

Environmental Profile

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

Ecochain v3.5.64



Product: 3062812 - PP Sewer Pipe SW RB 200 SN8 L=6 Sew.Lock
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					Use stage							End-of-Life stage				
A1 Raw material supply A2 Transport A3 Manufacturing					B1 Use B2 Maintenance B3 Repair B4 Replacement B5 Refurbishment B6 Operational energy use B7 Operational water use							C1 De-construction demolition C2 Transport C3 Waste processing C4 Disposal				
Construction process stage												Benefits and loads beyond the system boundaries				
A4 Transport gate to site A5 Assembly / Construction installation process												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	5.08E+1	1.97E+0	1.79E+0	5.46E+1	6.66E-1	1.94E+1	3.14E-1	-3.10E+1	4.40E+1
GWP-f	kg CO2 eq	5.06E+1	1.97E+0	1.29E+0	5.39E+1	6.66E-1	1.94E+1	3.14E-1	-3.09E+1	4.34E+1
GWP-b	kg CO2 eq	2.29E-1	5.21E-4	3.41E-1	5.70E-1	4.04E-4	-2.67E-2	2.73E-4	-1.08E-1	4.36E-1
GWP-luluc	kg CO2 eq	1.30E-2	8.67E-4	1.50E-1	1.64E-1	2.36E-4	3.74E-3	5.33E-6	-5.98E-3	1.62E-1
ODP	kg CFC11 eq	8.86E-7	4.24E-7	1.47E-7	1.46E-6	1.53E-7	4.86E-7	7.87E-9	-1.14E-6	9.62E-7
AP	mol H+ eq	1.79E-1	2.67E-2	1.10E-2	2.17E-1	3.79E-3	2.04E-2	1.88E-4	-8.68E-2	1.55E-1
EP-fw	kg P eq	7.34E-4	1.63E-5	2.39E-5	7.74E-4	5.48E-6	1.08E-4	2.45E-7	-3.40E-4	5.47E-4
EP-m	kg N eq	2.97E-2	7.50E-3	3.25E-3	4.04E-2	1.36E-3	5.93E-3	1.22E-4	-1.53E-2	3.25E-2
EP-T	mol N eq	3.35E-1	8.31E-2	3.57E-2	4.54E-1	1.50E-2	6.53E-2	7.62E-4	-1.70E-1	3.65E-1
POCP	kg NMVOC eq	1.56E-1	2.23E-2	9.90E-3	1.88E-1	4.27E-3	2.07E-2	2.86E-4	-7.83E-2	1.35E-1
ADP-mm	kg Sb eq	6.79E-4	3.94E-5	3.89E-5	7.57E-4	1.72E-5	8.09E-5	1.89E-7	-2.05E-4	6.51E-4
ADP-f	MJ	1.81E+3	2.84E+1	1.29E+1	1.85E+3	1.02E+1	6.48E+1	5.74E-1	-9.74E+2	9.53E+2
WDP	m3 depriv.	3.56E+1	8.53E-2	8.29E+0	4.40E+1	3.14E-2	1.27E+0	2.87E-3	-1.69E+1	2.84E+1
PM	disease inc.	1.56E-6	1.43E-7	1.85E-7	1.89E-6	6.01E-8	3.36E-7	3.95E-9	-7.26E-7	1.57E-6
IR	kBq U-235 eq	9.13E-1	1.20E-1	3.82E-2	1.07E+0	4.47E-2	1.95E-1	2.66E-3	-4.52E-1	8.62E-1
ETP-fw	CTUe	2.61E+2	2.35E+1	3.59E+1	3.20E+2	8.30E+0	7.31E+1	4.81E-1	-1.20E+2	2.82E+2
HTP-c	CTUh	1.13E-8	9.11E-10	1.42E-9	1.37E-8	2.95E-10	8.82E-9	1.40E-11	-5.14E-9	1.76E-8
HTP-nc	CTUh	3.19E-7	2.42E-8	3.86E-8	3.82E-7	9.89E-9	1.09E-7	3.09E-10	-1.46E-7	3.56E-7
SQP	Pt	6.08E+1	1.93E+1	1.69E+0	8.18E+1	8.74E+0	5.18E+1	1.47E+0	-2.61E+1	1.18E+2
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	2.57E+1	3.11E-1	8.11E+1	1.07E+2	1.47E-1	3.20E+0	2.23E-2	-1.21E+1	9.84E+1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	2.57E+1	3.11E-1	8.11E+1	1.07E+2	1.47E-1	3.20E+0	2.23E-2	-1.21E+1	9.84E+1
PENRE	MJ	1.94E+3	3.02E+1	1.37E+1	1.99E+3	1.08E+1	6.91E+1	6.10E-1	-1.05E+3	1.02E+3
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	1.94E+3	3.02E+1	1.37E+1	1.99E+3	1.08E+1	6.91E+1	6.10E-1	-1.05E+3	1.02E+3
PET	MJ	1.97E+3	3.05E+1	9.48E+1	2.09E+3	1.10E+1	7.23E+1	6.32E-1	-1.06E+3	1.12E+3
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	5.33E-1	2.93E-3	1.97E-1	7.33E-1	1.16E-3	3.74E-2	7.08E-4	-2.52E-1	5.19E-1

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	2.09E-4	6.01E-5	1.96E-5	2.89E-4	2.61E-5	1.05E-4	6.92E-7	-2.24E-4	1.97E-4
NHWD	kg	1.89E+0	1.36E+0	6.00E-2	3.31E+0	6.33E-1	3.18E+0	2.53E+0	-7.49E-1	8.90E+0
RWD	kg	7.89E-4	1.90E-4	5.44E-5	1.03E-3	6.95E-5	2.47E-4	3.75E-6	-4.07E-4	9.47E-4
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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