

ENVIRONMENTAL PRODUCT DECLARATION

as per /ISO 14025/ and /EN 15804/

Owner of the Declaration	ASSA ABLOY Security Solutions Wooden Doors & Windows Manufacturing LLC
Programme holder	Institut Bauen und Umwelt e.V. (IBU)
Publisher	Institut Bauen und Umwelt e.V. (IBU)
Declaration number	EPD-ASA-20190123-IBA1-EN
Issue date	06.08.2019
Valid to	05.08.2024

ASSA ABLOY Solid Chipboard Core Wooden Door Set ASSA ABLOY Opening Solutions Middle East

www.ibu-epd.com / <https://epd-online.com>



1. General Information

ASSA ABLOY Opening Solutions Middle East

Programme holder

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

Declaration number

EPD-ASA-20190123-IBA1-EN

This declaration is based on the product category rules:

IBU: PCR Windows and doors Version 1.7 (01.2019)
(PCR tested and approved by the independent expert committee)

Issue date

06.08.2019

Valid to

05.08.2024



Hans Peters
(President of Institut Bauen und Umwelt e.V.)



Dr. Alexander Röder
(Managing Director of IBU)

Solid Chipboard Core Wooden Door Set

Owner of the declaration

ASSA ABLOY Security Solutions Wooden Doors & Windows Manufacturing LLC
Jebel Ali Industrial Area 1,
P.O. Box 37765, Dubai, United Arab Emirates

Declared product / declared unit

This declaration represents one ASSA ABLOY Solid Chipboard Core Wooden Door Set.

Scope:

This declaration and the corresponding LCA study are relevant to ASSA ABLOY Solid Chipboard Core Wooden Door Set (Internal door).

The primary manufacturing processes are performed directly at the manufacturing facility (factory) in ASSA ABLOY Security Solutions Wooden Doors & Windows Manufacturing LLC in Dubai, UAE. The owner of the declaration shall be liable for the underlying information and evidence; IBU shall not be liable with respect to manufacturer information, life cycle assessment data and evidences.

Verification

The standard /EN 15804/ serves as the core PCR

Independent verification of the declaration and data according to /ISO 14025:2010/

internally externally



Wolfram Trinius
(Independent verifier appointed by SVR)

2. Product

2.1 Product description / Product definition

Product name: ASSA ABLOY Solid Chipboard Core Wooden Door Set

Product characteristic:

ASSA ABLOY Solid Chipboard Core Wooden Door Set is dedicated to internal applications where green factors, strength, sustainability and aesthetics all play a role. It is a complete door solution, designed to offer numerous applications.

The door is designed to be easily installed. The door includes four ball bearing hinges, one mortice sash lock, one double cylinder, lever handle pair with escutcheon for single leaf solution. It is possible to equip the doors in different lock types, door closer, access control, door viewer, kick plate or drop-down seal for acoustic parameters. The door can be produced from FSC sourced wood and responds to the latest /ISO 9001:2015/ standard.

This door is a non-fire rated door that does not comply with any particular European standards.

2.2 Application

ASSA ABLOY Solid Chipboard Core Wooden Door Set can be used internally. Common applications are commercial and residential buildings or villas.

2.3 Technical Data

The table presents the technical properties of the Solid Chipboard Core Wooden Door Set:

Name	Value	Unit
Heat transfer coefficient of the entire door or gate system	NR	W/(m ² K)
Thickness	45	mm
Width	1100	mm
Height	2200	mm
Possible opening types	Single swing, double swing and sliding	
Moisture content	8-12	(%)

2.4 Delivery status

ASSA ABLOY Solid Chipboard Core Wooden Door Set are placed horizontally and banded to pallet for shipment. Minimum of 1 and max 10 doors per pallet.

2.5 Base materials / Ancillary materials

The composition of the ASSA ABLOY Solid Chipboard Core Wooden Door Set in percentage (%) of total mass per unit is, as follows:

Component	Percentage in mass (%)
Plastics	7,399
Wood	92,601
Total	100,000

2.6 Manufacture

The primary manufacturing processes and final manufacturing processes are made directly at the factory of ASSA ABLOY Security Solutions Wooden Doors & Windows Manufacturing LLC.

The factory of Jebel Ali Industrial Area 1, Dubai has a Quality Management system certified according to ISO 9001:2008.

2.7 Environment and health during manufacturing

ASSA ABLOY is committed to producing and distributing door opening solutions with minimal environmental impact, where health & safety is the primary focus for all employees and associates.

- Environmental operations, GHG, energy, water, waste, VOC, surface treatment and H&S are being routinely monitored. Inspections, audits, and reviews are conducted periodically to ensure that applicable standards are met, and the effectiveness of the Environmental Management program is evaluated.
- Code of Conduct covers human rights, labor practices and decent work. The Management of ASSA ABLOY is aware of their environmental roles and responsibilities, providing appropriate training, supporting accountability and recognizing outstanding performance.
- The factory of Jebel Ali Industrial Area 1, Dubai, has an Environmental Management system certified according to ISO 14001:2004 and an Occupational Health and Safety system certified according to /OHSAS 18001:2007/.
- Water and soil contamination does not occur, and all production related waste is processed internally in the appropriate manner.
- Any waste metals during machining are separated and recycled.

2.8 Product processing/Installation

ASSA ABLOY Solid Chipboard Core Wooden are distributed through and installed by trained installation technicians, such as locksmiths, carpenters etc. adhering to local/national standards and requirements.

2.9 Packaging

ASSA ABLOY Solid Chipboard Core Wooden Door Set are placed horizontally on wooden pallets and banded to pallet for shipment. Minimum of 1 and max 10 doors per pallet. Door leaves are wrapped with foil in order to protect them during the transport and the assembly.

Material	Value (%)
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Paper	68,966
Plastic	31,034
Total	100,00

2.10 Condition of use

Doors are delivered with final painting (RAL Colours, PU Paint, HPL).
Repairs or replacement are usually not necessary. Some cleaning efforts need to be taken into consideration.

2.11 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.

2.12 Reference service life

Properly installed and maintained solid chipboard wooden doors often last 20 years or longer. The location and intended use of the wooden door assembly, and the environment to which it is exposed will determine the wooden door assembly life expectancy (according to /ISO 15686-1, -2, -7 and -8:2004/).

2.13 Extraordinary effects

Fire

ASSA ABLOY Solid Chipboard Core Wooden Door Set is a non-fire rated door that does not comply with any particular European standards.

Water

The product does not contain any substances that could be released and have an additional environmental impact on water in case of flood.

Mechanical destruction

No danger to the environment can be anticipated during mechanical destruction of the products.

2.14 Re-use stage

The product can be re-used during the reference service life and it can be moved from one application to another.

2.15 Disposal

The product can be mechanically disassembled to separate the different materials. The majority, by weight of components, is wood. The door can be incinerated and can be treated locally. No disposal is foreseen for the product nor for the corresponding packaging.

/EWC/ 17 02 03 plastic

/EWC 17 02 01 wood

/EWC/ 15 01 01 paper and cardboard packaging

/EWC/ 15 01 02 plastic packaging

2.16 Further information

ASSA ABLOY Security Solutions Wooden Doors & Windows Manufacturing LLC
Jebel Ali Industrial Area 1, Dubai
P.O. Box 37765, United Arab Emirates
www.assaabloyopeningsolutions.ae

3. LCA: Calculation rules

3.1 Declared Unit

This declaration represents one ASSA ABLOY Solid Chipboard Core Wooden Door Set.

The door includes four ball bearing hinges, one mortice sash lock, one double cylinder, lever handle pair with escutcheon for single leaf solution.

Declared unit

Name	Value	Unit
Mass (without packaging)	72,343	kg
Mass packaging (paper)	0,200	kg
Mass packaging (plastic)	0,090	
Conversion factor to 1 kg	0,013823037	-
Declared unit for hardware systems	1	Piece

3.2 System boundary

Type of the EPD: cradle to gate - with options

The following life cycle stages were considered:

Production stage:

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

Construction stage:

- A4 - Transport from the gate to the site
- A5 – Packaging waste processing

Use stage related to the operation of the building includes:

- B6 – Operational energy use (not included as no power needed)

End-of-life stage (EoL):

- C2 – Transport to waste processing,
- C3 – Waste processing for recycling and
- C4 – Disposal (landfill, waste for incineration).

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.

Module D:

- Declaration of all benefits and loads.

3.3 Estimates and assumptions

Transportation:

Data on mode of transport and distances, as reported by suppliers were used for those materials and parts contributing more than 2 % of total product mass. In case of unknown transport distances for parts and materials, contributing less than 2 % to the total product mass, transport by road over an average distance of 500 km was assumed.

Use stage:

For the use stage, it is assumed that the door is used within the United Arab Emirates (UAE).

EoL:

In the End-of-Life stage, all product materials and packaging materials are assumed to be energetically recovered (waste incineration). A scenario with 100 % collection rate was assumed. The country where EoL takes place is UAE. Furthermore, a transport distance by truck of 100 km has been assumed in the model.

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), and electric power consumption - including material and energy flows contributing less than 1 % of mass or energy (if available). In case any 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 8.7.0.18 Software System for Life Cycle Engineering, developed by thinkstep AG, was used /GaBi 8 2019/. The GaBi-database contains consistent and documented datasets which are documented in the online GaBi-documentation /GaBi database SP25:2016/.

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/.

thinkstep performed a variety of tests and checks during the entire project to ensure high quality of the completed project. 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 database SP25:2016/.

3.7 Period under review

The period under review is 2017/18 (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 for:

Waste incineration of plastic
 Waste incineration of wood
 Waste incineration of plastic (packaging)
 Waste incineration of paper (packaging)

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. /GaBi database SP25:2016/serves as background database for the calculation.

4. LCA: Scenarios and additional technical information

The following technical scenario information is required 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).

Transport to the building site (A4)

Name	Value	Unit
Liters of fuel	39,4	l/100km
Transport distance	100	km
Capacity utilisation (including empty runs)	85	%

Installation into the building (A5)

Name	Value	Unit
Output substances following waste treatment on site (paper packaging)	0,200	kg
Output substances following waste treatment on site (plastic packaging)	0,090	kg

Reference service life

Name	Value	Unit
Reference service life (according to ISO 15686-1, -2, -7 and -8)	20	a

End of life (C1-C4)

Name	Value	Unit
Collected separately (Plastics)	5,353	kg
Incineration of wood	66,990	kg
Incineration of plastic parts	5,353	kg
Total Recovery	100	%
Transport Distance	100	km

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

Name	Value	Unit
Collected separately waste type (including packaging)	72,633	kg
Incineration of wood	92,231	%
Incineration of plastic	7,494	%
Incineration of packaging (paper and plastic) (from A5)	0,399	%

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 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	MND	MND	MND	X	MND	MND	X	X	X	X	

RESULTS OF THE LCA - ENVIRONMENTAL IMPACT: 1 ASSA ABLOY Solid Chipboard Core Wooden Door Set

Parameter	Parameter	Unit	A1-A3	A4	A5	B6	C2	C3	C4	D
GWP	Global warming potential	[kg CO ₂ -Eq.]	-1,10E+02	3,45E-01	5,08E-01	0,00E+00	3,44E-01	1,06E+02	8,77E+00	-4,60E+01
ODP	Depletion potential of the stratospheric ozone layer	[kg CFC11-Eq.]	7,95E-05	1,65E-12	1,97E-12	0,00E+00	1,65E-12	4,20E-10	2,64E-11	-1,44E-08
AP	Acidification potential of land and water	[kg SO ₂ -Eq.]	1,34E-01	1,58E-03	1,22E-04	0,00E+00	1,57E-03	1,48E-02	2,23E-03	-1,23E-01
EP	Eutrophication potential	[kg (PO ₄) ³⁻ -Eq.]	1,70E-02	3,61E-04	1,56E-05	0,00E+00	3,60E-04	2,28E-03	1,69E-04	-8,68E-03
POCP	Formation potential of tropospheric ozone photochemical oxidants	[kg ethene-Eq.]	3,32E-02	-5,10E-04	7,36E-06	0,00E+00	-5,08E-04	1,20E-03	1,09E-04	-1,06E-02
ADPE	Abiotic depletion potential for non-fossil resources	[kg Sb-Eq.]	7,68E-05	1,30E-08	2,00E-08	0,00E+00	1,30E-08	1,41E-06	5,79E-07	-3,68E-06
ADPF	Abiotic depletion potential for fossil resources	[MJ]	7,07E+02	4,77E+00	1,74E-01	0,00E+00	4,75E+00	2,33E+01	3,71E+00	-7,66E+02

RESULTS OF THE LCA - RESOURCE USE: 1 ASSA ABLOY Solid Chipboard Core Wooden Door Set

Parameter	Parameter	Unit	A1-A3	A4	A5	B6	C2	C3	C4	D
PERE	Renewable primary energy as energy carrier	[MJ]	1,25E+03	-	-	-	-	-	-	-
PERM	Renewable primary energy resources as material utilization	[MJ]	0,00E+00	-	-	-	-	-	-	-
PERT	Total use of renewable primary energy resources	[MJ]	1,25E+03	1,88E-01	1,44E-02	0,00E+00	1,87E-01	2,31E+00	2,72E-01	-6,84E+01
PENRE	Non-renewable primary energy as energy carrier	[MJ]	7,44E+02	-	-	-	-	-	-	-
PENRM	Non-renewable primary energy as material utilization	[MJ]	0,00E+00	-	-	-	-	-	-	-
PENRT	Total use of non-renewable primary energy resources	[MJ]	7,44E+02	4,78E+00	1,99E-01	0,00E+00	4,76E+00	2,76E+01	4,12E+00	-9,01E+02
SM	Use of secondary material	[kg]	6,28E-02	0,00E+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	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	0,00E+00
FW	Use of net fresh water	[m ³]	1,57E-01	1,33E-04	1,37E-03	0,00E+00	1,32E-04	2,74E-01	2,14E-02	-1,52E-01

RESULTS OF THE LCA – OUTPUT FLOWS AND WASTE CATEGORIES:

1 ASSA ABLOY Solid Chipboard Core Wooden Door Set

Parameter	Parameter	Unit	A1-A3	A4	A5	B6	C2	C3	C4	D
HWD	Hazardous waste disposed	[kg]	3,73E-02	1,09E-05	1,38E-05	0,00E+00	1,08E-05	1,94E-03	2,88E-04	-5,18E-02
NHWD	Non-hazardous waste disposed	[kg]	5,24E-01	6,01E-04	2,81E-02	0,00E+00	5,99E-04	1,50E+00	8,17E-01	2,92E-01
RWD	Radioactive waste disposed	[kg]	1,47E-02	6,26E-06	9,65E-06	0,00E+00	6,24E-06	1,72E-03	1,64E-04	-5,39E-02
CRU	Components for re-use	[kg]	0,00E+00	0,00E+00	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	2,00E-01	0,00E+00	0,00E+00	6,52E+01	0,00E+00	1,80E+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	0,00E+00	0,00E+00
EEE	Exported electrical energy	[MJ]	0,00E+00	0,00E+00	7,88E-01	0,00E+00	0,00E+00	1,23E+02	1,68E+01	1,22E+01
EET	Exported thermal energy	[MJ]	0,00E+00	0,00E+00	2,19E+00	0,00E+00	0,00E+00	3,47E+02	4,60E+01	3,37E+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).

The production stage (modules A1-A3) contributes between 99,9 % and 84 % to the overall results for all the environmental impact assessment categories hereby considered (except GWP). The global warming potential (GWP) of the wood door shows a negative value within the production phase (module A1- A3). These negative value results from the use of wood as

raw material, because wood sequesters biogenic carbon during the growth of the tree.

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

In the end-of-life stage, there are loads and benefits (module D, negative values) considered. The benefits are considered beyond the system boundaries and are declared for the credits from the incineration process (energy substitution). Wood is assumed to be burned with energy generation that will replace production of electricity and thermal energy respectively.

7. Requisite evidence

Not applicable in this EPD.

8. References

/EN 15804:2014-07/

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

/GaBi 8 2019/

Software-System and Database for Life Cycle Engineering. Copyright, TM. Stuttgart, thinkstep AG, Echterdingen, 1992-2019

/GaBi database SP25:2016/

Documentation of GaBi Database for Life Cycle Engineering. Copyright, TM. Stuttgart, thinkstep AG, Echterdingen, 1992-2016. <http://documentation.gabi-software.com/>

IBU 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. March 2018 www.ibu-epd.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 Windows and doors Version 1.7 (01.2019) www.ibu-epd.com

/ISO 14025/

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

/ISO 9001:2015/

Quality management systems - -- Requirements with guidance for us

/ISO 14001:2015/

Environmental management systems -- Requirements with guidance for use

/ISO 15686-1, -2, -7 and -8:2004/

Buildings and constructed assets. Service life planning. General principles and framework

/OHSAS 18001:2007/

Occupational Health and Safety Assessment Series

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 BOUNDARIES
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: 1 ASSA ABLOY Solid Chipboard Core Wooden Door Set

Parameter	Parameter	Unit	A1 - A3	A4	A5	B6	C2	C3	C4	D
GWP	Global warming potential	[kg CO ₂ -Eq.]	-6,38E+01	3,45E-01	5,08E-01	0,00E+00	3,44E-01	1,06E+02	3,77E+00	-4,60E+01
ODP	Depletion potential of the stratospheric ozone layer	[kg CFC11-Eq.]	8,45E-05	1,76E-12	2,10E-12	0,00E+00	1,75E-12	4,46E-10	2,81E-11	-1,53E-08
AP	Acidification potential of land and water	[kg SO ₂ -Eq.]	1,45E-01	2,07E-03	1,45E-04	0,00E+00	2,06E-03	1,70E-02	2,62E-03	-1,20E-01
EP	Eutrophication potential	[kg N-eq.]	1,16E-01	1,46E-04	6,56E-06	0,00E+00	1,45E-04	9,31E-04	7,98E-05	-5,71E-03
Smog	Ground-level smog formation potential	[kg O ₃ -eq.]	2,75E+00	4,25E-02	2,35E-03	0,00E+00	4,24E-02	3,23E-01	2,06E-02	-1,44E+00
Resources	Resources – resources fossil	[MJ]	9,41E+01	6,86E-01	1,91E-02	0,00E+00	6,83E-01	2,70E+00	3,82E-01	-9,61E+01

RESULTS OF THE LCA - RESOURCE USE: 1 ASSA ABLOY Solid Chipboard Core Wooden Door Set

Parameter	Parameter	Unit	A1 - A3	A4	A5	B6	C2	C3	C4	D
PERE	Renewable primary energy as energy carrier	[MJ]	1,25E+03	-	-	-	-	-	-	-
PERM	Renewable primary energy resources as material utilization	[MJ]	0,00E+00	-	-	-	-	-	-	-
PERT	Total use of renewable primary energy resources	[MJ]	1,25E+03	1,88E-01	1,44E-02	0,00E+00	1,87E-01	2,31E+00	2,72E-01	-6,84E+01
PENRE	Non-renewable primary energy as energy carrier	[MJ]	7,44E+02	-	-	-	-	-	-	-
PENRM	Non-renewable primary energy as material utilization	[MJ]	0,00E+00	-	-	-	-	-	-	-
PENRT	Total use of non-renewable primary energy resources	[MJ]	7,44E+02	4,78E+00	1,99E-01	0,00E+00	4,76E+00	2,76E+01	4E+00	-9,01E+02
SM	Use of secondary material	[kg]	6,28E-02	0,00E+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	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	0,00E+00
FW	Use of net fresh water	[m ³]	1,57E-01	1,33E-04	1,37E-03	0,00E+00	1,32E-04	2,74E-01	2,14E-02	-1,52E-01

RESULTS OF THE LCA – OUTPUT FLOWS AND WASTE CATEGORIES: 1 ASSA ABLOY Solid Chipboard Core Wooden Door Set

Parameter	Parameter	Unit	A1 - A3	A4	A5	B6	C2	C3	C4	D
HWD	Hazardous waste disposed	[kg]	3,73E-02	1,09E-05	1,38E-05	0,00E+00	1,08E-05	1,94E-03	2,88E-04	-5,18E-02
NHWD	Non-hazardous waste disposed	[kg]	5,24E-01	6,01E-04	2,81E-02	0,00E+00	5,99E-04	1,50E+00	8,17E-01	2,92E-01
RWD	Radioactive waste disposed	[kg]	1,47E-02	6,26E-06	9,65E-06	0,00E+00	6,24E-06	1,72E-03	1,64E-04	-5,39E-02
CRU	Components for re-use	[kg]	0,00E+00	0,00E+00	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	2,00E-01	0,00E+00	0,00E+00	6,52E+01	0,00E+00	1,80E+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	0,00E+00	0,00E+00
EEE	Exported electrical energy	[MJ]	0,00E+00	0,00E+00	7,88E-01	0,00E+00	0,00E+00	1,23E+02	1,68E+01	1,22E+01

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EET	Exported thermal energy	[MJ]	0,00E+00	0,00E+00	2,19E+00	0,00E+00	0,00E+00	3,47E+02	4,60E+01	3,37E+01
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