

Environmental Profile

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

Ecochain v3.5.64



Product: 3062126 - Wafix PP Pipe BR 200 SN8 L=3
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

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	2.52E+1	2.37E+0	8.84E-1	2.85E+1	3.13E-1	1.00E+1	1.47E-1	-1.51E+1	2.38E+1
GWP-f	kg CO2 eq	2.51E+1	2.37E+0	6.41E-1	2.82E+1	3.13E-1	1.00E+1	1.47E-1	-1.51E+1	2.36E+1
GWP-b	kg CO2 eq	7.35E-2	1.08E-3	1.69E-1	2.43E-1	1.90E-4	-1.26E-2	1.28E-4	-5.07E-2	1.80E-1
GWP-luluc	kg CO2 eq	6.92E-3	8.74E-4	7.45E-2	8.23E-2	1.11E-4	1.76E-3	2.50E-6	-2.81E-3	8.14E-2
ODP	kg CFC11 eq	4.58E-7	5.22E-7	7.26E-8	1.05E-6	7.20E-8	2.31E-7	3.70E-9	-5.92E-7	7.68E-7
AP	mol H+ eq	9.01E-2	1.44E-2	5.43E-3	1.10E-1	1.78E-3	9.79E-3	8.81E-5	-4.13E-2	8.02E-2
EP-fw	kg P eq	3.85E-4	2.37E-5	1.18E-5	4.20E-4	2.57E-6	5.10E-5	1.15E-7	-1.62E-4	3.12E-4
EP-m	kg N eq	1.50E-2	4.99E-3	1.61E-3	2.16E-2	6.37E-4	2.87E-3	5.74E-5	-7.36E-3	1.78E-2
EP-T	mol N eq	1.69E-1	5.50E-2	1.77E-2	2.42E-1	7.02E-3	3.16E-2	3.58E-4	-8.14E-2	1.99E-1
POCP	kg NMVOC eq	7.75E-2	1.56E-2	4.90E-3	9.81E-2	2.01E-3	9.95E-3	1.34E-4	-3.75E-2	7.27E-2
ADP-mm	kg Sb eq	3.36E-4	5.95E-5	1.93E-5	4.15E-4	8.09E-6	3.84E-5	8.88E-8	-9.65E-5	3.65E-4
ADP-f	MJ	8.87E+2	3.56E+1	6.37E+0	9.29E+2	4.80E+0	3.07E+1	2.70E-1	-4.67E+2	4.97E+2
WDP	m3 depriv.	1.75E+1	1.27E-1	4.11E+0	2.18E+1	1.47E-2	6.01E-1	1.35E-3	-7.97E+0	1.44E+1
PM	disease inc.	7.87E-7	2.11E-7	9.16E-8	1.09E-6	2.82E-8	1.60E-7	1.85E-9	-3.45E-7	9.35E-7
IR	kBq U-235 eq	4.61E-1	1.49E-1	1.89E-2	6.29E-1	2.10E-2	9.27E-2	1.25E-3	-2.15E-1	5.30E-1
ETP-fw	CTUe	1.41E+2	3.17E+1	1.78E+1	1.91E+2	3.90E+0	3.48E+1	2.26E-1	-5.83E+1	1.71E+2
HTP-c	CTUh	6.34E-9	1.03E-9	7.02E-10	8.08E-9	1.39E-10	4.28E-9	6.58E-12	-2.46E-9	1.00E-8
HTP-nc	CTUh	1.68E-7	3.46E-8	1.91E-8	2.21E-7	4.64E-9	5.23E-8	1.45E-10	-6.28E-8	2.16E-7
SQP	Pt	3.45E+1	3.07E+1	8.38E-1	6.60E+1	4.10E+0	2.45E+1	6.92E-1	-1.26E+1	8.28E+1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	1.34E+1	4.44E-1	4.02E+1	5.41E+1	6.88E-2	1.51E+0	1.05E-2	-5.71E+0	5.00E+1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	1.34E+1	4.44E-1	4.02E+1	5.41E+1	6.88E-2	1.51E+0	1.05E-2	-5.71E+0	5.00E+1
PENRE	MJ	9.52E+2	3.78E+1	6.77E+0	9.96E+2	5.09E+0	3.27E+1	2.86E-1	-5.04E+2	5.31E+2
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	9.52E+2	3.78E+1	6.77E+0	9.96E+2	5.09E+0	3.27E+1	2.86E-1	-5.04E+2	5.31E+2
PET	MJ	9.65E+2	3.83E+1	4.69E+1	1.05E+3	5.16E+0	3.42E+1	2.97E-1	-5.10E+2	5.80E+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	2.69E-1	4.32E-3	9.75E-2	3.71E-1	5.43E-4	1.78E-2	3.33E-4	-1.19E-1	2.71E-1

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	1.10E-4	8.98E-5	9.70E-6	2.09E-4	1.23E-5	5.02E-5	3.25E-7	-1.20E-4	1.52E-4
NHWD	kg	1.02E+0	2.24E+0	2.97E-2	3.29E+0	2.97E-1	1.55E+0	1.19E+0	-3.59E-1	5.97E+0
RWD	kg	3.99E-4	2.34E-4	2.70E-5	6.60E-4	3.26E-5	1.18E-4	1.76E-6	-1.95E-4	6.17E-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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