

Environmental Profile

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

Ecochain v3.5.64



Product: 3041796 - PE100 Pressure Pipe BK 75x6.8 L=12
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	3.57E+1	8.10E-1	9.21E-1	3.74E+1	4.68E-1	1.52E+1	2.59E-1	-2.35E+1	2.99E+1
GWP-f	kg CO2 eq	3.55E+1	8.09E-1	7.34E-1	3.71E+1	4.67E-1	1.52E+1	2.59E-1	-2.34E+1	2.96E+1
GWP-b	kg CO2 eq	1.73E-1	3.73E-4	8.74E-2	2.61E-1	2.84E-4	-1.77E-2	1.94E-4	-8.86E-2	1.55E-1
GWP-luluc	kg CO2 eq	1.06E-2	2.96E-4	9.94E-2	1.10E-1	1.65E-4	2.63E-3	3.72E-6	-5.32E-3	1.08E-1
ODP	kg CFC11 eq	1.95E-6	1.79E-7	8.64E-8	2.21E-6	1.08E-7	3.42E-7	5.53E-9	-1.12E-6	1.54E-6
AP	mol H+ eq	1.33E-1	4.69E-3	4.54E-3	1.42E-1	2.66E-3	1.44E-2	1.32E-4	-6.47E-2	9.42E-2
EP-fw	kg P eq	5.86E-4	8.16E-6	1.72E-5	6.11E-4	3.85E-6	7.58E-5	1.71E-7	-2.91E-4	4.00E-4
EP-m	kg N eq	2.22E-2	1.65E-3	8.47E-4	2.47E-2	9.53E-4	4.18E-3	9.33E-5	-1.18E-2	1.81E-2
EP-T	mol N eq	2.47E-1	1.82E-2	8.76E-3	2.74E-1	1.05E-2	4.60E-2	5.35E-4	-1.32E-1	1.99E-1
POCP	kg NMVOC eq	1.18E-1	5.20E-3	2.52E-3	1.26E-1	3.00E-3	1.45E-2	2.10E-4	-6.14E-2	8.24E-2
ADP-mm	kg Sb eq	3.19E-4	2.05E-5	2.50E-5	3.65E-4	1.21E-5	5.69E-5	1.32E-7	-1.51E-4	2.83E-4
ADP-f	MJ	1.26E+3	1.22E+1	8.39E+0	1.28E+3	7.18E+0	4.56E+1	4.03E-1	-7.01E+2	6.35E+2
WDP	m3 depriv.	2.72E+1	4.36E-2	5.66E+0	3.29E+1	2.20E-2	8.95E-1	1.85E-3	-1.36E+1	2.02E+1
PM	disease inc.	1.26E-6	7.26E-8	3.69E-8	1.37E-6	4.22E-8	2.36E-7	2.77E-9	-5.12E-7	1.14E-6
IR	kBq U-235 eq	1.09E+0	5.11E-2	1.98E-2	1.16E+0	3.14E-2	1.37E-1	1.88E-3	-4.23E-1	9.07E-1
ETP-fw	CTUe	2.27E+2	1.09E+1	2.29E+1	2.61E+2	5.83E+0	5.17E+1	3.56E-1	-1.02E+2	2.17E+2
HTP-c	CTUh	9.29E-9	3.53E-10	8.60E-10	1.05E-8	2.07E-10	6.13E-9	9.80E-12	-4.84E-9	1.20E-8
HTP-nc	CTUh	2.20E-7	1.19E-8	2.28E-8	2.55E-7	6.95E-9	7.76E-8	2.26E-10	-1.08E-7	2.32E-7
SQP	Pt	4.80E+1	1.06E+1	6.92E-1	5.93E+1	6.14E+0	3.64E+1	1.04E+0	-2.23E+1	8.06E+1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	2.03E+1	1.53E-1	5.36E+1	7.41E+1	1.03E-1	2.25E+0	1.60E-2	-1.01E+1	6.63E+1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	2.03E+1	1.53E-1	5.36E+1	7.41E+1	1.03E-1	2.25E+0	1.60E-2	-1.01E+1	6.63E+1
PENRE	MJ	1.35E+3	1.30E+1	8.98E+0	1.38E+3	7.62E+0	4.85E+1	4.28E-1	-7.56E+2	6.76E+2
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	1.35E+3	1.30E+1	8.98E+0	1.38E+3	7.62E+0	4.85E+1	4.28E-1	-7.56E+2	6.76E+2
PET	MJ	1.37E+3	1.31E+1	6.26E+1	1.45E+3	7.72E+0	5.08E+1	4.44E-1	-7.66E+2	7.43E+2
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	4.12E-1	1.49E-3	1.34E-1	5.48E-1	8.12E-4	2.63E-2	4.99E-4	-2.08E-1	3.67E-1

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	1.68E-4	3.09E-5	1.14E-5	2.10E-4	1.84E-5	7.42E-5	4.84E-7	-2.06E-4	9.69E-5
NHWD	kg	1.14E+0	7.74E-1	1.48E-2	1.93E+0	4.45E-1	2.24E+0	1.78E+0	-5.71E-1	5.82E+0
RWD	kg	1.19E-3	8.01E-5	2.72E-5	1.30E-3	4.88E-5	1.74E-4	2.64E-6	-3.93E-4	1.13E-3
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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