

Environmental Product Declaration



In accordance with ISO 14025 and EN 15804:2012+A2:2019 for:

Stainless Steel Press Fittings M-Profile, a-collection

from

Ahlsell AB




Programme	EPD International AB
Programme operator	The International EPD® System
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An EPD should provide current information and may be updated if conditions change. The stated validity is therefore subject to the continued registration and publication at www.environdec.com



General Information

Programme information	
Programme	The International EPD® System
Address:	EPD International AB Box 210 60 SE-100 31 Stockholm Sweden
Website	www.environdec.com
E-mail	info@environdec.com

Accountabilities for PCR, LCA and independent, third-party verification	
Product Category Rules (PCR)	Product Category Rules (PCR): Construction products, 2019:14, Version 1.3.1
Life Cycle Assessment (LCA)	Carbonzero AB
Third-party verification:	<p>Independent third-party verification of the declaration and data, according to ISO 14025:2006:</p> <p><input checked="" type="checkbox"/> EPD process certification</p> <p>Vladimír Kocí, LCA Studio</p> <div style="border: 1px dashed black; padding: 5px; display: inline-block;">  </div> <p>Approved by: The International EPD® System</p>
Procedure for follow-up of data during EPD validity involves third party verifier: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

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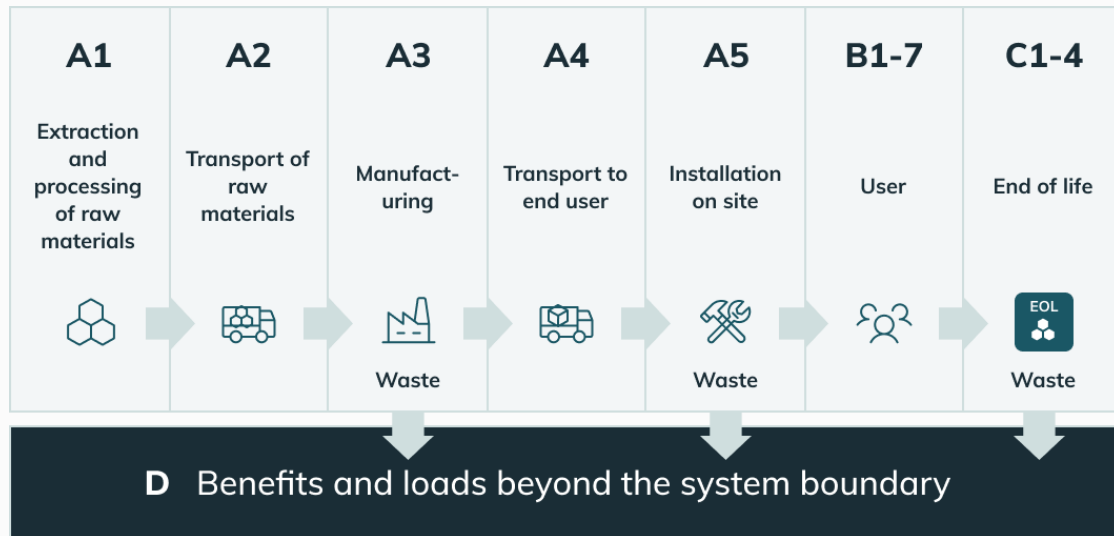
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Company information	
Owner of the EPD	Ahlsell AB
Contact	Andrea Wästlund
Description of the organisation	Ahlsell AB is present where people reside, work, and live their lives. Ahlsell AB is currently the Nordic region's leading community-building distributor of installation products, tools, and supplies for installation, construction, real estate management, industrial and power companies, and the public sector. With around 7,500 employees, 300 stores, e-commerce, and four central warehouses, we are working daily to achieve our vision of building a more sustainable society.
Product-related or management system-related certifications:	ISO 9001 & ISO 14001
Name and location of production site(s):	Name of plant: Manufacturing plant Location: Sweden

Product information	
Product name(s)	54R50 ADAPTOR M ST. 316L A-PRESS-MALE THREAD
Product description:	Press couplings in stainless steel 316L, especially intended for tap water systems. 15-108 mm type approved for tap water installations. The dimensions 15-54 mm are delivered with a pressure indicator. Our stainless press system is also suitable for heating, cooling, and compressed air systems in civil and industrial areas.
RSL	50 years
UN CPC code	41292 - Tube or pipe fittings, of cast-iron or of cast-steel

LCA information	
Functional unit / declared unit	1 kg of Stainless Steel Press Fittings M-Profile
Time representativeness	Data obtained refer to the year 2022
System Boundary	The system boundaries are set to be "cradle-to-gate" with modules A4, C1-C4, and D for end-of-life.
Database(s) and LCA software used	Eando X version 1.01

System diagram



A1	Raw material supply	This module considers the extraction and processing of all raw materials, energy, and transportation which occur upstream to the studied manufacturing process, including packaging material.
A2	Transport to the manufacturer	The raw materials are transported to the manufacturing site.
A3	Manufacturing	This module includes all resources used to produce and waste produced. This also includes additives and packaging material.
A4	Transport	Transportation from the manufacturing site to distribution centre and then from the distribution centre to the building site is included.
	Transport Scenario	Truck: 200km
A5	Construction installation	This stage is not declared.
B1-B7	Use stage	This stage is not declared.
C1	Deconstruction/Demolition	This stage includes the de-construction and/or demolition of the building. This is not relevant as the product included in this study is not used in the construction process.
C2	Transport	This stage represents the transport distance to the waste processing facility.
C3	Waste processing	This stage includes any waste treatment needed.
	EOL Scenario	Landfill 9.92%. Incineration 0.71%. Recycling 89.35%.
C4	Final disposal	This includes any material that is landfilled.
D	Benefits	Emission credits obtained from energy recovery and/or recycling materials

Modules declared, geographical scope, share of specific data (in GWP-GHG results) and data variation (in GWP-GHG results):

	Product stage			Assembly stage		Use stage							End of life stage				Benefits & loads beyond system boundary
	Raw Materials	Transport	Manufacturing	Transport	Assembly	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction demolition	Transport	Waste processing	Disposal	
	A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Declared	X	X	X	X	ND	ND	ND	ND	ND	ND	ND	ND	X	X	X	X	X
Geography	IT	EU	SE	SE	-	-	-	-	-	-	-	-	SE	SE	SE	SE	SE
Specific data used	Factory supplied specific data for A1 - A3			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variation-Products	Averaged			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variation-Sites	0 %			-	-	-	-	-	-	-	-	-	-	-	-	-	-

Content Information

Product Components	Weight, kg	Post-consumer material, weight-%	Biogenic material, weight-% and kg C/kg
Rubber	0.005	0.000	0.000
Metal	0.995	0.000	0.000
Total	1.000	0.000	0.000

Packaging Materials	Weight, kg	Weight-% (versus the product)	Weight biogenic carbon, kg C/kg
LDPE	0.000	0.046	0.000
Corrugated board	0.058	5.760	0.026
Carton	0.184	18.381	0.082
EU pallet normal	229.760	22976.021	95.350
Total	230.002	23000.208	95.458

Dangerous substances from the candidate list of SVHC for Authorisation	EC No.	CAS No.	Weight-% per functional or declared unit

At the date of issue of this declaration, there is no "Substance of Very High Concern" (SVHC) in concentration above 0.1% by weight, and neither does the packaging, following the European REACH regulation (Registration, Evaluation, Authorization and Restriction of Chemicals)

Environmental Information

Potential environmental impact – indicators according to EN 15804+A2

Results per functional unit: 1 kg								
Indicator	Unit	A1 - A3	A4	C1	C2	C3	C4	D
GWP-total	kg CO2 eq	-3.14e+2	1.78e-2	0.00e+0	1.45e-2	4.11e+2	1.86e-2	-1.12e+1
GWP-fossil	kg CO2 eq	9.65e+1	1.71e-2	0.00e+0	1.39e-2	2.53e-3	1.88e-2	-1.12e+1
GWP-biogenic	kg CO2 eq	-4.11e+2	7.30e-4	0.00e+0	5.93e-4	4.11e+2	-2.33e-4	3.18e-3
GWP-luluc	kg CO2 eq	4.13e-1	4.72e-7	0.00e+0	3.84e-7	1.95e-7	1.91e-5	-7.09e-3
ODP	kg CFC-11 eq	1.28e-5	1.03e-15	0.00e+0	8.39e-16	1.82e-15	3.09e-14	-3.90e-11
AP	mole H+ eq	6.03e-1	1.47e-4	0.00e+0	1.20e-4	5.68e-7	6.02e-5	-7.90e-2
EP-freshwater	kg P eq	2.70e-2	2.20e-9	0.00e+0	1.79e-9	5.34e-10	1.70e-8	-1.35e-5
EP-marine	kg N eq	1.64e-1	7.32e-5	0.00e+0	5.95e-5	1.85e-7	1.51e-5	-7.84e-3
EP-terrestrial	mole N eq	1.74e+0	8.02e-4	0.00e+0	6.52e-4	2.44e-6	1.66e-4	-8.72e-2
POCP	kg NMVOC eq	6.27e-1	1.38e-4	0.00e+0	1.12e-4	5.25e-7	4.74e-5	-2.49e-2
ADP-minerals & metals	kg Sb eq	1.12e-3	1.14e-10	0.00e+0	9.26e-11	1.60e-11	5.14e-10	-3.51e-4
ADP-fossil	MJ	1.77e+3	2.46e-1	0.00e+0	2.00e-1	4.05e-3	2.81e-1	-1.50e+2
WDP	m3	7.10e+1	7.70e-5	0.00e+0	6.26e-5	2.52e-4	-2.55e-4	-2.58e+0
Acronyms	<p>GWP-fossil = Global Warming Potential fossil fuels; GWP-biogenic = Global Warming Potential biogenic; GWP-luluc = Global Warming Potential land use and land use change; ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential, Accumulated Exceedance; EP-freshwater = Eutrophication potential, fraction of nutrients reaching freshwater end compartment; EP-marine = Eutrophication potential, fraction of nutrients reaching marine end compartment; EP-terrestrial = Eutrophication potential, Accumulated Exceedance; POCP = Formation potential of tropospheric ozone; ADP-minerals&metals = Abiotic depletion potential for non-fossil resources; ADP-fossil = Abiotic depletion for fossil resources potential; WDP = Water (user) deprivation potential, deprivation-weighted water consumption</p>							

** Disclaimer: The results of this environmental impact indicator shall be used with care as the uncertainties of these results are high or as there is limited experience with the indicator*

Use of resources

Results per functional unit: 1 kg								
Indicator	Unit	A1 - A3	A4	C1	C2	C3	C4	D
PERE	MJ	6.82e+3	1.35e-3	0.00e+0	1.10e-3	9.49e-4	2.52e-2	-3.29e+1
PERM	MJ	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0
PERT	MJ	6.82e+3	1.35e-3	0.00e+0	1.10e-3	9.49e-4	2.52e-2	-3.29e+1
PENRE	MJ	1.77e+3	2.46e-1	0.00e+0	2.00e-1	4.05e-3	2.81e-1	-1.51e+2
PENRM	MJ	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0
PENRT	MJ	1.77e+3	2.46e-1	0.00e+0	2.00e-1	4.05e-3	2.81e-1	-1.51e+2
SM	kg	3.07e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0	-2.48e+0
RSF	MJ	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0
NRSF	MJ	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0
FW	m3	1.68e+0	2.06e-6	0.00e+0	1.67e-6	6.33e-6	3.16e-6	-8.16e-2
Acronyms	PERE = Use of renewable primary energy excluding renewable primary energy resources used as raw materials; PERM = Use of renewable primary energy resources used as raw materials; PERT = Total use of renewable primary energy resources; PENRE = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials; PENRM = Use of non-renewable primary energy resources used as raw materials; PENRT = Total use of non-renewable primary energy re-sources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Use of net fresh water							

** This indicator accounts for all greenhouse gases except biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product. As such, the indicator is identical to GWP-total except that the CF for biogenic CO2 is set to zero.*

Additional voluntary indicators

Results per functional unit: 1 kg								
Indicator	Unit	A1 - A3	A4	C1	C2	C3	C4	D
GWP-GHG	kg CO2 eq	-3.18e+2	1.75e-2	0.00e+0	1.43e-2	2.53e-3	1.81e-2	-1.10e+1
EP	kg PO4 eq	2.24e-6	0.00e+0	0.00e+0	0.00e+0	8.11e-8	5.34e-6	-4.44e-8
Acronyms	GWP-GHG global warming potential - greenhouse gases; EP eutrophication potential							

Additional voluntary indicators

This indicator supports comparability with EPDs based on the previous version of EN 15804 (EN 15804:2012+A1:2013).

Waste and output flows

Results per functional unit: 1 kg								
Indicator	Unit	A1 - A3	A4	C1	C2	C3	C4	D
HWD	kg	6.87e-9	6.12e-14	0.00e+0	4.97e-14	1.39e-14	2.32e-11	-2.38e-9
NHWD	kg	1.48e+0	9.34e-6	0.00e+0	7.59e-6	1.09e-3	4.02e-1	-1.17e+0
RWD	kg	7.75e-3	8.88e-8	0.00e+0	7.22e-8	1.13e-7	3.26e-6	-5.37e-3
Acronyms	HW Hazardous waste disposed; NHW Non-hazardous waste disposed; RW Radioactive waste disposed							

Output flows

Results per functional unit: 1 kg								
Indicator	Unit	A1 - A3	A4	C1	C2	C3	C4	D
CRU	kg	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0
MFR	kg	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0
MER	kg	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0
EEE	MJ	0.00e+0	0.00e+0	0.00e+0	0.00e+0	3.38e-3	0.00e+0	0.00e+0
EET	MJ	0.00e+0	0.00e+0	0.00e+0	0.00e+0	6.13e-3	0.00e+0	0.00e+0
Acronyms	CRU Components for reuse; MFR Materials for recycling; MER Materials for energy recovery; EEE Exported electric energy; ETE Exported thermal energy							

Product Table

Name	Weight, kg	Unit
M12 STRAIGHT COUPLING	0.024	pc
18 BEND 45° WITH PLAIN ENDS	0.073	pc
22 BEND 30° WITH PLAIN ENDS	0.134	pc
88,9 BEND 45° WITH PLAIN ENDS	2.078	pc
22 BEND 15° WITH PLAIN ENDS	0.134	pc
108 BEND 30° WITH PLAIN ENDS	2.622	pc
M42-M15-M42 T-PIECE REDUCED	0.231	pc
M108-M35-M108 T-PIECE REDUCED	1.940	pc
M28-Rp1-M28 T-PIECE WITH FEMALE THREAD	0.194	pc
M12-R3/8-M12 T-PIECE REDUCED	0.071	pc
M15-R½-M15 T-PIECE WITH MALE THREAD	0.090	pc
M42-Rp1½-M42 T-PIECE WITH FEMALE THREAD	0.427	pc
42-18 REDUCER A-PRESS M-PROF. STAINL 316L	0.120	pc
108-54 REDUCER A-PRESS M-PROF. STAINL 316L	0.874	pc
G¾-M18 ADAPT W. UN. NUT FEM. FL SEAL	0.146	pc
G1½-M35 ADAPT W. UN. NUT FEM. FL SEAL	0.077	pc
G¾-M18 ADAPT UN. NUT IN BRASS/STAIN	0.090	pc
G1¼-M15 ADAPT W. UN. NUT FEM. FL SEAL	-0.005	pc
M18-Rp¾ ADAPT.UN.FEM. THR.NUT EPDM FLS	0.146	pc
M22-Rp1 ADAPT.UN.ST.FEM. THR.NUT FLS	0.280	pc

Name	Weight, kg	Unit
M35-Rp1 ADAPTOR WITH FEMALE THREAD	0.150	pc
M12-Rp3/8 ADAPTOR WITH FEMALE THREAD	0.052	pc
M28-R1¼ ADAPTOR WITH MALE THREAD	0.196	pc
M22-Rp½ ADAPTOR FEMALE THR.PLAIN END	0.115	pc
M22-R¾ ADAPTOR MALE THR.PLAIN END	0.078	pc
M42 FLANGE W. PRESS SOCK.PN16	2.105	pc
18 SLIP COUPLING M ST. 316L A-PRESS	0.063	pc
42 SLIP COUPLING M ST. 316L A-PRESS	0.218	pc
28 SLIP COUPLING M ST. 316L A-PRESS	0.114	pc
22 SLIP COUPLING M ST. 316L A-PRESS	0.084	pc
18 ELBOW 45° M ST. 316L A-PRESS	0.058	pc
22 ELBOW 45° M ST. 316L A-PRESS	0.080	pc
54R50 BEND 90° M ST. 316L A-PRESS-MALE THREAD	1.011	pc
22 TEE EQUAL M ST. 316L A-PRESS	0.110	pc
15R15 TEE M ST- 316L A-PRESS-FEMALE THREAD	0.084	pc
22R15 TEE M ST- 316L A-PRESS-FEMALE THREAD	0.122	pc
18-15 RED. WITH PLAIN END ST. 316L. A-PRESS	0.041	pc
28-22 RED. WITH PLAIN END ST. 316L. A-PRESS	0.066	pc
54R15 TEE M ST- 316L A-PRESS-FEMALE THREAD	0.372	pc
22 CAP M ST. 316L A-PRESS	0.045	pc

Product Table

Name	Weight, kg	Unit
18R15 ADAPTOR M ST. 316L A-PRESS-MALE THREAD	0.059	pc
54 CAP M ST. 316L A-PRESS	0.185	pc
54R50 ADAPTOR M ST. 316L A-PRESS-MALE THREAD	0.405	pc
22R20 ADAPTOR M ST. 316L A-PRESS-MALE THREAD	0.079	pc
88,9 COUPLING M ST. 316L A-PRESS	0.792	pc
88,9 ELBOW 90° M ST. 316L A-PRESS	1.490	pc
76,1 ELBOW 90° M ST. 316L A-PRESS	1.180	pc
88,9-76,1 RED. WITH PLAIN END ST. 316L A-PRESS	0.682	pc
15-R15 UNION MALE THREAD M ST. 316L A-PRESS	0.106	pc
35-R32 UNION MALE THREAD M ST. 316L A-PRESS	0.357	pc
54 BEND 75° WITH PLAIN ENDS	0.893	pc
35 BEND 75° WITH PLAIN ENDS	0.378	pc
15 BEND 60° WITH PLAIN ENDS	0.060	pc
54 BEND 60° WITH PLAIN ENDS	0.884	pc
42 BEND 30° WITH PLAIN ENDS	0.558	pc
15 BEND 15° WITH PLAIN ENDS	0.060	pc
M22-R $\frac{3}{4}$ BEND ADAPT 90° W. MALE THR	0.127	pc
M15-R $\frac{1}{2}$ BEND ADAPT 90° W. MALE THR	0.078	pc
M18-M12-M18 T-PIECE REDUCED	0.077	pc
M76.1-M28-M76.1 T-PIECE REDUCED	1.019	pc

Name	Weight, kg	Unit
M76.1-M22-M76.1 T-PIECE REDUCED	1.010	pc
M108-M42-M108 T-PIECE REDUCED	1.957	pc
M18-R $\frac{1}{2}$ -M18 T-PIECE WITH MALE THREAD	0.094	pc
M28-R1-M28 T-PIECE WITH MALE THREAD	0.201	pc
M35-Rp1 $\frac{1}{4}$ ADAPT.UN.FEM.THR.NUT EPDM FL.S	0.337	pc
M54-Rp2 ADAPT.UN.FEM.THR.NUT EPDM FL.S	0.787	pc
M18-R $\frac{1}{2}$ ADAPT.UN.ST.MALE.THR.NUT FL.S	0.190	pc
M54-Rp1 $\frac{1}{2}$ ADAPTOR WITH FEMALE THREAD	0.373	pc
M12-R $\frac{1}{2}$ ADAPTOR WITH MALE THREAD	0.061	pc
M18-Rp $\frac{1}{2}$ ADAPTOR FEMALE THR.PLAIN END	0.090	pc
28x33.7 TRANSITION JOINT GROOVED FITT	0.171	pc
35x42.4 TRANSITION JOINT GROOVED FITT	0.239	pc
M28 FLANGE W. PRESS SOCK.PN16	1.101	pc
54x60.3 TRANSITION JOINT GROOVED FITT	0.397	pc
M54 FLANGE W. PRESS SOCK.PN16	2.820	pc
M22-G $\frac{3}{4}$ 90° FEMALE ELBOW W. WALL PLATE	0.163	pc
108 BRIDGE LONG	2.516	pc
15 COUPLING M ST. 316L A-PRESS	0.040	pc
15 ELBOW 90° M ST. 316L A-PRESS	0.056	pc
54 ELBOW 90° M ST. 316L A-PRESS	0.503	pc

Product Table

Name	Weight, kg	Unit
18 ELBOW 90° WITH PLAIN END M ST.316L. A-PRESS	0.073	pc
42 ELBOW 45° M ST. 316L A-PRESS	0.258	pc
18 ELBOW 45° WITH PLAIN END M ST.316L. A-PRESS	0.058	pc
22 ELBOW 90° WITH PLAIN ENDS ST. 316L. A-PRESS	0.128	pc
28 TEE EQUAL M ST. 316L A-PRESS	0.151	pc
35 TEE EQUAL M ST. 316L A-PRESS	0.200	pc
22-15 RED. WITH PLAIN END ST. 316L. A-PRESS	0.046	pc
42-28 RED. WITH PLAIN END ST. 316L. A-PRESS	0.138	pc
15R15 ADAPTOR M ST. 316L A-PRESS-MALE THREAD	0.058	pc
22R15 ADAPTOR M ST. 316L A-PRESS-FEMALE THREAD	0.084	pc
15 PIPE BRIDGE ST. 316L A-PRESS	0.056	pc
76,1 SLIP COUPLING M ST. 316L A-PRESS	1.011	pc
76,1 ELBOW 45° M ST. 316L A-PRESS	0.846	pc
76,1 TEE EQUAL M ST. 316L A-PRESS	1.274	pc
76,1-54 RED. WITH PLAIN END ST. 316L. A-PRESS	0.458	pc
108-88,9 RED. WITH PLAIN END ST. 316L. A-PRESS	0.995	pc
22R15 ADAPTOR M ST. 316L A-PRESS-MALE THREAD	0.076	pc
28R20 ADAPTOR M ST. 316L A-PRESS-MALE THREAD	0.102	pc
18-R20 UNION MALE THREAD M ST. 316L. A-PRESS	0.196	pc
22-R15 UNION MALE THREAD M ST. 316L. A-PRESS	0.075	pc

Additional information

The estimated impact results are only relative statements, which do not indicate the endpoints of the impact categories, exceeding threshold values, safety margins, and/or risks. It is advised not to use the results of modules A1-A3 (A1-A5 for services) without considering the results of module C.

The end-of-life reflects the Swedish market, where 1 % of ferrous metallic waste is landfilled, and 99 % recycled, a wastage of 10 % is considered during the recycling process. The other materials' EoL scenarios are as per SCB data for 2020. For the credit for recovered material (module D), EU datasets were used.

Data quality: All datasets used came from reputable databases Sphera Managed LCA Content (MLC) (fka GaBi database) and Ecoinvent, with good technological representativeness. Therefore, it could be considered good.





Allocation: No co-product allocation has been applied since no co-products are generated, and therefore allocation has not been relevant.

Cut-off Criteria: The general rules for the exclusion of inputs and outputs follow the requirements in EN15804+A2.

References

EN 15804:2012+A2	Sustainability of construction works – Environmental product declaration – Core rules for the product category of construction products
EPD International (2021)	General Programme Instructions of the International EPD [®] System, version 4.0
PCR 2019:14	PCR 2019:14. v1.3.1. Construction products (EN 15804: A2)
SCB (2023)	https://www.statistikdatabasen.scb.se/pxweb/en/ssd/START_MI_MI0305/MI0305T003/table/tableViewLayout1/
ISO 14025:2006	International Standard ISO 14025 – Environmental labels and declarations – Type III environmental declarations – Principles and procedures
ISO 14040:2006	International Standard ISO 14040: Environmental Management – Life cycle assessment – Principles and framework. Second edition 2006-07-01.
ISO 14044:2006	International Standard ISO 14044: Environmental Management – Life cycle assessment – Requirements and Guidelines.

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