

Environmental Profile

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

Ecochain v3.5.64



Product: 3062143 - Wafix PP ML Pipe RD 110 SN8 L=6 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 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]

Statement of Confidentiality

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Results

Environmental impact	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
GWP-total	kg CO2 eq	1.11E+1	1.23E+0	5.92E-1	1.30E+1	2.12E-1	4.86E+0	6.86E-2	-6.70E+0	1.14E+1
GWP-f	kg CO2 eq	1.11E+1	1.23E+0	4.30E-1	1.28E+1	2.12E-1	4.84E+0	6.86E-2	-6.68E+0	1.12E+1
GWP-b	kg CO2 eq	3.41E-2	4.88E-4	1.13E-1	1.48E-1	1.29E-4	1.11E-2	6.23E-5	-2.35E-2	1.35E-1
GWP-luluc	kg CO2 eq	1.45E-2	4.80E-4	4.99E-2	6.49E-2	7.49E-5	1.19E-3	1.38E-6	-1.31E-3	6.49E-2
ODP	kg CFC11 eq	2.25E-7	2.69E-7	4.87E-8	5.42E-7	4.88E-8	1.56E-7	2.24E-9	-2.47E-7	5.02E-7
AP	mol H+ eq	4.05E-2	1.03E-2	3.64E-3	5.44E-2	1.21E-3	6.40E-3	5.13E-5	-1.90E-2	4.30E-2
EP-fw	kg P eq	1.73E-4	1.17E-5	7.93E-6	1.92E-4	1.74E-6	3.43E-5	6.13E-8	-7.62E-5	1.52E-4
EP-m	kg N eq	6.80E-3	3.23E-3	1.08E-3	1.11E-2	4.32E-4	1.83E-3	3.03E-5	-3.35E-3	1.00E-2
EP-T	mol N eq	7.67E-2	3.57E-2	1.18E-2	1.24E-1	4.76E-3	2.01E-2	2.09E-4	-3.72E-2	1.12E-1
POCP	kg NMVOC eq	3.45E-2	9.89E-3	3.29E-3	4.77E-2	1.36E-3	6.41E-3	7.44E-5	-1.71E-2	3.84E-2
ADP-mm	kg Sb eq	1.91E-4	2.90E-5	1.29E-5	2.33E-4	5.48E-6	2.59E-5	5.07E-8	-4.41E-5	2.20E-4
ADP-f	MJ	3.90E+2	1.83E+1	4.27E+0	4.13E+2	3.25E+0	2.08E+1	1.60E-1	-2.10E+2	2.27E+2
WDP	m3 depriv.	7.84E+0	6.20E-2	2.75E+0	1.07E+1	9.97E-3	3.99E-1	7.67E-4	-3.69E+0	7.38E+0
PM	disease inc.	3.57E-7	1.03E-7	6.14E-8	5.22E-7	1.91E-8	1.08E-7	1.08E-9	-1.59E-7	4.90E-7
IR	kBq U-235 eq	2.14E-1	7.67E-2	1.27E-2	3.03E-1	1.42E-2	6.27E-2	7.29E-4	-1.00E-1	2.81E-1
ETP-fw	CTUe	7.09E+1	1.59E+1	1.19E+1	9.87E+1	2.64E+0	2.32E+1	1.23E-1	-2.99E+1	9.48E+1
HTP-c	CTUh	3.23E-9	5.47E-10	4.70E-10	4.25E-9	9.39E-11	2.64E-9	3.46E-12	-1.12E-9	5.87E-9
HTP-nc	CTUh	8.04E-8	1.71E-8	1.28E-8	1.10E-7	3.15E-9	3.37E-8	7.76E-11	-2.67E-8	1.21E-7
SQP	Pt	1.66E+1	1.48E+1	5.61E-1	3.19E+1	2.78E+0	1.68E+1	3.96E-1	-5.86E+0	4.60E+1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	7.15E+0	2.20E-1	2.69E+1	3.43E+1	4.66E-2	1.02E+0	5.32E-3	-2.68E+0	3.27E+1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	7.15E+0	2.20E-1	2.69E+1	3.43E+1	4.66E-2	1.02E+0	5.32E-3	-2.68E+0	3.27E+1
PENRE	MJ	4.18E+2	1.94E+1	4.53E+0	4.42E+2	3.45E+0	2.21E+1	1.69E-1	-2.26E+2	2.42E+2
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	4.18E+2	1.94E+1	4.53E+0	4.42E+2	3.45E+0	2.21E+1	1.69E-1	-2.26E+2	2.42E+2
PET	MJ	4.26E+2	1.96E+1	3.15E+1	4.77E+2	3.50E+0	2.31E+1	1.75E-1	-2.29E+2	2.75E+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	1.21E-1	2.12E-3	6.53E-2	1.88E-1	3.68E-4	1.16E-2	1.95E-4	-5.58E-2	1.45E-1

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	5.61E-5	4.39E-5	6.50E-6	1.06E-4	8.31E-6	3.36E-5	1.89E-7	-5.13E-5	9.73E-5
NHWD	kg	5.01E-1	1.07E+0	1.99E-2	1.59E+0	2.01E-1	1.01E+0	8.05E-1	-1.65E-1	3.44E+0
RWD	kg	1.88E-4	1.21E-4	1.81E-5	3.26E-4	2.21E-5	7.97E-5	1.05E-6	-9.01E-5	3.39E-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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