

Environmental Profile

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

Ecochain v3.5.64



Product: 3061936 - Wafix PP Pipe WT 32 L=2 w/socket
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	8.10E-1	2.92E-2	2.45E-2	8.63E-1	9.56E-3	3.26E-1	4.50E-3	-4.77E-1	7.26E-1
GWP-f	kg CO2 eq	8.08E-1	2.92E-2	1.78E-2	8.55E-1	9.55E-3	3.27E-1	4.50E-3	-4.76E-1	7.19E-1
GWP-b	kg CO2 eq	2.02E-3	8.15E-6	4.67E-3	6.70E-3	5.80E-6	-3.86E-4	3.91E-6	-1.54E-3	4.78E-3
GWP-luluc	kg CO2 eq	2.56E-4	1.27E-5	2.06E-3	2.33E-3	3.38E-6	5.41E-5	7.74E-8	-8.52E-5	2.30E-3
ODP	kg CFC11 eq	1.82E-8	6.28E-9	2.01E-9	2.65E-8	2.20E-9	7.13E-9	1.13E-10	-1.95E-8	1.64E-8
AP	mol H+ eq	3.00E-3	3.78E-4	1.50E-4	3.52E-3	5.44E-5	3.02E-4	2.70E-6	-1.28E-3	2.60E-3
EP-fw	kg P eq	1.36E-5	2.46E-7	3.28E-7	1.41E-5	7.86E-8	1.57E-6	3.54E-9	-5.04E-6	1.08E-5
EP-m	kg N eq	4.99E-4	1.07E-4	4.46E-5	6.51E-4	1.95E-5	8.89E-5	1.75E-6	-2.29E-4	5.31E-4
EP-T	mol N eq	5.65E-3	1.19E-3	4.89E-4	7.33E-3	2.14E-4	9.79E-4	1.09E-5	-2.54E-3	5.99E-3
POCP	kg NMVOC eq	2.56E-3	3.19E-4	1.36E-4	3.01E-3	6.13E-5	3.08E-4	4.11E-6	-1.17E-3	2.22E-3
ADP-mm	kg Sb eq	1.36E-5	5.94E-7	5.34E-7	1.48E-5	2.47E-7	1.18E-6	2.73E-9	-2.96E-6	1.32E-5
ADP-f	MJ	2.77E+1	4.22E-1	1.76E-1	2.83E+1	1.47E-1	9.43E-1	8.25E-3	-1.45E+1	1.49E+1
WDP	m3 depriv.	5.64E-1	1.29E-3	1.14E-1	6.79E-1	4.50E-4	1.84E-2	4.45E-5	-2.45E-1	4.53E-1
PM	disease inc.	2.63E-8	2.16E-9	2.54E-9	3.10E-8	8.62E-10	4.93E-9	5.67E-11	-1.07E-8	2.62E-8
IR	kBq U-235 eq	1.61E-2	1.78E-3	5.24E-4	1.84E-2	6.41E-4	2.85E-3	3.82E-5	-6.61E-3	1.54E-2
ETP-fw	CTUe	5.32E+0	3.50E-1	4.92E-1	6.16E+0	1.19E-1	1.07E+0	6.90E-3	-1.86E+0	5.50E+0
HTP-c	CTUh	2.50E-10	1.34E-11	1.94E-11	2.83E-10	4.24E-12	1.35E-10	2.04E-13	-7.64E-11	3.46E-10
HTP-nc	CTUh	6.11E-9	3.64E-10	5.29E-10	7.00E-9	1.42E-10	1.63E-9	4.46E-12	-1.60E-9	7.18E-9
SQP	Pt	1.26E+0	2.93E-1	2.32E-2	1.57E+0	1.25E-1	7.55E-1	2.12E-2	-3.94E-1	2.08E+0
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	5.55E-1	4.67E-3	1.11E+0	1.67E+0	2.10E-3	4.64E-2	3.18E-4	-1.75E-1	1.55E+0
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	5.55E-1	4.67E-3	1.11E+0	1.67E+0	2.10E-3	4.64E-2	3.18E-4	-1.75E-1	1.55E+0
PENRE	MJ	2.97E+1	4.48E-1	1.87E-1	3.04E+1	1.56E-1	1.00E+0	8.75E-3	-1.57E+1	1.59E+1
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	2.97E+1	4.48E-1	1.87E-1	3.04E+1	1.56E-1	1.00E+0	8.75E-3	-1.57E+1	1.59E+1
PET	MJ	3.03E+1	4.53E-1	1.30E+0	3.20E+1	1.58E-1	1.05E+0	9.07E-3	-1.58E+1	1.74E+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	8.98E-3	4.41E-5	2.70E-3	1.17E-2	1.66E-5	5.49E-4	1.02E-5	-3.68E-3	8.62E-3

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	4.22E-6	9.06E-7	2.69E-7	5.40E-6	3.75E-7	1.55E-6	9.96E-9	-4.14E-6	3.20E-6
NHWD	kg	3.83E-2	2.07E-2	8.23E-4	5.99E-2	9.08E-3	4.83E-2	3.63E-2	-1.12E-2	1.42E-1
RWD	kg	1.42E-5	2.81E-6	7.46E-7	1.78E-5	9.97E-7	3.62E-6	5.38E-8	-6.04E-6	1.64E-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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