

Environmental Profile

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

Ecochain v3.5.64



Product: 3041372 - PE100 Pressure Pipe BK 90x8.2 L=100
Unit: 1 piece
Manufacturer: Wavin - DE - Westeregeln - verified
Address: Borrweg 10
39448 Börde-Hakel
Germany
Contact: https://www.wavin.com/en-en

LCA standard: EN15804+A2 (2019)
Standard database: Worldwide - Ecoinvent v 3.6 Cut-Off
Externally verified: Yes
Issue date: 11-08-2022
End of validity: 11-08-2027
Verifier: Martijn van Hövell - SGS Search



PE pressure pipe that offers the right solution for every part of the main network in your sewerage system.

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 - DE - Westeregeln - verified (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					D Reuse- Recovery- Recycling- potential											
A5 Assembly / Construction installation process																

Results

Environmental impact	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
GWP-total	kg CO2 eq	4.30E+2	9.76E+0	8.82E+0	4.48E+2	5.64E+0	1.83E+2	3.12E+0	-2.83E+2	3.58E+2
GWP-f	kg CO2 eq	4.28E+2	9.75E+0	7.24E+0	4.45E+2	5.63E+0	1.83E+2	3.12E+0	-2.82E+2	3.55E+2
GWP-b	kg CO2 eq	2.10E+0	4.50E-3	7.45E-1	2.84E+0	3.42E-3	-2.25E-1	2.34E-3	-1.07E+0	1.56E+0
GWP-luluc	kg CO2 eq	1.28E-1	3.57E-3	8.39E-1	9.70E-1	1.99E-3	3.16E-2	4.48E-5	-6.41E-2	9.40E-1
ODP	kg CFC11 eq	2.34E-5	2.15E-6	9.49E-7	2.65E-5	1.30E-6	4.12E-6	6.66E-8	-1.35E-5	1.85E-5
AP	mol H+ eq	1.60E+0	5.65E-2	4.29E-2	1.69E+0	3.21E-2	1.73E-1	1.59E-3	-7.80E-1	1.12E+0
EP-fw	kg P eq	7.05E-3	9.83E-5	1.64E-4	7.31E-3	4.64E-5	9.13E-4	2.06E-6	-3.51E-3	4.76E-3
EP-m	kg N eq	2.67E-1	1.99E-2	8.82E-3	2.95E-1	1.15E-2	5.04E-2	1.12E-3	-1.43E-1	2.16E-1
EP-T	mol N eq	2.97E+0	2.20E-1	8.88E-2	3.28E+0	1.27E-1	5.54E-1	6.45E-3	-1.59E+0	2.38E+0
POCP	kg NMVOC eq	1.42E+0	6.27E-2	2.56E-2	1.51E+0	3.62E-2	1.75E-1	2.53E-3	-7.39E-1	9.87E-1
ADP-mm	kg Sb eq	3.85E-3	2.47E-4	2.13E-4	4.31E-3	1.46E-4	6.85E-4	1.59E-6	-1.82E-3	3.32E-3
ADP-f	MJ	1.52E+4	1.47E+2	8.50E+1	1.54E+4	8.65E+1	5.49E+2	4.86E+0	-8.45E+3	7.64E+3
WDP	m3 depriv.	3.28E+2	5.26E-1	4.85E+1	3.77E+2	2.65E-1	1.08E+1	2.23E-2	-1.64E+2	2.24E+2
PM	disease inc.	1.52E-5	8.75E-7	3.83E-7	1.64E-5	5.08E-7	2.85E-6	3.34E-8	-6.17E-6	1.37E-5
IR	kBq U-235 eq	1.31E+1	6.16E-1	2.29E-1	1.40E+1	3.78E-1	1.65E+0	2.27E-2	-5.10E+0	1.09E+1
ETP-fw	CTUe	2.73E+3	1.31E+2	2.09E+2	3.07E+3	7.02E+1	6.23E+2	4.29E+0	-1.23E+3	2.54E+3
HTP-c	CTUh	1.12E-7	4.25E-9	7.76E-9	1.24E-7	2.50E-9	7.39E-8	1.18E-10	-5.83E-8	1.42E-7
HTP-nc	CTUh	2.66E-6	1.43E-7	2.00E-7	3.00E-6	8.37E-8	9.34E-7	2.72E-9	-1.31E-6	2.71E-6
SQP	Pt	5.77E+2	1.28E+2	8.17E+0	7.13E+2	7.40E+1	4.38E+2	1.25E+1	-2.68E+2	9.70E+2
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	2.45E+2	1.84E+0	4.52E+2	6.99E+2	1.24E+0	2.71E+1	1.92E-1	-1.22E+2	6.05E+2
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	2.45E+2	1.84E+0	4.52E+2	6.99E+2	1.24E+0	2.71E+1	1.92E-1	-1.22E+2	6.05E+2
PENRE	MJ	1.63E+4	1.56E+2	9.09E+1	1.66E+4	9.18E+1	5.85E+2	5.16E+0	-9.11E+3	8.13E+3
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	1.63E+4	1.56E+2	9.09E+1	1.66E+4	9.18E+1	5.85E+2	5.16E+0	-9.11E+3	8.13E+3
PET	MJ	1.66E+4	1.58E+2	5.43E+2	1.73E+4	9.30E+1	6.12E+2	5.35E+0	-9.23E+3	8.73E+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	4.96E+0	1.79E-2	1.15E+0	6.13E+0	9.79E-3	3.17E-1	6.01E-3	-2.51E+0	3.95E+0

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	2.02E-3	3.73E-4	1.37E-4	2.53E-3	2.21E-4	8.94E-4	5.84E-6	-2.48E-3	1.17E-3
NHWD	kg	1.38E+1	9.32E+0	1.73E-1	2.33E+1	5.36E+0	2.70E+1	2.14E+1	-6.88E+0	7.01E+1
RWD	kg	1.43E-2	9.65E-4	3.28E-4	1.56E-2	5.88E-4	2.09E-3	3.18E-5	-4.73E-3	1.36E-2
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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