

Environmental Profile

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

Ecochain v3.5.64



Product: 3062137 - Wafix PP ML Pipe RD 160 SN4 L=2 S/CH
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					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	7.18E+0	7.53E-1	3.39E-1	8.27E+0	1.31E-1	3.05E+0	4.36E-2	-4.27E+0	7.23E+0
GWP-f	kg CO2 eq	7.15E+0	7.52E-1	2.46E-1	8.14E+0	1.31E-1	3.05E+0	4.36E-2	-4.25E+0	7.11E+0
GWP-b	kg CO2 eq	2.43E-2	3.01E-4	6.47E-2	8.93E-2	7.96E-5	6.94E-3	3.95E-5	-1.49E-2	8.15E-2
GWP-luluc	kg CO2 eq	9.16E-3	2.93E-4	2.86E-2	3.80E-2	4.64E-5	7.37E-4	8.63E-7	-8.26E-4	3.80E-2
ODP	kg CFC11 eq	1.64E-7	1.65E-7	2.78E-8	3.57E-7	3.02E-8	9.66E-8	1.39E-9	-1.57E-7	3.28E-7
AP	mol H+ eq	2.63E-2	6.19E-3	2.08E-3	3.46E-2	7.46E-4	3.97E-3	3.21E-5	-1.21E-2	2.72E-2
EP-fw	kg P eq	1.14E-4	7.16E-6	4.54E-6	1.25E-4	1.08E-6	2.13E-5	3.85E-8	-4.86E-5	9.92E-5
EP-m	kg N eq	4.46E-3	1.95E-3	6.17E-4	7.03E-3	2.67E-4	1.14E-3	1.91E-5	-2.14E-3	6.31E-3
EP-T	mol N eq	5.02E-2	2.16E-2	6.77E-3	7.86E-2	2.94E-3	1.25E-2	1.31E-4	-2.37E-2	7.04E-2
POCP	kg NMVOC eq	2.25E-2	5.99E-3	1.88E-3	3.03E-2	8.41E-4	3.98E-3	4.67E-5	-1.09E-2	2.43E-2
ADP-mm	kg Sb eq	1.42E-4	1.78E-5	7.40E-6	1.67E-4	3.39E-6	1.61E-5	3.17E-8	-2.81E-5	1.58E-4
ADP-f	MJ	2.49E+2	1.12E+1	2.44E+0	2.63E+2	2.01E+0	1.29E+1	9.96E-2	-1.34E+2	1.44E+2
WDP	m3 depriv.	5.01E+0	3.81E-2	1.57E+0	6.62E+0	6.17E-3	2.47E-1	4.78E-4	-2.34E+0	4.53E+0
PM	disease inc.	2.35E-7	6.35E-8	3.51E-8	3.34E-7	1.18E-8	6.67E-8	6.76E-10	-1.02E-7	3.11E-7
IR	kBq U-235 eq	1.44E-1	4.70E-2	7.26E-3	1.98E-1	8.79E-3	3.88E-2	4.55E-4	-6.33E-2	1.83E-1
ETP-fw	CTUe	4.79E+1	9.75E+0	6.81E+0	6.44E+1	1.63E+0	1.44E+1	7.74E-2	-1.91E+1	6.15E+1
HTP-c	CTUh	2.28E-9	3.34E-10	2.69E-10	2.88E-9	5.81E-11	1.64E-9	2.18E-12	-7.14E-10	3.87E-9
HTP-nc	CTUh	5.51E-8	1.05E-8	7.33E-9	7.29E-8	1.95E-9	2.09E-8	4.88E-11	-1.57E-8	8.01E-8
SQP	Pt	1.14E+1	9.07E+0	3.21E-1	2.08E+1	1.72E+0	1.04E+1	2.48E-1	-3.73E+0	2.94E+1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	7.02E+0	1.35E-1	1.54E+1	2.26E+1	2.89E-2	6.31E-1	3.36E-3	-1.70E+0	2.15E+1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	7.02E+0	1.35E-1	1.54E+1	2.26E+1	2.89E-2	6.31E-1	3.36E-3	-1.70E+0	2.15E+1
PENRE	MJ	2.68E+2	1.19E+1	2.59E+0	2.82E+2	2.14E+0	1.37E+1	1.06E-1	-1.44E+2	1.54E+2
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	2.68E+2	1.19E+1	2.59E+0	2.82E+2	2.14E+0	1.37E+1	1.06E-1	-1.44E+2	1.54E+2
PET	MJ	2.75E+2	1.20E+1	1.80E+1	3.05E+2	2.16E+0	1.43E+1	1.09E-1	-1.46E+2	1.76E+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	7.77E-2	1.30E-3	3.74E-2	1.16E-1	2.28E-4	7.17E-3	1.22E-4	-3.55E-2	8.85E-2

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	3.84E-5	2.69E-5	3.72E-6	6.91E-5	5.14E-6	2.08E-5	1.18E-7	-3.34E-5	6.17E-5
NHWD	kg	3.56E-1	6.57E-1	1.14E-2	1.02E+0	1.25E-1	6.27E-1	4.98E-1	-1.06E-1	2.17E+0
RWD	kg	1.30E-4	7.39E-5	1.03E-5	2.14E-4	1.37E-5	4.93E-5	6.56E-7	-5.72E-5	2.21E-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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