

Environmental Profile

This LCA is calculated according to: ISO 14044, ISO 14040 and EN 15804

Ecochain v3.5.64



Product: 2015756 - Infiltration/Ventilation Pipe 110/95x2,3
 Unit: 1 piece
 Manufacturer: Wavin - SE - Eskilstuna

LCA standard: EN15804+A2 (2019)
 Standard database: Worldwide - Ecoinvent v 3.6 Cut-Off
 Externally verified: Yes
 Issue date: 20-06-2022
 End of validity: 20-06-2027
 Verifier: Harry van Ewijk - SGS Search



This LCA was evaluated according to EN15804+A2. It was concluded that the LCA complies with this standard.

The LCA background information and project dossier have been registered in the online Ecochain application in the account Wavin - SE - Eskilstuna (2020). (☑ = module declared, MND = module not declared).

A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
☑	☑	☑	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND	☑	☑	☑	☑

Product stage

A1 Raw material supply A2 Transport A3 Manufacturing

Construction process stage

A4 Transport gate to site
 A5 Assembly / Construction installation process

Use stage

B1 Use B2 Maintenance B3 Repair B4 Replacement B5 Refurbishment
 B6 Operational energy use B7 Operational water use

End-of-Life stage

C1 De-construction demolition C2 Transport C3 Waste processing
 C4 Disposal

Benefits and loads beyond the system boundaries

D Reuse- Recovery- Recycling- potential

Environmental impacts and parameters

GWP-total = EF Climate Change [kg CO2 eq]; **GWP-f** = EF Climate change - Fossil [kg CO2 eq]; **GWP-b** = EF Climate Change - Biogenic [kg CO2 eq]; **GWP-luluc** = EF Climate Change - Land use and LU change [kg CO2 eq]; **ODP** = EF Ozone depletion [kg CFC11 eq]; **AP** = EF Acidification [mol H+ eq]; **EP-fw** = EF Eutrophication, freshwater [kg P eq]; **EP-m** = EF Eutrophication, marine [kg N eq]; **EP-T** = EF Eutrophication, terrestrial [mol N eq]; **POCP** = EF Photochemical ozone formation [kg NMVOC eq]; **ADP-mm** = EF Resource use, minerals and metals [kg Sb eq]; **ADP-f** = EF Resource use, fossils [MJ]; **WDP** = EF Water use [m3 depriv.]; **PM** = EF Particulate matter [disease inc.]; **IR** = EF Ionising radiation [kBq U-235 eq]; **ETP-fw** = EF Ecotoxicity, freshwater [CTUe]; **HTP-c** = EF Human toxicity, cancer [CTUh]; **HTP-nc** = EF Human toxicity, non-cancer [CTUh]; **SQP** = EF Land use [Pt]; **PERE** = Use of renewable primary energy excluding renewable primary energy resources used as raw materials [MJ]; **PERM** = Use of renewable primary energy resources used as raw materials [MJ]; **PERT** = Total use of renewable primary energy resources [MJ]; **PENRE** = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials [MJ]; **PENRM** = Use of non-renewable primary energy resources used as raw materials [MJ]; **PENRT** = Total use of non-renewable primary energy resources [MJ]; **PET** = Total energy [MJ]; **SM** = Use of secondary material [kg]; **RSF** = Use of renewable secondary fuels [MJ]; **NRSF** = Use of non-renewable secondary fuels [MJ]; **FW** = Use of net fresh water [m3]; **HWD** = Hazardous waste disposed [kg]; **NHWD** = Non-hazardous waste disposed [kg]; **RWD** = Radioactive waste disposed [kg]; **CRU** = Components for re-use [kg]; **MFR** = Materials for recycling [kg]; **MER** = Materials for energy recovery [kg]; **EE** = Exported energy [MJ]; **EET** = Exported energy thermic [MJ]; **EEE** = Exported energy electric [MJ]

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Results

Environmental impact	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
GWP-total	kg CO2 eq	2.67E+0	2.20E-1	9.14E-2	2.98E+0	3.41E-2	1.11E+0	1.88E-2	-1.72E+0	2.43E+0
GWP-f	kg CO2 eq	2.66E+0	2.19E-1	6.63E-2	2.94E+0	3.41E-2	1.11E+0	1.89E-2	-1.71E+0	2.39E+0
GWP-b	kg CO2 eq	1.39E-2	-1.46E-5	1.74E-2	3.14E-2	2.07E-5	-1.38E-3	1.41E-5	-6.32E-3	2.37E-2
GWP-luluc	kg CO2 eq	8.69E-4	1.30E-4	7.71E-3	8.70E-3	1.21E-5	1.92E-4	2.75E-7	-3.77E-4	8.53E-3
ODP	kg CFC11 eq	7.36E-8	4.54E-8	7.51E-9	1.26E-7	7.86E-9	2.51E-8	4.03E-10	-8.15E-8	7.83E-8
AP	mol H+ eq	9.81E-3	5.33E-3	5.61E-4	1.57E-2	1.94E-4	1.06E-3	9.64E-6	-4.76E-3	1.22E-2
EP-fw	kg P eq	4.80E-5	1.31E-6	1.22E-6	5.05E-5	2.81E-7	5.56E-6	1.26E-8	-2.16E-5	3.47E-5
EP-m	kg N eq	1.67E-3	1.35E-3	1.66E-4	3.19E-3	6.95E-5	3.07E-4	6.77E-6	-8.70E-4	2.70E-3
EP-T	mol N eq	1.89E-2	1.50E-2	1.83E-3	3.57E-2	7.66E-4	3.38E-3	3.91E-5	-9.69E-3	3.02E-2
POCP	kg NMVOC eq	8.91E-3	3.93E-3	5.07E-4	1.33E-2	2.19E-4	1.07E-3	1.53E-5	-4.54E-3	1.01E-2
ADP-mm	kg Sb eq	3.66E-5	2.85E-6	1.99E-6	4.14E-5	8.82E-7	4.18E-6	9.70E-9	-1.10E-5	3.55E-5
ADP-f	MJ	9.18E+1	2.96E+0	6.59E-1	9.54E+1	5.23E-1	3.34E+0	2.94E-2	-5.11E+1	4.82E+1
WDP	m3 depriv.	2.10E+0	6.49E-3	4.24E-1	2.53E+0	1.61E-3	6.53E-2	1.48E-4	-9.94E-1	1.60E+0
PM	disease inc.	8.28E-8	1.08E-8	9.47E-9	1.03E-7	3.08E-9	1.73E-8	2.02E-10	-3.81E-8	8.56E-8
IR	kBq U-235 eq	6.44E-2	1.26E-2	1.96E-3	7.89E-2	2.29E-3	1.01E-2	1.37E-4	-3.05E-2	6.09E-2
ETP-fw	CTUe	1.72E+1	2.16E+0	1.84E+0	2.12E+1	4.25E-1	3.80E+0	2.59E-2	-7.84E+0	1.76E+1
HTP-c	CTUh	1.01E-9	1.16E-10	7.25E-11	1.20E-9	1.51E-11	4.56E-10	7.25E-13	-3.54E-10	1.32E-9
HTP-nc	CTUh	2.02E-8	1.99E-9	1.98E-9	2.42E-8	5.07E-10	5.71E-9	1.66E-11	-5.40E-9	2.50E-8
SQP	Pt	3.76E+0	1.15E+0	8.66E-2	5.00E+0	4.48E-1	2.67E+0	7.55E-2	-1.64E+0	6.56E+0
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	1.62E+0	2.59E-2	4.15E+0	5.80E+0	7.51E-3	1.65E-1	1.16E-3	-7.35E-1	5.24E+0
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	1.62E+0	2.59E-2	4.15E+0	5.80E+0	7.51E-3	1.65E-1	1.16E-3	-7.35E-1	5.24E+0
PENRE	MJ	9.85E+1	3.14E+0	6.99E-1	1.02E+2	5.56E-1	3.55E+0	3.12E-2	-5.52E+1	5.13E+1
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	9.85E+1	3.14E+0	6.99E-1	1.02E+2	5.56E-1	3.55E+0	3.12E-2	-5.52E+1	5.13E+1
PET	MJ	1.00E+2	3.17E+0	4.85E+0	1.08E+2	5.63E-1	3.72E+0	3.24E-2	-5.59E+1	5.65E+1
SM	kg	0	0	0	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0	0	0
FW	m3	3.23E-2	2.26E-4	1.01E-2	4.26E-2	5.92E-5	1.92E-3	3.63E-5	-1.52E-2	2.94E-2

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	1.53E-5	4.36E-6	1.00E-6	2.07E-5	1.34E-6	5.45E-6	3.55E-8	-1.65E-5	1.11E-5
NHWD	kg	1.15E-1	6.94E-2	3.07E-3	1.87E-1	3.24E-2	1.64E-1	1.30E-1	-4.29E-2	4.71E-1
RWD	kg	5.77E-5	2.02E-5	2.79E-6	8.07E-5	3.56E-6	1.28E-5	1.92E-7	-2.85E-5	6.87E-5
CRU	kg	0	0	0	0	0	0	0	0	0
MFR	kg	0	0	0	0	0	0	0	0	0
MER	kg	0	0	0	0	0	0	0	0	0
EE	MJ	0	0	0	0	0	0	0	0	0
EET	MJ	0	0	0	0	0	0	0	0	0
EEE	MJ	0	0	0	0	0	0	0	0	0



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