

Environmental Profile

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

Ecochain v3.5.64



Product: 3061924 - Wafix PP Pipe WT 40 L=1 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	5.36E-1	1.96E-2	1.55E-2	5.71E-1	6.34E-3	2.11E-1	2.99E-3	-3.08E-1	4.82E-1
GWP-f	kg CO2 eq	5.34E-1	1.96E-2	1.12E-2	5.65E-1	6.34E-3	2.11E-1	2.99E-3	-3.07E-1	4.78E-1
GWP-b	kg CO2 eq	1.77E-3	5.67E-6	2.96E-3	4.73E-3	3.85E-6	-2.54E-4	2.60E-6	-1.04E-3	3.44E-3
GWP-luluc	kg CO2 eq	1.56E-4	8.45E-6	1.31E-3	1.47E-3	2.24E-6	3.58E-5	5.15E-8	-5.74E-5	1.45E-3
ODP	kg CFC11 eq	1.26E-8	4.24E-9	1.27E-9	1.81E-8	1.46E-9	4.69E-9	7.50E-11	-1.22E-8	1.21E-8
AP	mol H+ eq	1.98E-3	2.47E-4	9.52E-5	2.32E-3	3.61E-5	1.99E-4	1.79E-6	-8.39E-4	1.72E-3
EP-fw	kg P eq	8.24E-6	1.67E-7	2.07E-7	8.61E-6	5.21E-8	1.03E-6	2.35E-9	-3.26E-6	6.45E-6
EP-m	kg N eq	3.27E-4	7.03E-5	2.82E-5	4.25E-4	1.29E-5	5.83E-5	1.16E-6	-1.49E-4	3.48E-4
EP-T	mol N eq	3.71E-3	7.79E-4	3.09E-4	4.79E-3	1.42E-4	6.41E-4	7.27E-6	-1.65E-3	3.93E-3
POCP	kg NMVOC eq	1.66E-3	2.10E-4	8.60E-5	1.95E-3	4.07E-5	2.02E-4	2.73E-6	-7.59E-4	1.44E-3
ADP-mm	kg Sb eq	1.06E-5	4.05E-7	3.38E-7	1.13E-5	1.64E-7	7.77E-7	1.81E-9	-1.95E-6	1.03E-5
ADP-f	MJ	1.82E+1	2.85E-1	1.12E-1	1.86E+1	9.73E-2	6.22E-1	5.47E-3	-9.51E+0	9.77E+0
WDP	m3 depriv.	3.72E-1	8.76E-4	7.19E-2	4.44E-1	2.99E-4	1.22E-2	2.98E-5	-1.62E-1	2.95E-1
PM	disease inc.	1.74E-8	1.47E-9	1.61E-9	2.04E-8	5.72E-10	3.25E-9	3.76E-11	-6.97E-9	1.73E-8
IR	kBq U-235 eq	1.04E-2	1.20E-3	3.32E-4	1.19E-2	4.25E-4	1.88E-3	2.53E-5	-4.37E-3	9.90E-3
ETP-fw	CTUe	3.32E+0	2.37E-1	3.11E-1	3.87E+0	7.90E-2	7.15E-1	4.58E-3	-1.16E+0	3.51E+0
HTP-c	CTUh	1.32E-10	9.01E-12	1.23E-11	1.54E-10	2.81E-12	8.91E-11	1.35E-13	-5.00E-11	1.96E-10
HTP-nc	CTUh	3.62E-9	2.47E-10	3.35E-10	4.21E-9	9.42E-11	1.07E-9	2.96E-12	-1.40E-9	3.97E-9
SQP	Pt	8.05E-1	2.01E-1	1.47E-2	1.02E+0	8.32E-2	4.97E-1	1.40E-2	-2.55E-1	1.36E+0
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	4.15E-1	3.17E-3	7.04E-1	1.12E+0	1.40E-3	3.06E-2	2.11E-4	-1.16E-1	1.04E+0
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	4.15E-1	3.17E-3	7.04E-1	1.12E+0	1.40E-3	3.06E-2	2.11E-4	-1.16E-1	1.04E+0
PENRE	MJ	1.95E+1	3.02E-1	1.19E-1	1.99E+1	1.03E-1	6.63E-1	5.81E-3	-1.03E+1	1.04E+1
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	1.95E+1	3.02E-1	1.19E-1	1.99E+1	1.03E-1	6.63E-1	5.81E-3	-1.03E+1	1.04E+1
PET	MJ	1.99E+1	3.05E-1	8.23E-1	2.10E+1	1.05E-1	6.94E-1	6.02E-3	-1.04E+1	1.15E+1
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	5.93E-3	3.00E-5	1.71E-3	7.67E-3	1.10E-5	3.62E-4	6.74E-6	-2.43E-3	5.62E-3

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	2.65E-6	6.17E-7	1.70E-7	3.43E-6	2.49E-7	1.02E-6	6.62E-9	-2.39E-6	2.32E-6
NHWD	kg	2.39E-2	1.42E-2	5.21E-4	3.86E-2	6.03E-3	3.16E-2	2.41E-2	-7.23E-3	9.31E-2
RWD	kg	9.41E-6	1.89E-6	4.72E-7	1.18E-5	6.62E-7	2.38E-6	3.57E-8	-3.96E-6	1.09E-5
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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