

Environmental Profile

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

Ecochain v3.5.64



Product: 3061923 - Wafix PP Pipe WT 40 L=0,5 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	2.91E-1	1.10E-2	7.78E-3	3.09E-1	3.44E-3	1.11E-1	1.62E-3	-1.65E-1	2.60E-1
GWP-f	kg CO2 eq	2.90E-1	1.10E-2	5.64E-3	3.06E-1	3.44E-3	1.11E-1	1.62E-3	-1.64E-1	2.58E-1
GWP-b	kg CO2 eq	1.08E-3	3.36E-6	1.48E-3	2.57E-3	2.09E-6	-1.38E-4	1.41E-6	-5.64E-4	1.87E-3
GWP-luluc	kg CO2 eq	8.30E-5	4.66E-6	6.56E-4	7.44E-4	1.22E-6	1.94E-5	2.80E-8	-3.10E-5	7.33E-4
ODP	kg CFC11 eq	7.75E-9	2.38E-9	6.39E-10	1.08E-8	7.93E-10	2.54E-9	4.07E-11	-6.33E-9	7.81E-9
AP	mol H+ eq	1.09E-3	1.31E-4	4.78E-5	1.27E-3	1.96E-5	1.07E-4	9.73E-7	-4.53E-4	9.42E-4
EP-fw	kg P eq	4.42E-6	9.52E-8	1.04E-7	4.62E-6	2.83E-8	5.60E-7	1.28E-9	-1.76E-6	3.44E-6
EP-m	kg N eq	1.79E-4	3.77E-5	1.42E-5	2.31E-4	7.01E-6	3.14E-5	6.29E-7	-8.04E-5	1.90E-4
EP-T	mol N eq	2.04E-3	4.17E-4	1.55E-4	2.61E-3	7.73E-5	3.46E-4	3.95E-6	-8.90E-4	2.15E-3
POCP	kg NMVOC eq	9.01E-4	1.13E-4	4.32E-5	1.06E-3	2.21E-5	1.09E-4	1.48E-6	-4.10E-4	7.80E-4
ADP-mm	kg Sb eq	7.25E-6	2.32E-7	1.70E-7	7.65E-6	8.90E-8	4.21E-7	9.84E-10	-1.06E-6	7.10E-6
ADP-f	MJ	9.78E+0	1.60E-1	5.61E-2	9.99E+0	5.28E-2	3.37E-1	2.97E-3	-5.12E+0	5.27E+0
WDP	m3 depriv.	2.03E-1	5.00E-4	3.61E-2	2.39E-1	1.62E-4	6.60E-3	1.65E-5	-8.77E-2	1.59E-1
PM	disease inc.	9.68E-9	8.38E-10	8.06E-10	1.13E-8	3.11E-10	1.76E-9	2.04E-11	-3.78E-9	9.64E-9
IR	kBq U-235 eq	5.81E-3	6.73E-4	1.67E-4	6.65E-3	2.31E-4	1.02E-3	1.38E-5	-2.36E-3	5.56E-3
ETP-fw	CTUe	1.88E+0	1.34E-1	1.56E-1	2.17E+0	4.29E-2	3.88E-1	2.49E-3	-6.27E-1	1.98E+0
HTP-c	CTUh	7.57E-11	5.02E-12	6.17E-12	8.69E-11	1.53E-12	4.81E-11	7.38E-14	-2.69E-11	1.10E-10
HTP-nc	CTUh	2.05E-9	1.41E-10	1.68E-10	2.36E-9	5.11E-11	5.79E-10	1.61E-12	-7.58E-10	2.23E-9
SQP	Pt	4.61E-1	1.15E-1	7.37E-3	5.84E-1	4.52E-2	2.69E-1	7.62E-3	-1.37E-1	7.69E-1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	2.82E-1	1.80E-3	3.54E-1	6.37E-1	7.58E-4	1.66E-2	1.14E-4	-6.27E-2	5.92E-1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	2.82E-1	1.80E-3	3.54E-1	6.37E-1	7.58E-4	1.66E-2	1.14E-4	-6.27E-2	5.92E-1
PENRE	MJ	1.05E+1	1.70E-1	5.95E-2	1.07E+1	5.61E-2	3.59E-1	3.16E-3	-5.52E+0	5.62E+0
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	1.05E+1	1.70E-1	5.95E-2	1.07E+1	5.61E-2	3.59E-1	3.16E-3	-5.52E+0	5.62E+0
PET	MJ	1.08E+1	1.72E-1	4.13E-1	1.14E+1	5.68E-2	3.76E-1	3.27E-3	-5.58E+0	6.21E+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	3.27E-3	1.71E-5	8.58E-4	4.14E-3	5.98E-6	1.96E-4	3.66E-6	-1.32E-3	3.03E-3

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	1.46E-6	3.53E-7	8.54E-8	1.89E-6	1.35E-7	5.52E-7	3.60E-9	-1.24E-6	1.34E-6
NHWD	kg	1.40E-2	8.19E-3	2.62E-4	2.25E-2	3.27E-3	1.70E-2	1.31E-2	-3.91E-3	5.19E-2
RWD	kg	5.43E-6	1.06E-6	2.37E-7	6.73E-6	3.59E-7	1.29E-6	1.94E-8	-2.13E-6	6.27E-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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