

Environmental Profile

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

Ecochain v3.5.64



Product: 3062127 - Wafix PP Pipe BR 200 SN8 L=6
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	4.91E+1	4.72E+0	1.77E+0	5.56E+1	6.25E-1	1.91E+1	2.94E-1	-2.96E+1	4.59E+1
GWP-f	kg CO2 eq	4.89E+1	4.72E+0	1.28E+0	5.49E+1	6.24E-1	1.91E+1	2.94E-1	-2.95E+1	4.54E+1
GWP-b	kg CO2 eq	1.82E-1	2.14E-3	3.37E-1	5.21E-1	3.79E-4	-2.51E-2	2.56E-4	-1.01E-1	3.96E-1
GWP-luluc	kg CO2 eq	1.31E-2	1.74E-3	1.49E-1	1.64E-1	2.21E-4	3.51E-3	5.00E-6	-5.58E-3	1.62E-1
ODP	kg CFC11 eq	8.80E-7	1.04E-6	1.45E-7	2.07E-6	1.44E-7	4.59E-7	7.38E-9	-1.12E-6	1.55E-6
AP	mol H+ eq	1.74E-1	2.87E-2	1.08E-2	2.14E-1	3.55E-3	1.94E-2	1.76E-4	-8.20E-2	1.55E-1
EP-fw	kg P eq	7.34E-4	4.73E-5	2.36E-5	8.05E-4	5.14E-6	1.01E-4	2.29E-7	-3.22E-4	5.90E-4
EP-m	kg N eq	2.90E-2	9.94E-3	3.21E-3	4.21E-2	1.27E-3	5.65E-3	1.15E-4	-1.45E-2	3.46E-2
EP-T	mol N eq	3.27E-1	1.10E-1	3.53E-2	4.72E-1	1.40E-2	6.22E-2	7.15E-4	-1.61E-1	3.88E-1
POCP	kg NMVOC eq	1.51E-1	3.12E-2	9.79E-3	1.92E-1	4.01E-3	1.96E-2	2.68E-4	-7.43E-2	1.41E-1
ADP-mm	kg Sb eq	6.59E-4	1.19E-4	3.85E-5	8.16E-4	1.61E-5	7.63E-5	1.77E-7	-1.92E-4	7.17E-4
ADP-f	MJ	1.73E+3	7.10E+1	1.27E+1	1.82E+3	9.58E+0	6.11E+1	5.39E-1	-9.23E+2	9.66E+2
WDP	m3 depriv.	3.42E+1	2.53E-1	8.20E+0	4.27E+1	2.94E-2	1.20E+0	2.69E-3	-1.59E+1	2.80E+1
PM	disease inc.	1.53E-6	4.21E-7	1.83E-7	2.13E-6	5.63E-8	3.18E-7	3.70E-9	-6.86E-7	1.82E-6
IR	kBq U-235 eq	8.94E-1	2.98E-1	3.78E-2	1.23E+0	4.19E-2	1.84E-1	2.50E-3	-4.25E-1	1.03E+0
ETP-fw	CTUe	2.67E+2	6.32E+1	3.55E+1	3.65E+2	7.78E+0	6.91E+1	4.51E-1	-1.16E+2	3.27E+2
HTP-c	CTUh	1.23E-8	2.06E-9	1.40E-9	1.58E-8	2.77E-10	8.41E-9	1.31E-11	-4.87E-9	1.96E-8
HTP-nc	CTUh	3.25E-7	6.90E-8	3.82E-8	4.32E-7	9.27E-9	1.03E-7	2.90E-10	-1.25E-7	4.20E-7
SQP	Pt	6.35E+1	6.12E+1	1.67E+0	1.26E+2	8.20E+0	4.88E+1	1.38E+0	-2.48E+1	1.60E+2
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	2.56E+1	8.85E-1	8.02E+1	1.07E+2	1.37E-1	3.01E+0	2.09E-2	-1.14E+1	9.85E+1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	2.56E+1	8.85E-1	8.02E+1	1.07E+2	1.37E-1	3.01E+0	2.09E-2	-1.14E+1	9.85E+1
PENRE	MJ	1.86E+3	7.54E+1	1.35E+1	1.95E+3	1.02E+1	6.51E+1	5.71E-1	-9.95E+2	1.03E+3
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	1.86E+3	7.54E+1	1.35E+1	1.95E+3	1.02E+1	6.51E+1	5.71E-1	-9.95E+2	1.03E+3
PET	MJ	1.89E+3	7.63E+1	9.37E+1	2.06E+3	1.03E+1	6.81E+1	5.92E-1	-1.01E+3	1.13E+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	5.19E-1	8.61E-3	1.95E-1	7.23E-1	1.08E-3	3.53E-2	6.64E-4	-2.38E-1	5.22E-1

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	2.13E-4	1.79E-4	1.94E-5	4.11E-4	2.45E-5	9.95E-5	6.49E-7	-2.28E-4	3.07E-4
NHWD	kg	1.94E+0	4.47E+0	5.94E-2	6.47E+0	5.94E-1	3.04E+0	2.37E+0	-7.13E-1	1.18E+1
RWD	kg	7.73E-4	4.67E-4	5.38E-5	1.29E-3	6.51E-5	2.34E-4	3.52E-6	-3.85E-4	1.21E-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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