ENVIRONMENTAL PRODUCT DECLARATION

SARGENT 7900 SERIES MORTISE LOCK



The SARGENT 7900 series Mortise Lock, is an ANSI/BHMA A156.13 Series 1000 Grade 1 mechanical mortise lock. It has a reversible stainless steel latch, independent non-handed stainless steel deadlatch.

SARGENT ASSA ABLOY

ASSA ABLOY is committed to providing products and services that are environmentally sound throughout the entire production process and the product lifecycle. Our unconditional aim is to make sustainability a central part of our business philosophy and culture, but even more important is the job of integrating sustainability into our business strategy. The employment of EPDs will help architects, designers and LEED-APs select environmentally preferable door openings. The SARGENT 7900 Series Mortise Lock EPD provides detailed requirements with which to evaluate the environmental and human health impacts related to producing our door openings. ASSA ABLOY will continue our efforts to protect the environment and health of our customers/end users and will utilize the EPD as one means to document those efforts.



ENVIRONMENTAL PRODUCT DECLARATION



ASSA ABLOY

SARGENT Manufacturing Company 7900 Series Mortise Lock

According to EN 15804 and ISO 14025 Dual Recognition by UL Environment and Institut Bauen und Umwelt e.V.

This declaration is an environmental product declaration (EPD) in accordance with ISO 14025. EPDs rely on Life Cycle Assessment (LCA) to provide information on a number of environmental impacts of products over their life cycle. <u>Exclusions</u>: EPDs do not indicate that any environmental or social performance benchmarks are met, and there may be impacts that they do not encompass. LCAs do not typically address the site-specific environmental impacts of raw material extraction, nor are they meant to assess human health toxicity. EPDs can complement but cannot replace tools and certifications that are designed to address these impacts and/or set performance thresholds – e.g. Type 1 certifications, health assessments and declarations, environmental impact assessments, etc. <u>Accuracy of Results</u>: EPDs regularly rely on estimations of impacts, and the level of accuracy in estimation of effect differs for any particular product line and reported impact. <u>Comparability</u>: EPDs are not comparative assertions and are either not comparable or have limited comparability when they cover different life cycle stages, are based on different product category rules or are missing relevant environmental impacts. EPDs from different programs may not be comparable.



PROGRAM OPERATOR	UL Environment
DECLARATION HOLDER	SARGENT Manufacturing Company an ASSA ABLOY Group Company
ULE DECLARATION NUMBER	4786545067.132.1
IBU DECLRATION NUMBER	EPD-ASA-20150136-IBA1-EN
DECLARED PRODUCT	7900 Series Mortise Lock
REFERENCE PCR	IBU: PCR Locks and fittings (mechanical & electromechanical locks & fittings), 07-2014

DATE OF ISSUE	May 18, 2015
PERIOD OF VALIDITY	5 years

CONTENTS OF THE DECLARATION	General information Product / Product description LCA calculation rules LCA scenarios and further technic LCA results References	al information
The PCR review was conduc	ted by:	IBU – Institut Bauen und Umwelt e.V.
		PCR was approved by the Independent Expert Committee (SVA)
The CEN Norm EN 15804 serves as the core PCR. This declaration was independently verified in accordance with ISO 14025 by Underwriters Laboratories		WE
		Wade Stout
This life cycle assessment was independently verified in accordance with EN 15804 and the reference PCR by:		IBU – Institut Bauen und Umwelt e.V.



Environment



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General Information

SARGENT Manufacturing Company

Programme holder

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

Declaration number EPD-ASA-20150136-IBA1-EN

7900 Mortise Lock

Owner of the Declaration SARGENT Manufacturing Company 100 Sargent Drive, New Haven, CT 06511 USA

Declared product / Declared unit

The declaration represents 1 mortise lock of the following types:

- 7900 Mechanical lock

Scope:

inclusive of lock body, latches, levers, roses, strikes and all mounting hardware.

This EPD is based on the full lifecycle of 1 SARGENT

7900 series Mortise Lock. Data was collected from the lock case manufacturer in New Haven, Connecticut

(US). 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,

The CEN Standard EN 15804 serves as the core PCR Independent verification of the declaration and data according to ISO 14025

X

externally

life cycle assessment data and evidences.

internally

(Independent verifier appointed by SVA)

This Declaration is based on the Product Category Rules:

IBU: PCR Locks and fittings (mechanical & electromechanical locks & fittings), 07-2014 (PCR tested and approved by the independent expert committee (SVA))

Issue date

18.05.2015

Valid to

17.05.2020

Nermanjes

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

INMAN

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

2. Product

2.1 Product description

The SARGENT 7900 series Mortise Lock, is an ANSI/BHMA A156.13 Series 1000 Grade 1 mechanical mortise lock. It has a reversible stainless steel latch, independent non-handed stainless steel deadlatch.

The 7900 Mortise Lock is available with 17 different mechanical locking functions, optional deadbolt and multiple lever options

ANSI/BHMA A156.13 Series 1000 Grade 1 Certified
 Meets A117.1 Accessibility Code

2.2 Application

The locks are designed for single or double leaf doors with mullions. The locks are typically installed in commercial buildings, such as

- Commercial campuses
- Colleges

Dr Wolfram Trinius

Verification

- Detention centers
- Dormitories
- Hospitals
- WarehousesPsychiatric wards

2.3 Technical Data

The table presents the technical properties of SARGENT 7900 series Mortise Lock:

Technical data

Item	Value	
Backset	2-3⁄4" (70mm)	
Door Thickness	1-3⁄4" (44mm) thick standard	
Bevel	Front adjustable at any angle from flat to bevelled 1/8" (3mm) in 2" (51mm)	
Door prep	ANSI/BHMA A156.115 or A156.115W modified per template	



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Handing	field reversible	
Koving	Can be masterkeyed or grand	
Keying	masterkeyed.	

2.4 Placing on the market / Application rules

The products are subject to UL marking. Relevant norms are: ANSI/BHMA A156.13 American Standard for Mortise locks.

2.5 Delivery status

Delivered as a complete unit, inclusive of lockbody, trim, strike and fasteners or as separate lock case. Delivered in a box size 9" x 5.5" x 4.375" (229 x 140 x 111 mm).

2.6 Base materials / Ancillary materials

The average composition for SARGENT Mortise lock is as following:

Component	Percentage in mass (%)
Brass	34.92
Plastic parts	0.2
Stainless Steel	10.32
Steel	49.6
Zinc	1.55
Others	3.41
Total	100.0

2.7 Manufacture

Products are manufactured and assembled in the United States and are supported by tier-1 supplier in Mexico. The components come from processes such as stamped steel, zinc and steel casting.

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 Environment Management Systems 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.

Sargent Manufacturing is in the process of certification of both ISO 9001:2008 and ISO 14001:2004, expected certification date 1/2015
Any waste metals during machining are separated and recycled. The waste water is delivered to waste treatment plant.

2.9 Product processing/Installation

SARGENT locks are distributed through, and installed by trained technicians, such as locksmiths or security technicians. Preparation of doors and frames are conducted at the door manufacturer's production site.

2.10 Packaging

All packaging is fully recyclable. The packaging material is composed by cardboard (app. 70%) and plastic foil (app. 30%).

Material	Value (%)
Cardboard/paper	95.78
Plastics	4.22
Total	100.0

2.11 Condition of use

Locks require no maintenance.

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

The reference service life of 30 years is based on a typical installation of a SARGENT 7900 Mortise lock as a security lock operated when the facilities are to be closed or opened. If operations per day exceeds that typical wear the locks are exposed to the life time is limited to 1,000,000 cycles in accordance with ANSI/BHMA A156.13

Influences on ageing when applied in accordance with the rules of technology.

2.14 Extraordinary effects Fire

Suitable for use in fire and smoke doors (listed by Underwriters Laboratories).

Water

Contain no substances that have any impact on water in case of flood.

Mechanical destruction

No danger to the environment can be anticipated during 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 components, are steel, iron and zinc which can be recycled. The plastic components can be used for energy recovery in an incineration process. The lock can either be sent back to SARGENT for recycling or to a professional recycling service provider.

2.16 Disposal

The product can be mechanically disassembled to separate the different materials. 96.82% of the materials used are recyclable. The rest is disposed as a construction waste for landfill.

2.17 Further information

SARGENT Manufacturing Company 100 Sargent Drive, New Haven, CT 06511 USA Tel 800-727-5477 www.sargentlock.com



3. LCA: Calculation rules

3.1 Declared Unit

The declaration refers to the functional unit of 1 piece of single point lock 1 SARGENT 7900 series as specified in Part B requirements on the EPD for PCR Locks and fittings: (mechanical & electromechanical locks & fittings)

Declared unit

Name	Value	Unit
		piece of
Declared unit	1	single
		point lock
Mass	2.64	kg
Conversion factor to 1 kg	0.379	-

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:

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

The use stage:

• B2 - Maintenance (cleaning of the locks)

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 <u>EoL</u>:

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 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 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 2013/14 (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 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)	0.183	kg
Output substances following waste treatment on site (plastic packaging)	0.008	kg

Maintenance (B2)

Name	Value	Unit
Other resources – detergents	0.1	kg/a
Water for cleaning	0.1	kg/a

Reference service life

Name	Value	Unit
Reference service life	30	а

End of life (C1-C4)

Name	Value	Unit
Collected separately Brass, Plastic parts, Stainless Steel, Steel, Zinc	2.551	kg
Collected as mixed construction waste – construction waste for landfilling	0.09	kg
Reuse Plastic parts	0.005	kg
Recycling Brass, Stainless Steel, Steel, Zinc	2.546	kg
Landfilling - Construction waste for landfilling	0.09	kg

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

Name	Value	Unit				
Collected separately waste type Door closer (including packaging)	2.832	kg				
Recycling Brass	32.57	%				
Reuse Plastic parts	0.19	%				
Recycling StainlessSteel	9.63	%				
Recycling Steel	46.25	%				
Recycling Zinc	1.44	%				
Reuse Plastic packaging (from A5)	0.28	%				
Reuse Paper packaging (from A5)	6.46	%				
Loss Construction waste for landfilling (no recycling potential)	3.18	%				



5. LCA: Results

Results shown below were calculated using CML 2001 – Apr. 2013 Methodology.

DESU	RIP	TION O	F THE	SYST	ЕМ	BOUN		RY (X = IN	CLUD	ED IN	LCA; I	MND =	MOD		OT DE	CL/	ARED)	
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A1	A2	A3	A4	A5	B 1	_		B3	B4	B5	B6	B7	C1	C2	C3	C4		D	
Х	Х	Х	Х	Х	MN			ЛND	MND	MND	MND	MND	MND	Х	MND	Х		Х	
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ODF	2		on potent oheric ozo			Eq		1.	66E-09	3.87E-	13 ⁻	1.23E-12	6.81E-1	1 3	.22E-13	1.54E-	13	-1.01E-10	
AP	A	Acidification	n potentia water	al of land	and	[kg SO	₂ -Eq.]	4.	21E-02	3.70E-	04 6	6.31E-05	4.83E-0	2 3	.08E-04	1.25E-	05	1.08E-03	
EP		-	hication p			[kg (PO4) ³⁻ - Eq.	.] 2.	80E-03	8.45E-	05 ·	1.06E-05	2.88E-0	2 7	.04E-05	9.74E-	07	6.03E-05	
POC	P	ormation p ozone pho				[kg Ethe	[kg Ethen Eq.]		64E-03	-1.19E-	04 4	4.39E-06	9.53E-0	4 -9	9.94E-05	6.19E-07		1.26E-04	
ADPI	E	Abiotic depletion potential for non fossil resources			[kg Sb	Eq.]	1.	76E-03	3.05E-	09 :	5.72E-09	1.00E-0	6 2	.54E-09	3.18E-09		-6.36E-04		
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RESU	JLTS	OF TH	IE LCA	A - RE	SOU		E USE: One piece of 7900 Series Mortise Lock												
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ASSA ABLOY

EEE	Exported electrical energy	[MJ]	0.00E+00	0.00E+00	3.58E-01	0.00E+00	0.00E+00	9.42E-02	-
EET	Exported thermal energy	[MJ]	0.00E+00	0.00E+00	1.01E+00	0.00E+00	0.00E+00	2.58E-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 phase (modules A1-A3) contributes between 43% and 99% to the overall results for all the environmental impact assessment categories hereby considered, except for the eutrophication potential (EP), for which the contribution from the production phase accounts for app. 8%.

Within the production phase, the main contribution for all the impact categories is the production of steel, with app. 80%, mainly due to the energy consumption on this process. Steel and brass account in total with app. 85% to the overall mass of the product, therefore, the impacts are in line with the mass composition of the product. The environmental impacts for the transport (A2) have a negligible impact within this stage.

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

IBU PCR Part A

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. 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

ANSI/A117.1

ANSI/A117.1: Accessible and Usable Buildings and Facilities

ANSI/BHMA A156.13 ANSI/BHMA A156.13: Mortise Locks

Relatively high impact on EP (%90) during the

maintenance phase (module B2) is a result of

generated waste water during maintenance of the

product. Eutrophication is the enrichment of nutrients in a certain place and it can be aquatic or terrestrial.

Waste water contributes to eutrophication therefore, as

expected, it is mainly related with the maintenance of

In the end-of-life phase, there are loads and benefits

in the production process is higher than the value of

scrap output from the recycling process. Therefore, there is an environmental burden instead of credit in

beyond the system boundaries and are declared for

from the incineration process (energy substitution).

the End-of-Life. The benefits and loads are considered

the recycling potential of the metals and for the credits

(module D, negative values) considered. For the components containing brass, the value of scrap input

ISO 14001

the product (B2).

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

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/



UL and ULc Standards

ULC Standards develops and publishes standards and specifications for products having a bearing on fire, life safety and security, crime prevention, energy efficiency, environmental safety, security of assets and facilities, live working and workplace safety and other areas. ULC Standards is accredited by the Standards Council of Canada as a consensus based Standards Development Organization under the National Standards System of Canada.

9. Annex

Results shown below were calculated using TRACI Methodology.

	Results shown below were calculated using TRACI Methodology. DESCRIPTION OF THE SYSTEM BOUNDARY (X = INCLUDED IN LCA; MND = MODULE NOT DECLARED)																			
DESC				3131			DANT	(^ =		_00			, r, r						1	EFITS AND
PROE	PRODUCT STAGE ON PROCESS STAGE					USE STAGE									END OF LIFE STAGE				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	asu	De-construction	demolition Transmort	IIalispuit	Waste processing	Disposal	Reuse-	Recovery- Recycling- potential
A1	A2		A4	A5	B1	B2	_	B4		B5	B6	_	B7	-	C1 C2		C3	C4		D
Х	Х	Х	Х	Х	MND	Х	MND	MN		IND	MND		1ND	MN		X	MND	Х		Х
RESU	JLTS	OF TH	IE LCA	\ - EN\	/IRONI	MEN	NTAL IN	/IPA(CT: C	Dne	piece	of	790	0 Se	ries	Mo	rtise Lo	ock		
Param	eter		Parar	neter			Unit		A1 -	A3	A4		A	5	B2		C2	C4	1	D
GWI	Р	Glo	bal warm	ing pote	ntial		[kg CO ₂ -E	q.]	8.15E	E+00	8.08E-	-02	2.75E	-01	-2.06E-	+00	6.73E-02	5.02E	-02	5.50E-02
ODF	5	Depletion	potential ozone		atospherio	C [k	g CFC11	-Eq.]	1.778	E-09	4.11E-	·13	1.31E	-12	7.23E-	-11	3.43E-13	1.63E	-13	-1.08E-10
AP		Acidificatio	on potentia	al of land	l and wate	r	[kg SO ₂ -E	q.]	4.04	E-02	4.83E-	-04	7.63E	-05	5.67E-	02	4.03E-04	1.46E	-05	1.11E-03
EP		Eu	trophicati	on poter	tial		[kg N-eq	.]	1.97	E-03	3.41E-	-05	4.27E	-06	4.48E-	02	2.85E-05	4.56E	-07	5.05E-05
Smo	g	Ground-level smog formation potentia				l [kg O ₃ -eq.]			4.34E-01		9.95E-	-03	3 1.71E-03		3 2.40E-01		8.29E-03	1.20E-04		1.83E-02
Resour			urces – fo				[MJ]							E-03 7.67E+00 1.3			1.34E-01	2.14E	-03	-6.54E-01
		S OF TH			SOURC	EU				ce of 7900 Seri				lortise Lock		ock				
Param	eter			meter					- A3 A4		44		A5		B2		C2	C4		D
PER	E	Renewab	ca	rrier			[IVIJ] 1.4		9E+01 -		-	-			<u> </u>		-	-		-
PER		Renewab a Total use	is materia	al utiliza	tion		[IVIJ] 0.00		E+00	- +00			-		-		-	-		-
PER	T		resc	ources			^{gy} [MJ] _{1.49}		E+01	-01 4.39E-0		7.26E-03		1.	18E+02	3	.66E-02	1.53E-	03	-9.99E-01
PENF	RE		energ	y carrier		[IVIJ] 1.			9E+02 -				-	<u> </u>			-	-		-
PENF	RM		material	utilizatio			[MJ] _{0.00}		E+00	+00 -			-		<u> </u>		-	-		-
PENF			energy	resource		^y [IMJ] 1			19E+02 1.12		2E+00	0 9.25E-02				9	.32E-01	2.31E-02		-2.33E+00
SM RSF			e of seco	,	aterial dary fuels	1 (1.4.1)			65E+00 0.00E			0.00E+00		1		1	.00E+00	0.00E+00		0.00E+00
NRS		Use of no			,		[MJ]		0.00E+00 0.0 0.00E+00 0.0						00E+00		.00E+00 .00E+00	0.00E+00 0.00E+00		0.00E+00 0.00E+00
FW	/	U	se of net	fresh w	ater		[m ³]		E-02		0E+00 0E-05		3E-04		30E-02		.58E-05	1.23E-		-4.38E-03
		6 OF TH e of 790						ID W	AST	E C	ATEG	GOR	RIES	:						
Param	neter		Parame	eter		Uni	t A	I - A3		A4	A5			B2			C2	C4		D
HW	D	Hazaro	lous was	te dispo	sed	[kg]] 5.1	7E-03	2.	55E-06	6 6.	.37E-	06	3.67	E-03	2.1	12E-06	1.61E-(06	-5.14E-04
NHV	VD	Non haza	ardous w	aste dis	posed	[kg]] 6.4	7E-01	1.4	41E-04	4 7.	.99E-	03	4.37	E-01	1.1	17E-04	4.48E-0	03	1.73E-01
RW	D	Radioa	ctive was	ste dispo	osed	[kg]] 7.3	1E-03	1.4	46E-06	6 5.	5.27E-06		1.40	E-03	1.2	22E-06	9.34E-(07	-4.90E-04
CR	U	Com	ponents	for re-us	se	[kg]] 0.0	0E+00	0.0	00E+0	0 0.	00E+	+00	0.00	E+00	0.0	00E+00 0.00E		00	-
MF	R	Mate	erials for	recyclin	g	[kg]] 0.0	0E+00	0.0	00E+0	0 1.	.60E-	01	0.00	E+00	0.0	0E+00	0.00E+	00	-
ME	R		s for ene	0,		[kg]] 0.0	0E+00	0.0	00E+0	0 0.	00E+	+00	0.00	E+00	0.0	0E+00	0.00E+	00	-
EEI	E		rted therr			[MJ] 0.0	0E+00	0.0	00E+0	0 3.	.58E-	·01	0.00	E+00	0.0	0E+00	9.42E-0	02	-
EE	Т		ieu inell	ах	[MJ] 0.0	0E+00	0.0	00E+0	0 1.	01E+	+00	0.00	E+00	0.0	00E+00 2.58E-0		01	-	

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