

Environmental Profile

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

Ecochain v3.5.64



Product: 3061934 - Wafix PP PipeWT 32 L=0,5 w/socket
Unit: 1 piece
Manufacturer: Wavin - SE - Eskilstuna

Wafix PP is a versatile, uncomplicated solution for your indoor drain. You can install the impact-resistant pipes even in frost. Their excellent chemical resistance makes them ideal for embedment applications.

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											

Results

Environmental impact	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
GWP-total	kg CO2 eq	2.31E-1	8.64E-3	6.16E-3	2.46E-1	2.71E-3	8.67E-2	1.27E-3	-1.29E-1	2.07E-1
GWP-f	kg CO2 eq	2.30E-1	8.64E-3	4.46E-3	2.43E-1	2.70E-3	8.68E-2	1.27E-3	-1.29E-1	2.05E-1
GWP-b	kg CO2 eq	8.83E-4	2.64E-6	1.17E-3	2.06E-3	1.64E-6	-1.08E-4	1.11E-6	-4.43E-4	1.51E-3
GWP-luluc	kg CO2 eq	6.59E-5	3.67E-6	5.19E-4	5.88E-4	9.57E-7	1.52E-5	2.19E-8	-2.44E-5	5.80E-4
ODP	kg CFC11 eq	6.00E-9	1.87E-9	5.06E-10	8.38E-9	6.23E-10	1.99E-9	3.20E-11	-4.96E-9	6.06E-9
AP	mol H+ eq	8.66E-4	1.03E-4	3.78E-5	1.01E-3	1.54E-5	8.42E-5	7.64E-7	-3.56E-4	7.51E-4
EP-fw	kg P eq	3.50E-6	7.48E-8	8.24E-8	3.66E-6	2.23E-8	4.40E-7	1.00E-9	-1.39E-6	2.74E-6
EP-m	kg N eq	1.43E-4	2.97E-5	1.12E-5	1.84E-4	5.51E-6	2.46E-5	4.95E-7	-6.32E-5	1.51E-4
EP-T	mol N eq	1.62E-3	3.29E-4	1.23E-4	2.08E-3	6.07E-5	2.71E-4	3.10E-6	-6.99E-4	1.71E-3
POCP	kg NMVOC eq	7.15E-4	8.91E-5	3.41E-5	8.39E-4	1.74E-5	8.56E-5	1.16E-6	-3.22E-4	6.21E-4
ADP-mm	kg Sb eq	5.43E-6	1.82E-7	1.34E-7	5.75E-6	7.00E-8	3.31E-7	7.72E-10	-8.32E-7	5.32E-6
ADP-f	MJ	7.77E+0	1.26E-1	4.43E-2	7.94E+0	4.15E-2	2.65E-1	2.34E-3	-4.02E+0	4.23E+0
WDP	m3 depriv.	1.61E-1	3.93E-4	2.86E-2	1.90E-1	1.27E-4	5.19E-3	1.26E-5	-6.89E-2	1.27E-1
PM	disease inc.	7.68E-9	6.58E-10	6.38E-10	8.97E-9	2.44E-10	1.38E-9	1.61E-11	-2.97E-9	7.65E-9
IR	kBq U-235 eq	4.55E-3	5.30E-4	1.32E-4	5.21E-3	1.81E-4	7.99E-4	1.08E-5	-1.85E-3	4.35E-3
ETP-fw	CTUe	1.49E+0	1.06E-1	1.24E-1	1.72E+0	3.37E-2	3.05E-1	1.96E-3	-4.93E-1	1.57E+0
HTP-c	CTUh	6.02E-11	3.95E-12	4.88E-12	6.90E-11	1.20E-12	3.76E-11	5.77E-14	-2.12E-11	8.67E-11
HTP-nc	CTUh	1.63E-9	1.11E-10	1.33E-10	1.88E-9	4.02E-11	4.54E-10	1.26E-12	-5.96E-10	1.77E-9
SQP	Pt	3.63E-1	9.06E-2	5.83E-3	4.59E-1	3.55E-2	2.12E-1	5.99E-3	-1.08E-1	6.05E-1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	2.17E-1	1.42E-3	2.80E-1	4.98E-1	5.96E-4	1.30E-2	9.00E-5	-4.93E-2	4.63E-1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	2.17E-1	1.42E-3	2.80E-1	4.98E-1	5.96E-4	1.30E-2	9.00E-5	-4.93E-2	4.63E-1
PENRE	MJ	8.34E+0	1.34E-1	4.71E-2	8.52E+0	4.41E-2	2.82E-1	2.48E-3	-4.33E+0	4.51E+0
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	8.34E+0	1.34E-1	4.71E-2	8.52E+0	4.41E-2	2.82E-1	2.48E-3	-4.33E+0	4.51E+0
PET	MJ	8.55E+0	1.35E-1	3.27E-1	9.01E+0	4.47E-2	2.95E-1	2.57E-3	-4.38E+0	4.97E+0
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	2.59E-3	1.35E-5	6.79E-4	3.28E-3	4.70E-6	1.54E-4	2.88E-6	-1.03E-3	2.41E-3

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	1.16E-6	2.77E-7	6.75E-8	1.50E-6	1.06E-7	4.34E-7	2.82E-9	-9.74E-7	1.07E-6
NHWD	kg	1.13E-2	6.43E-3	2.07E-4	1.79E-2	2.57E-3	1.33E-2	1.03E-2	-3.07E-3	4.10E-2
RWD	kg	4.22E-6	8.36E-7	1.88E-7	5.24E-6	2.82E-7	1.01E-6	1.52E-8	-1.67E-6	4.88E-6
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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