 94E+1 1 21E+0 0. 16E+1 1. 20E+29. 36E-1 34E+1 0. 21E+2 9. 36E-1 0. 21E+2 9. 87E-1 0. 00E+0 0.

 | A RE A4

 | P = Forr fc SOUF A5 06E-3 0. - 0. - 0. - 0. - 0. - 0. - 0. - 0. - 0. - 0. - 0. - 0. - 0. - 0. - 0. - 0. - 0. - 0. - 0.0 - 0.0 0.00 0.0

 | nation pc pssil resolution CE 00E+0

 | SE: 1 SE: 1 C2 0 00E+0 0 61E-4 9 00E+0 0 61E-4 9 02E+2 7 00E+0 0 82E-2 7 00E+0 0 02E+2 7 00E+0 0

 | bit froposo ADPF = kg of c2/1 0.61E-4 0.00E+0 0.00E+0 0.00E+0 0.00E+0 | spheric c
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 | ADPE =
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0 1.72E-
0 1.95E-
0 0.00E+
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Unit 4
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 | A - RE
A4
.12E-1 2.
.00E+0 1.
.12E-1 1.
.13E+0 3.
.00E+0 4.
.13E+0 -3.
.00E+0 0.0
.00E+0 0.0

 | P = Forr
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SOUF
A5
06E-3 0.1
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 | nation pc pssil resord C1 00E+0

 | SE: 1 61E-4 9 00E+0 0 61E-4 9 02E+0 0 63E-2 7 00E+0 0 82E-2 7 00E+0 0 02E+0 0 02E+0 0 00E+0 0 00E+0 0

 | ADPF = kg of C2/1 0.61E-4 0.61E-4 0.61E-4 0.61E-4 0.61E-4 0.61E-4 0.61E-4 0.00E+0 | spheric c
Abiotic
C2/2
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9.61E-4
9.61E-4
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7.82E-2
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Unit A
[MJ] 1.
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 | A - RE
A4
12E-1 2.
00E+0 1.
13E+0 3.
00E+0 3.
00E+0 0.1
00E+0 0.1
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 | P = Forr
fc
SOUF
A5

 | nation pc pssil resort C1 00E+0

 | SE: 1 C2 61E-4 9 61E-4 9 00E+0 0 61E-4 9 00E+0 0 62E-2 7 00E+0 0 00E+0 00E+0 0 00E+0 0 00E+0 00E+0 00E+0

 | ADPF = kg of C2/1 0.61E-4 0.61E-4 0.61E-4 0.61E-4 0.61E-4 0.61E-4 0.61E-4 0.00E+00 0.82E-2 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 | spheric c
Abiotic
Abiotic
C2/2
9.61E-4
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depletic
22/3
9.61E-4
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9.61E-4
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7.82E-2
0.00E+(
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1.48E-5) | Anotochon pote n pote tting 8.61E 0.00E 8.61E 0.00E 8.61E 0.00E 9.77E 0.00E

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 | ADPE =
urces
C3/3
0 1.72E-
0 0.00E+
0 1.95E-
0 0.00E+
0 1.95E-
0 0.00E+
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C4
2 2.23E-4
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2 2.23E-4
1 4.94E-5
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0 0.0E | C4/1 1.14E-2 0.00E+(1.14E-2 3.86E-1 0.00E+(3.86E-1 0.00E+(1.17E-3 | C4/2
2.11E-2
0.00E+0
2.11E-2
3.53E-1
0.00E+0
3.53E-1
0.00E+0
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3.42E-4 | C4/3
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| RESU
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 | A - RE
A4
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.00E+0 1.
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.12E-1 1.
.13E+0 3.
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.72E-3 2.
enewable

 | P = Forr
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SOUT
A5
06E-3 0.1
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40E+0 0.1
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 | Stential (urces; A SE: 1 C2 61E-4 00E+00 61E-4 63E-2 00E+00 32E-2 00E+00 00E+0 00E+0 00E+0 00E+0 00E+0 00E+10 0E+10 0E+10

 | ADPF = kg of 0.61E-4 0.61E-4 0.00E+0 0.61E-4 0.00E+0 0. | spheric c
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C2/2
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9.61E-4
7.82E-2
0.00E+0
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newables; PERT
 | 22010 p
depletic
22/3
9.61E-4
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1 C3/2
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C3/3
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0 1.95E-
0 0.00E+
0 1.95E-
0 0.00E+
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C4
2 2.23E-4
0 0.00E+1
2 2.23E-4
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2 0.00E+1
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0 0.00E+1
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5 9.68E-6
9 0.68E+1
5 9.68E-6
9 0.68E+1
0 0.00E+1
1 4.94E-5
0 0.00E+1
0 0.00 | C4/1 1.14E-2 0.00E+(1.14E-2 3.86E-1 0.00E+(3.86E-1 0.00E+(0.00E+(3.86E-1 0.00E+(0.00E+(0.00E+(1.17E-3 1.17E-3 1.17E-3 ials; PE urces; F
 | C4/2
2.11E-2
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RM = US
RM = US | C4/3
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 | A - RE
A4
.12E-1 2.
.00E+0 1.
.12E-1 1.
.12E-1 1.
.13E+0 3.
.00E+0 6.
.00E+0 0.0
.00E+0 0.0

 | P = Forr
fc
SOUF
A5
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-
40E+0
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 | Stential of urces; A SE: 1 C2 61E-4 00E+00 61E-4 00E+00 62E-2 00E+00 32E-2 00E+00 32E-2 00E+00 32E-2 00E+00 348E-5 y exclus s raw m on-re

 | ADPF = kg of C2/1 0.61E-4 0.00E+0C .00E+0C .00E | spheric of
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Other end of life scenarios have been calculated in order to build specific end of life scenario at the building level:

- scenario 1: the product is considered to be 100% incinerated
- scenario 2: the product is considered to be 100% landfilled
- scenario 3: the product is considered to be 100% recycled

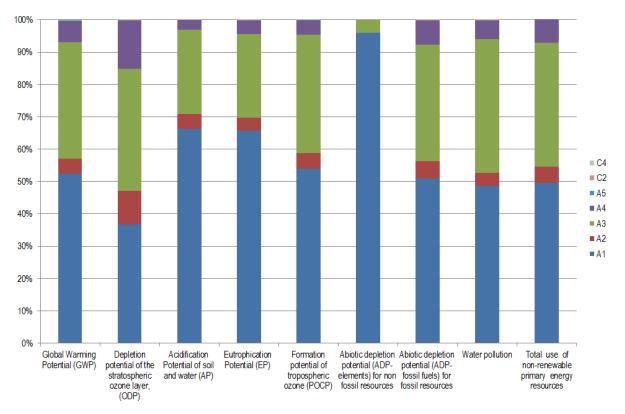
6. LCA: Interpretation

Raw material extraction (A1) and production (A3) phases are the main contributors to all indicators. Their impacts come from zinc extraction and losses during the manufacturing. Transport phase (A4) to building site is a non-negligible contributor to the impacts, especially for the ODP indicator.

This chapter contains an interpretation of the Life Cycle Impact Assessment categories. When

expressed as a percentage, the impact refers to its magnitude expressed as a percentage of total product impact across all modules, with the exception of module D.

The results are conservative as complying with the composition given in section 2.6.



7. Requisite evidence

No testing results are required by the PCR part B.

8. References

ISO 14040

ISO 14040:2006-10, Environmental management – Life cycle assessment – Principles and framework (ISO 14040:2006); German and English version EN ISO 14040:2006

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DIN EN ISO 14044:2006-10, Environmental Management – Life Cycle Assessment – Requirements and Instructions (ISO 14044:2006); German and English version EN ISO 14044:2006

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CEN/TR 15941:2010-03, Sustainability of construction works – Environmental Product Declarations –

Methodology for selection and use of generic data; German version CEN/TR 15941:2010

EN 13126

EN 13126, parts 1-19: various years, Building hardware -Hardware for windows and balcony doors – Requirements and test methods

FD P01-015

FD P01-015:2006, Environmental quality of construction products

IBU PCR part A

Part A: Calculation Rules for the Life Cycle Assessment and Requirements on the Project report, 2016-08.



IBU PCR part B

Part B: Requirements on the EPD for Building Hardware products, 2016-02. Energy and transport data sheet

European Waste Code

epa – European Waste Catalogue and Hazardous Waste List – 01-2002.

Ecoinvent 3.1

Ecoinvent 3.1 - Allocation Recycling database.

IBU PCR part A

Part A: Calculation Rules for the Life Cycle Assessment and Requirements on the Project report, 2016-08.

IBU PCR part B

Part B: Requirements on the EPD for Building Hardware products, 2016-02.

Institut Bauen und Umwelt

Institut Bauen und Umwelt e.V., Berlin(pub.): Generation of Environmental Product Declarations (EPDs); www.ibu-epd.de

ISO 14025

DIN EN ISO 14025:2011-10: Environmental labels and declarations — Type III environmental declarations — Principles and procedures

EN 15804

EN 15804:2012-04+A1 2013: Sustainability of construction works — Environmental Product Declarations — Core rules for the product category of construction products

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