

Environmental Profile

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

Ecochain v3.5.64



Product: 3061951 - Wafix PP Pipe GY 75 L=1,5 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]

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Results

Environmental impact	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
GWP-total	kg CO2 eq	1.82E+0	6.95E-2	5.68E-2	1.95E+0	2.26E-2	6.87E-1	1.06E-2	-1.08E+0	1.59E+0
GWP-f	kg CO2 eq	1.81E+0	6.95E-2	4.12E-2	1.92E+0	2.25E-2	6.88E-1	1.06E-2	-1.07E+0	1.57E+0
GWP-b	kg CO2 eq	7.74E-3	1.97E-5	1.08E-2	1.86E-2	1.37E-5	-9.17E-4	9.26E-6	-3.59E-3	1.41E-2
GWP-luluc	kg CO2 eq	5.21E-4	3.01E-5	4.79E-3	5.34E-3	7.98E-6	1.27E-4	1.81E-7	-1.97E-4	5.28E-3
ODP	kg CFC11 eq	3.90E-8	1.50E-8	4.67E-9	5.87E-8	5.20E-9	1.66E-8	2.67E-10	-4.08E-8	4.00E-8
AP	mol H+ eq	6.58E-3	8.90E-4	3.49E-4	7.82E-3	1.28E-4	7.01E-4	6.36E-6	-2.99E-3	5.67E-3
EP-fw	kg P eq	2.89E-5	5.88E-7	7.60E-7	3.02E-5	1.86E-7	3.68E-6	8.29E-9	-1.18E-5	2.23E-5
EP-m	kg N eq	1.10E-3	2.53E-4	1.03E-4	1.46E-3	4.60E-5	2.04E-4	4.14E-6	-5.30E-4	1.18E-3
EP-T	mol N eq	1.24E-2	2.80E-3	1.13E-3	1.63E-2	5.07E-4	2.25E-3	2.58E-5	-5.86E-3	1.32E-2
POCP	kg NMVOC eq	5.67E-3	7.54E-4	3.15E-4	6.74E-3	1.45E-4	7.11E-4	9.69E-6	-2.72E-3	4.89E-3
ADP-mm	kg Sb eq	2.87E-5	1.42E-6	1.24E-6	3.13E-5	5.83E-7	2.77E-6	6.41E-9	-6.95E-6	2.77E-5
ADP-f	MJ	6.33E+1	1.01E+0	4.09E-1	6.47E+1	3.46E-1	2.21E+0	1.95E-2	-3.34E+1	3.39E+1
WDP	m3 depriv.	1.25E+0	3.08E-3	2.64E-1	1.52E+0	1.06E-3	4.32E-2	9.77E-5	-5.74E-1	9.86E-1
PM	disease inc.	5.83E-8	5.17E-9	5.89E-9	6.93E-8	2.04E-9	1.15E-8	1.34E-10	-2.51E-8	5.79E-8
IR	kBq U-235 eq	3.57E-2	4.24E-3	1.22E-3	4.12E-2	1.51E-3	6.68E-3	9.03E-5	-1.53E-2	3.42E-2
ETP-fw	CTUe	1.10E+1	8.38E-1	1.14E+0	1.30E+1	2.81E-1	2.51E+0	1.63E-2	-4.37E+0	1.14E+1
HTP-c	CTUh	5.84E-10	3.20E-11	4.51E-11	6.61E-10	1.00E-11	3.03E-10	4.75E-13	-1.77E-10	7.98E-10
HTP-nc	CTUh	1.38E-8	8.71E-10	1.23E-9	1.59E-8	3.35E-10	3.75E-9	1.05E-11	-3.40E-9	1.66E-8
SQP	Pt	2.53E+0	7.04E-1	5.38E-2	3.28E+0	2.96E-1	1.77E+0	4.99E-2	-9.06E-1	4.49E+0
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	1.41E+0	1.12E-2	2.58E+0	4.00E+0	4.97E-3	1.09E-1	7.54E-4	-4.09E-1	3.70E+0
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	1.41E+0	1.12E-2	2.58E+0	4.00E+0	4.97E-3	1.09E-1	7.54E-4	-4.09E-1	3.70E+0
PENRE	MJ	6.79E+1	1.07E+0	4.35E-1	6.94E+1	3.68E-1	2.36E+0	2.06E-2	-3.60E+1	3.62E+1
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	6.79E+1	1.07E+0	4.35E-1	6.94E+1	3.68E-1	2.36E+0	2.06E-2	-3.60E+1	3.62E+1
PET	MJ	6.93E+1	1.08E+0	3.02E+0	7.34E+1	3.72E-1	2.46E+0	2.14E-2	-3.64E+1	3.99E+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	1.92E-2	1.06E-4	6.27E-3	2.56E-2	3.92E-5	1.28E-3	2.40E-5	-8.61E-3	1.83E-2

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	9.55E-6	2.17E-6	6.23E-7	1.23E-5	8.85E-7	3.61E-6	2.34E-8	-8.94E-6	7.92E-6
NHWD	kg	8.31E-2	4.97E-2	1.91E-3	1.35E-1	2.15E-2	1.10E-1	8.58E-2	-2.63E-2	3.25E-1
RWD	kg	3.17E-5	6.71E-6	1.73E-6	4.01E-5	2.35E-6	8.47E-6	1.27E-7	-1.39E-5	3.72E-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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