

Environmental Profile

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

Ecochain v3.5.64



Product: 3062150 - Wafix PP ML Pipe BR SN8 200 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]

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	3.92E+1	4.27E+0	2.12E+0	4.56E+1	7.31E-1	1.76E+1	2.35E-1	-2.35E+1	4.07E+1
GWP-f	kg CO2 eq	3.91E+1	4.27E+0	1.54E+0	4.49E+1	7.31E-1	1.76E+1	2.35E-1	-2.34E+1	4.00E+1
GWP-b	kg CO2 eq	7.62E-2	1.69E-3	4.05E-1	4.82E-1	4.44E-4	3.94E-2	2.14E-4	-8.11E-2	4.41E-1
GWP-luluc	kg CO2 eq	5.11E-2	1.67E-3	1.79E-1	2.32E-1	2.59E-4	4.12E-3	4.73E-6	-4.53E-3	2.31E-1
ODP	kg CFC11 eq	7.59E-7	9.34E-7	1.74E-7	1.87E-6	1.68E-7	5.41E-7	7.70E-9	-9.02E-7	1.68E-6
AP	mol H+ eq	1.43E-1	3.58E-2	1.30E-2	1.91E-1	4.16E-3	2.22E-2	1.77E-4	-6.54E-2	1.53E-1
EP-fw	kg P eq	6.17E-4	4.05E-5	2.84E-5	6.86E-4	6.01E-6	1.19E-4	2.11E-7	-2.61E-4	5.49E-4
EP-m	kg N eq	2.40E-2	1.12E-2	3.86E-3	3.91E-2	1.49E-3	6.39E-3	1.04E-4	-1.16E-2	3.54E-2
EP-T	mol N eq	2.71E-1	1.24E-1	4.24E-2	4.37E-1	1.64E-2	7.03E-2	7.20E-4	-1.29E-1	3.96E-1
POCP	kg NMVOC eq	1.21E-1	3.44E-2	1.18E-2	1.67E-1	4.69E-3	2.23E-2	2.56E-4	-5.90E-2	1.36E-1
ADP-mm	kg Sb eq	6.28E-4	1.00E-4	4.63E-5	7.74E-4	1.89E-5	8.97E-5	1.74E-7	-1.51E-4	7.32E-4
ADP-f	MJ	1.37E+3	6.34E+1	1.53E+1	1.45E+3	1.12E+1	7.19E+1	5.50E-1	-7.29E+2	8.02E+2
WDP	m3 depriv.	2.76E+1	2.15E-1	9.85E+0	3.76E+1	3.44E-2	1.38E+0	2.64E-3	-1.27E+1	2.64E+1
PM	disease inc.	1.25E-6	3.59E-7	2.20E-7	1.83E-6	6.60E-8	3.73E-7	3.72E-9	-5.47E-7	1.73E-6
IR	kBq U-235 eq	7.42E-1	2.66E-1	4.54E-2	1.05E+0	4.90E-2	2.17E-1	2.51E-3	-3.46E-1	9.76E-1
ETP-fw	CTUe	2.52E+2	5.52E+1	4.26E+1	3.49E+2	9.11E+0	8.04E+1	4.24E-1	-1.03E+2	3.37E+2
HTP-c	CTUh	1.08E-8	1.90E-9	1.68E-9	1.44E-8	3.24E-10	9.25E-9	1.19E-11	-3.88E-9	2.01E-8
HTP-nc	CTUh	2.75E-7	5.93E-8	4.59E-8	3.81E-7	1.09E-8	1.17E-7	2.67E-10	-9.68E-8	4.12E-7
SQP	Pt	6.06E+1	5.12E+1	2.01E+0	1.14E+2	9.60E+0	5.80E+1	1.36E+0	-2.03E+1	1.62E+2
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	2.18E+1	7.61E-1	9.64E+1	1.19E+2	1.61E-1	3.52E+0	1.83E-2	-9.21E+0	1.13E+2
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	2.18E+1	7.61E-1	9.64E+1	1.19E+2	1.61E-1	3.52E+0	1.83E-2	-9.21E+0	1.13E+2
PENRE	MJ	1.47E+3	6.73E+1	1.62E+1	1.55E+3	1.19E+1	7.66E+1	5.83E-1	-7.86E+2	8.55E+2
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	1.47E+3	6.73E+1	1.62E+1	1.55E+3	1.19E+1	7.66E+1	5.83E-1	-7.86E+2	8.55E+2
PET	MJ	1.49E+3	6.81E+1	1.13E+2	1.67E+3	1.21E+1	8.01E+1	6.02E-1	-7.95E+2	9.69E+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	4.30E-1	7.34E-3	2.34E-1	6.71E-1	1.27E-3	4.01E-2	6.72E-4	-1.92E-1	5.21E-1

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	1.92E-4	1.52E-4	2.33E-5	3.67E-4	2.87E-5	1.16E-4	6.52E-7	-1.84E-4	3.29E-4
NHWD	kg	1.74E+0	3.70E+0	7.13E-2	5.51E+0	6.95E-1	3.55E+0	2.78E+0	-5.68E-1	1.20E+1
RWD	kg	6.44E-4	4.18E-4	6.46E-5	1.13E-3	7.63E-5	2.76E-4	3.62E-6	-3.13E-4	1.17E-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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