ENVIRONMENTAL PRODUCT DECLARATION

as per ISO 14025 and EN 15804

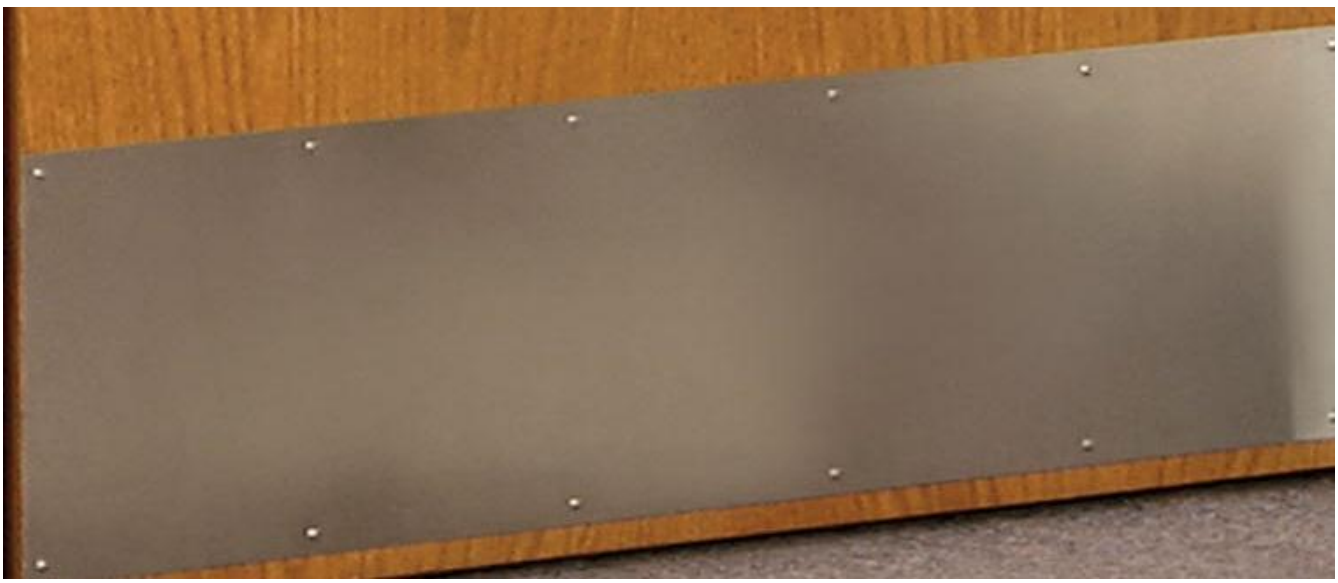
Owner of the Declaration	**ASSA ABLOY**
Programme holder	Institut Bauen und Umwelt e.V. (IBU)
Publisher	Institut Bauen und Umwelt e.V. (IBU)
Declaration number	EPD-ASA-20150134-IBA1-EN
Issue date	18.05.2015
Valid to	17.05.2020

Rockwood K1050 Kick Plate

ASSA ABLOY

Institut Bauen und Umwelt e.V.

www.bau-umwelt.com / https://epd-online.com



1. General Information

ASSA ABLOY

Programme holder

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

Declaration number

EPD-ASA-20150134-IBA1-EN

This Declaration is based on the Product Category Rules:

Locks and fittings , 07.2014
(PCR tested and approved by the independent expert committee (SVA))

Issue date

18.05.2015

Valid to

17.05.2020

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

Dr.-Ing. Burkhart Lehmann
(Managing Director IBU)

Rockwood K1050 Kick Plate

Owner of the Declaration

ASSA ABLOY
300 Main St.
Rockwood, PA 15557 USA

Declared product / Declared unit

The declaration represents One Rockwood K1050 (8 X 34 US32D) Kick Plate - Standard Duty, consisting of the following items:

- A 34" length of 18 gauge stainless steel coil with Polyethylene protective film attached.
- A 16" X 40" X 2 mil clear polyethylene sheeting used for packaging.
- Twelve # 6 X 5/8" stainless steel undercut oval head sheet metal screws.
- One 1 - Corrugated folding box. 48 1/2" X 20 7/8".
- 5 pieces of 20" long x 1/2" wide white plastic banding

Scope:

This declaration and its LCA study are relevant to Rockwood K1050 kick plates.

The primary manufacturing processes and packaging are completed in our factory for all Rockwood K1050 finish in Rockwood, Pennsylvania.

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.

Verification

The CEN Standard EN 15804 serves as the core PCR
Independent verification of the declaration according to ISO 14025
☐ internally ☒ externally

Dr. Wolfram Trinius
(Independent verifier appointed by SVA)

2. Product

2.1 Product description

Product name: Rockwood K1050 Kick Plate

Product characteristics:
Rockwood K1050 kick plates are installed on doors to protect the doors from damage and characterized by:
- Size (Typical Length - 2" less than door width X specified height on push side of door)
- Finish - US32D
- Options: Self Adhesive, Self Drilling TEK screws, beveled edges, countersunk holes, cut outs, Torx fasteners, UL Fire rated.

This EPD is applicable to following products: K1050, K1050F.

2.2 Application

The Rockwood kick plate K1050 (8" X 34") is intended to be used for private to commercial and public sectors for both light and heavy use areas:
- For interior and or exterior doors
- Designed to prevent damage to doors as well as for decorative applications.

2.3 Technical Data

The table presents the technical properties of the Rockwood K1050 Kick Plate:

Technical data

Parameter	Value
Available Finishes:	Satin Finish Stainless Steel (US32D)
Available Sizes (As	Up to 48" (1219 mm)

specified):	eight X 120" (3048 mm) Length
Options: (As specified)	Self Adhesive TEK screws (Self Drilling) Beveled Edges Countersunk holes Cut outs Torx fasteners UL fire rated

2.4 Placing on the market / Application rules

The standards that can be applied for K1050 kick plates are:
NFPA 80 STANDARDS - 2-4.5 Protection Plates:
Factory-installed protection plates shall be installed in accordance with the listing of the door.
Field-installed protection plates shall be labeled and installed in accordance with the door listing.
Exception: UL Labeling is not required where the top of the protection plate is not more than 16" (406 mm) above the bottom of the door.

2.5 Delivery status

The Rockwood K1050 kick plates and fasteners are delivered ready for installation. Each plate is individually packaged with fasteners attached and master packaged up to a maximum of 10 plates per carton. Package size is dependent on longest size of plate ordered.

2.6 Base materials / Ancillary materials

The average composition for K1050 is as following:

Component	Percentage in mass (%)
Stainless Steel	76.9
Paper	22.26
Plastics	1.65
Total	100.0

2.7 Manufacture

The Rockwood K1050 series kick plates utilize a 301 alloy stainless steel sheet or coil which are sheared to size, punched and packaged in our ISO14001-2014 facility located in Rockwood, Pennsylvania.

2.8 Environment and health during manufacturing

ASSA ABLOY is committed to integrating our sustainability efforts across the organization. Our priorities are to: reduce resource and energy consumption; reduce carbon emissions; improve water and waste management; improve health and safety performance in operations; improve sustainability performance within our supply chain and enhance the sustainability performance in ASSA ABLOY's supply of door opening solutions. Inspections, audits, and reviews are conducted periodically to ensure that applicable standards are met and environmental management program are evaluated.
Our Code of Conduct covers business ethics, workers' rights, human rights, environment and health & safety, consumer interests and community outreach. It provides the framework for ASSA ABLOY's daily operations.

• Employees within this manufacturing process are required to wear all standard PPE as well as protective leather arm leg and body protection.

2.9 Product processing/Installation

Rockwood K1050 kick plates are distributed through a network of distributors and are installed by general contractors, end users and home owners.

2.10 Packaging

K1050 kick plates are packed in cardboard packaging.

100% of paper documents are made from recycled material.

Material	Value (%)
Cardboard/paper	99.7
Plastics	0.03
Total	100.0

2.11 Condition of use

Under normal use, the Rockwood K1050 kick plate requires no routine maintenance other than regular cleaning. Cleaning requires a soft cloth and a mild soap/warm water mixture to remove any dust or dirt that may accumulate from general use.

2.12 Environment and health during use

There is no harmful emissive potential. No damage to health or impairment is expected under normal use corresponding to the intended use of the product.

2.13 Reference service life

Under normal use and with routine cleaning, the stainless steel kick plate is expected to last indefinite as there are no moving or wear parts associated with this product.

2.14 Extraordinary effects

Fire
K1050 kick plates are tested for usage in fire doors according to ANSI/UL 10B and 10C ratings.

Water
K1050 contains no substances that have any impact on water in case of a flood.

Mechanical destruction
K1050 has no properties which could be considered a danger to the environment and there would be no anticipated health or environmental issues arise as a result of mechanical destruction.

2.15 Re-use phase

The product is possible to re-use during the reference service life and be moved from one door to another. The majority, by weight, of stainless steel used can be recycled.

Manufacturing
Off cuts and scraps during the manufacturing process are reused for other products or directed to a recycling container.

Packaging
All materials incurred during installation are intended to be directed to a recycling unit by the installer.

End of life

All materials are intended to be directed to a recycling unit or returned to the factory for recycling as part of our end of life recycling process.

2.16 Disposal
No disposal is foreseen for the Rockwood K1050 kick plates nor for the corresponding packaging.

2.17 Further information
ASSA ABLOY
300 Main St.
Rockwood PA 15557

Tel: 800-458-2424
Web Address: www.rockwoodmfg.com

3. LCA: Calculation rules

3.1 Declared Unit
The declaration refers to the functional unit of 1 piece of Rockwood K1050 US32D Kick Plate as specified in Part B requirements on the EPD for PCR Locks and fittings: (mechanical & electromechanical locks & fittings)

Name	Value	Unit
Declared unit	1.693	1 piece of door bottom
Conversion factor to 1 kg	0.591	-

3.2 System boundary
Type of the EPD: cradle to gate - with options
The following life cycle phases were considered:

Production stage:
- A1 – Raw material extraction and processing
- A2 – Transport to the manufacturer and
- A3 – Manufacturing

Construction stage:
- A5 – Packaging waste processing

End-of-life stage:
- C2 – Transport to waste processing
- C4 – Disposal (landfill)

This includes provision of all materials, products and energy, packaging processing and its transport, as well as waste processing up to the end-of waste state or disposal of final residues.

- D - Declaration of all benefits or recycling potential from EOL and A5.

3.3 Estimates and assumptions
EoL:
In the End-of-Life phase, for all the materials which can be recycled, a recycling scenario with 100% collection rate was assumed.

3.4 Cut-off criteria
In the assessment, all available data from the production process are considered, i.e. all raw materials used, auxiliary materials (e.g. lubricants), thermal energy consumption and electric power consumption - including material and energy flows contributing less than 1% of mass or energy (if available). In case a specific flow contributing less than 1% in mass or energy is not available, worst case assumption proxies are selected to represent the respective environmental impacts.
Impacts relating to the production of machines and facilities required during production are out of the scope of this assessment.

3.5 Background data
For life cycle modeling of the considered products, the GaBi 6 Software System for Life Cycle Engineering, developed by PE INTERNATIONAL AG, is used /GaBi 6 2013/. The GaBi-database contains consistent and documented datasets which are documented in the online
GaBi-documentation /GaBi 6 2013D/.
To ensure comparability of results in the LCA, the basic data of GaBi database were used for energy, transportation and auxiliary materials.

3.6 Data quality
The requirements for data quality and background data correspond to the specifications of the /IBU PCR PART A/.
PE INTERNATIONAL performed a variety of tests and validations during the commission of the present study in order to ensure its quality of the present document and results. This obviously includes an extensive review of project-specific LCA models as well as the background data used.
The technological background of the collected data reflects the physical reality of the declared products. The datasets are complete and conform to the system boundaries and the criteria for the exclusion of inputs and outputs.
All relevant background datasets are taken from the GaBi 6 software database. The last revision of the used background data has taken place not longer than 10 years ago.

3.7 Period under review
The period under review is 2012/13 (12 month average).

3.8 Allocation
Regarding incineration, the software model for the waste incineration plant (WIP) is adapted according to the material composition and heating value of the combusted material. In this EPD the following specific life cycle inventories for the WIP are considered:
• Waste incineration of plastic
• Waste incineration of paper

Regarding the recycling material of metals, the metal parts in the EoL are declared as end-of-waste status. Thus, these materials are considered in module D. Specific information on allocation within the background data is given in the GaBi dataset documentation.

3.9 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.

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 if modules are not declared (MND).

Installation into the building (A5)

Name	Value	Unit
Output substances following waste treatment on site (Paper packaging)	0.485	kg

Reference service life

Name	Value	Unit
Reference service life	20	a

End of life (C1-C4)

Name	Value	Unit
Collected separately Plastic Parts, Stainless Steel	1.693	kg
Collected as mixed construction waste	0	kg
Reuse Plastic Parts	0.036	kg
Recycling Stainless Steel	1.657	kg
Landfilling	0	kg

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

Name	Value	Unit
Collected separately waste type (including packaging)	2.178	kg
Recycling Stainless Steel	76.09	%
Reuse Plastic Parts	1.65	%
Reuse Paper packaging (from A5)	22.26	%

5. LCA: Results

Results shown below were calculated using CML 2000 – Apr. 2013 Methodology

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

PRODUCT STAGE			CONSTRUCTION PROCESS STAGE		USE STAGE							END OF LIFE STAGE				BENEFITS AND LOADS BEYOND THE SYSTEM BOUNDARYS
Raw material supply	Transport	Manufacturing	Transport from the gate to the site	Assembly	Use	Maintenance	Repair	Replacement[1)]	Refurbishment[1)]	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	X	MND	MND	MND	MND	MND	MND	X	MND	X	X

RESULTS OF THE LCA - ENVIRONMENTAL IMPACT: One piece of One K1050 Kick Plate

Parameter	Parameter	Unit	A1 - A3	A4	A5	B2	C2	C4	D
GWP	Global warming potential	[kg CO_2-Eq.]	6.57E+00	1.17E-01	7.04E-01	-4.92E-02	5.18E-02	7.28E-02	-1.94E+00
ODP	Depletion potential of the stratospheric ozone layer	[kg CFC11-Eq.]	4.19E-10	5.59E-13	3.19E-12	1.79E-12	2.48E-13	2.19E-13	-1.76E-10
AP	Acidification potential of land and water	[kg SO_2-Eq.]	4.56E-02	5.34E-04	1.61E-04	1.26E-03	2.37E-04	1.85E-05	-1.53E-02
EP	Eutrophication potential	[kg $(PO_4)^{3-}$- Eq.]	2.96E-03	1.22E-04	2.77E-05	7.52E-04	5.41E-05	1.40E-06	-7.03E-04
POCP	Formation potential of tropospheric ozone photochemical oxidants	[kg Ethen Eq.]	2.60E-03	-1.72E-04	1.13E-05	2.51E-05	-7.65E-05	9.01E-07	-6.16E-04
ADPE	Abiotic depletion potential for non fossil resources	[kg Sb Eq.]	1.28E-03	4.40E-09	1.35E-08	2.72E-08	1.95E-09	4.81E-09	-5.66E-04
ADPF	Abiotic depletion potential for fossil resources	[MJ]	8.54E+01	1.61E+00	2.00E-01	1.54E+00	7.15E-01	3.08E-02	-2.45E+01

RESULTS OF THE LCA - RESOURCE USE: One piece of One K1050 Kick Plate

Parameter	Parameter	Unit	A1 - A3	A4	A5	B2	C2	C4	D
PERE	Renewable primary energy as energy carrier	[MJ]	2.00E+01	-	-	-	-	-	-
PERM	Renewable primary energy resources as material utilization	[MJ]	0.00E+00	-	-	-	-	-	-
PERT	Total use of renewable primary energy resources	[MJ]	2.00E+01	6.34E-02	1.85E-02	3.07E+00	2.82E-02	2.26E-03	-2.88E+00
PENRE	Non renewable primary energy as energy carrier	[MJ]	9.43E+01	-	-	-	-	-	-
PENRM	Non renewable primary energy as material utilization	[MJ]	0.00E+00	-	-	-	-	-	-
PENRT	Total use of non renewable primary energy resources	[MJ]	9.43E+01	1.61E+00	2.33E-01	1.63E+00	7.17E-01	3.42E-02	-2.78E+01
SM	Use of secondary material	[kg]	1.51E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RSF	Use of renewable secondary fuels	[MJ]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NRSF	Use of non renewable secondary fuels	[MJ]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	Use of net fresh water	[m^3]	4.71E-02	4.48E-05	2.04E-03	1.67E-03	1.99E-05	1.78E-04	-1.53E-02

RESULTS OF THE LCA – OUTPUT FLOWS AND WASTE CATEGORIES: One piece of One K1050 Kick Plate

Parameter	Parameter	Unit	A1 - A3	A4	A5	B2	C2	C4	D
HWD	Hazardous waste disposed	[kg]	6.36E-03	3.68E-06	1.61E-05	9.62E-05	1.63E-06	2.39E-06	-2.38E-03
NHWD	Non hazardous waste disposed	[kg]	1.61E+00	2.03E-04	1.88E-02	1.28E-02	9.02E-05	6.78E-03	-6.80E-01
RWD	Radioactive waste disposed	[kg]	3.55E-03	2.11E-06	1.35E-05	3.67E-05	9.39E-07	1.36E-06	-1.32E-03
CRU	Components for re-use	[kg]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-
MFR	Materials for recycling	[kg]	0.00E+00	0.00E+00	4.85E-01	0.00E+00	0.00E+00	0.00E+00	-
MER	Materials for energy recovery	[kg]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-
EEE	Exported electrical energy	[MJ]	0.00E+00	0.00E+00	9.01E-01	0.00E+00	0.00E+00	1.39E-01	-
EET	Exported thermal energy	[MJ]	0.00E+00	0.00E+00	2.54E+00	0.00E+00	0.00E+00	3.82E-01	-

6. LCA: Interpretation

This chapter contains an interpretation of the Life Cycle Impact Assessment categories. Stated percentages in the whole interpretation are related to the overall life cycle, excluding credits (module D).

Production phase (module A1-A3) contributes between 73 and 100% to total impact assessment. This stage is dominated by upstream emissions associated with steel- and secondary aluminum manufacturing processes.

The environmental impacts for the transport (A2) have a negligible impact within this stage.

In module D the benefits (negative values) and loads beyond the system boundary are declared for the recycling potential of the metals and for the credits from the incineration process (energy substitution) within A5.

7. Requisite evidence

Not applicable in this EPD.

8. References

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

General principles
for the EPD range of Institut Bauen und Umwelt e.V. (IBU), 2013-04
www.bau-umwelt.de

PCR Part A
Institut Bauen und Umwelt e.V., Berlin (pub.): Product Category Rules for Construction Products from the range of Environmental Product Declarations of Institut Bauen und Umwelt (IBU), Part A: Calculation Rules for the Life Cycle Assessment and Requirements on the Background Report. April 2013
www.bau-umwelt.de

IBU PCR Part B
IBU PCR Part B: PCR Guidance-Texts for Building-Related Products and Services. From the range of Environmental Product Declarations of Institute Construction and Environment e.V. (IBU). Part B: Requirements on the EPD for Locks and fittings.
www.bau-umwelt.com

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

EN 15804
EN 15804: 2012+A1:2014: Sustainability of construction works — Environmental Product Declarations — Core rules for the product category of construction products

GaBi 6 2013
GaBi 6 2013: Software-System and Database for Life Cycle Engineering. Copyright, TM. Stuttgart, Leinfelden-Echterdingen, 1992-2013.

GaBi 6 2013D
GaBi 6 2013D: Documentation of GaBi 6: Software-System and Database for Life Cycle Engineering. Copyright, TM. Stuttgart, Leinfelden-Echterdingen, 1992-2013. http://documentation.gabi-software.com/

ISO 14001
Environmental management systems - Requirements with guidance for use (ISO 14001:2004 + Cor. 1:2009)

UL10B: Standard for Fire Tests of Door Assemblies

NFPA 80: 2013
NFPA 80: 2013: Standard for Fire Doors and Other Opening Protectives.

9. Annex

Results shown below were calculated using TRACI Methodology.

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

PRODUCT STAGE			CONSTRUCTION PROCESS STAGE		USE STAGE							END OF LIFE STAGE				BENEFITS AND LOADS BEYOND THE SYSTEM BOUNDARYS
Raw material supply	Transport	Manufacturing	Transport from the gate to the site	Assembly	Use	Maintenance	Repair	Replacement[1)]	Refurbishment[1)]	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	MND	MND	MND	X	MND	MND	X	X	X	X

RESULTS OF THE LCA - ENVIRONMENTAL IMPACT: One piece of One K1050 Kick Plate

Parameter	Parameter	Unit	A1-3	A4	A5	B2	C2	C4	D
GWP	Global warming potential	[kg CO_2-Eq.]	6.57E+00	1.17E-01	7.04E-01	-4.92E-02	5.18E-02	7.28E-02	-1.94E+00
ODP	Depletion potential of the stratospheric ozone layer	[kg CFC11-Eq.]	4.45E-10	5.94E-13	3.40E-12	1.90E-12	2.64E-13	2.33E-13	-1.87E-10
AP	Acidification potential of land and water	[kg SO_2-Eq.]	4.36E-02	6.98E-04	1.95E-04	1.48E-03	3.10E-04	2.17E-05	-1.42E-02
EP	Eutrophication potential	[kg N-eq.]	2.46E-03	4.93E-05	1.11E-05	1.17E-03	2.19E-05	6.63E-07	-3.28E-04
Smog	Ground-level smog formation potential	[kg O_3-eq.]	4.47E-01	1.44E-02	4.47E-03	6.39E-03	6.38E-03	1.71E-04	-1.21E-01
Resources	Resources	[MJ]	6.49E+00	2.31E-01	2.33E-02	2.00E-01	1.03E-01	3.17E-03	-2.53E+00

RESULTS OF THE LCA - RESOURCE USE: One piece of One K1050 Kick Plate

Parameter	Parameter	Unit	A1-3	A4	A5	B2	C2	C4	D
PERE	Renewable primary energy as energy carrier	[MJ]	2.00E+01	-	-	-	-	-	-
PERM	Renewable primary energy resources as material utilization	[MJ]	0.00E+00	-	-	-	-	-	-
PERT	Total use of renewable primary energy resources	[MJ]	2.00E+01	6.34E-02	1.85E-02	3.07E+00	2.82E-02	2.26E-03	-2.88E+00
PENRE	Non renewable primary energy as energy carrier	[MJ]	9.43E+01	-	-	-	-	-	-
PENRM	Non renewable primary energy as material utilization	[MJ]	0.00E+00	-	-	-	-	-	-
PENRT	Total use of non renewable primary energy resources	[MJ]	9.43E+01	1.61E+00	2.33E-01	1.63E+00	7.17E-01	3.42E-02	-2.78E+01
SM	Use of secondary material	[kg]	1.51E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RSF	Use of renewable secondary fuels	[MJ]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NRSF	Use of non renewable secondary fuels	[MJ]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	Use of net fresh water	[m^3]	4.71E-02	4.48E-05	2.04E-03	1.67E-03	1.99E-05	1.78E-04	-1.53E-02

RESULTS OF THE LCA – OUTPUT FLOWS AND WASTE CATEGORIES: One piece of One K1050 Kick Plate

Parameter	Parameter	Unit	A1-3	A4	A5	B2	C2	C4	D
HWD	Hazardous waste disposed	[kg]	6.36E-03	3.68E-06	1.61E-05	9.62E-05	1.63E-06	2.39E-06	-2.38E-03
NHWD	Non hazardous waste disposed	[kg]	1.61E+00	2.03E-04	1.88E-02	1.28E-02	9.02E-05	6.78E-03	-6.80E-01
RWD	Radioactive waste disposed	[kg]	3.55E-03	2.11E-06	1.35E-05	3.67E-05	9.39E-07	1.36E-06	-1.32E-03
CRU	Components for re-use	[kg]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-
MFR	Materials for recycling	[kg]	0.00E+00	0.00E+00	4.85E-01	0.00E+00	0.00E+00	0.00E+00	-
MER	Materials for energy recovery	[kg]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-
EEE	Exported electrical energy	[MJ]	0.00E+00	0.00E+00	9.01E-01	0.00E+00	0.00E+00	1.39E-01	-
EET	Exported thermal energy	[MJ]	0.00E+00	0.00E+00	2.54E+00	0.00E+00	0.00E+00	3.82E-01	-

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