

Environmental Profile

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

Ecochain v3.5.80



Product: 3043914 - Wafix PP Socket GY 50 Trap
 Unit: 1 piece
 Manufacturer: Wavin - PL -Buk - Extra products

LCA standard: EN15804+A2 (2019)
 Standard database: Worldwide - Ecoinvent v 3.6 Cut-Off
 Externally verified: Yes
 Issue date: 08-06-2023
 End of validity: 08-06-2028
 Verifier: Martijn van Hövell - SGS Search



Wafix PP is a versatile, uncomplicated solution for your indoor drainage. You can easily install the impact-resistant pipes even in frost. Their excellent chemical resistance makes them ideal for cast-in applications.

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 - PL -Buk - Extra products (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

A1 Raw material supply A2 Transport A3 Manufacturing

Construction process stage

A4 Transport gate to site
 A5 Assembly / Construction installation process

Use stage

B1 Use B2 Maintenance B3 Repair B4 Replacement B5 Refurbishment
 B6 Operational energy use B7 Operational water use

End-of-Life stage

C1 De-construction demolition C2 Transport C3 Waste processing
 C4 Disposal

Benefits and loads beyond the system boundaries

D Reuse- Recovery- Recycling- potential

Environmental impacts and parameters

GWP-total = EF EN15804+A2 Climate Change [kg CO2 eq]; **GWP-f** = EF Climate change - Fossil [kg CO2 eq]; **GWP-b** = EF EN15804+A2 Climate Change - Biogenic [kg CO2 eq]; **GWP-luluc** = EF EN15804+A2 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	8.48E-2	6.66E-4	1.45E-4	8.56E-2	1.16E-3	9.97E-2	5.48E-4	-6.19E-2	1.25E-1
GWP-f	kg CO2 eq	1.34E-1	6.66E-4	1.46E-4	1.35E-1	1.16E-3	4.37E-2	5.48E-4	-7.44E-2	1.06E-1
GWP-b	kg CO2 eq	-4.93E-2	4.04E-7	-1.54E-6	-4.93E-2	7.06E-7	5.60E-2	4.76E-7	1.27E-2	1.93E-2
GWP-luluc	kg CO2 eq	1.68E-4	2.36E-7	1.49E-7	1.68E-4	4.12E-7	7.18E-6	9.47E-9	-1.31E-4	4.49E-5
ODP	kg CFC11 eq	6.72E-9	1.53E-10	8.26E-12	6.88E-9	2.68E-10	1.15E-9	1.38E-11	-4.89E-9	3.42E-9
AP	mol H+ eq	5.80E-4	3.79E-6	1.47E-6	5.85E-4	6.63E-6	4.70E-5	3.29E-7	-2.71E-4	3.68E-4
EP-fw	kg P eq	3.64E-6	5.48E-9	8.24E-9	3.65E-6	9.57E-9	2.13E-7	4.32E-10	-2.19E-6	1.68E-6
EP-m	kg N eq	1.13E-4	1.36E-6	1.55E-7	1.14E-4	2.37E-6	1.46E-5	2.13E-7	-5.64E-5	7.53E-5
EP-T	mol N eq	1.23E-3	1.50E-5	1.85E-6	1.25E-3	2.61E-5	1.61E-4	1.33E-6	-6.41E-4	7.95E-4
POCP	kg NMVOC eq	4.75E-4	4.28E-6	6.28E-7	4.80E-4	7.47E-6	4.97E-5	5.00E-7	-2.43E-4	2.94E-4
ADP-mm	kg Sb eq	3.89E-6	1.72E-8	1.97E-8	3.92E-6	3.01E-8	1.84E-7	3.33E-10	-5.83E-7	3.56E-6
ADP-f	MJ	3.89E+0	1.02E-2	1.36E-3	3.91E+0	1.79E-2	1.34E-1	1.01E-3	-2.03E+0	2.03E+0
WDP	m3 depriv.	8.16E-2	3.14E-5	5.22E-5	8.17E-2	5.48E-5	2.39E-3	5.56E-6	-5.29E-2	3.13E-2
PM	disease inc.	6.22E-9	6.01E-11	9.08E-12	6.29E-9	1.05E-10	7.48E-10	6.91E-12	-3.56E-9	3.58E-9
IR	kBq U-235 eq	3.48E-3	4.47E-5	1.02E-6	3.53E-3	7.81E-5	4.32E-4	4.65E-6	-2.01E-3	2.03E-3
ETP-fw	CTUe	3.19E+0	8.30E-3	1.21E-2	3.21E+0	1.45E-2	1.64E-1	8.41E-4	-1.52E+0	1.86E+0
HTP-c	CTUh	9.84E-11	2.95E-13	6.17E-13	9.93E-11	5.16E-13	1.97E-11	2.49E-14	-3.57E-11	8.39E-11
HTP-nc	CTUh	1.87E-9	9.89E-12	1.57E-11	1.90E-9	1.73E-11	2.33E-10	5.44E-13	-4.55E-10	1.69E-9
SQP	Pt	4.96E+0	8.74E-3	2.24E-3	4.98E+0	1.53E-2	1.04E-1	2.58E-3	-6.01E+0	-9.08E-1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	1.49E+0	1.47E-4	2.40E-2	1.52E+0	2.56E-4	6.28E-3	3.87E-5	-9.94E-1	5.29E-1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	1.49E+0	1.47E-4	2.40E-2	1.52E+0	2.56E-4	6.28E-3	3.87E-5	-9.94E-1	5.29E-1
PENRE	MJ	4.18E+0	1.09E-2	1.44E-3	4.19E+0	1.90E-2	1.43E-1	1.07E-3	-2.19E+0	2.16E+0
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	4.18E+0	1.09E-2	1.44E-3	4.19E+0	1.90E-2	1.43E-1	1.07E-3	-2.19E+0	2.16E+0
PET	MJ	5.67E+0	1.10E-2	2.55E-2	5.71E+0	1.92E-2	1.49E-1	1.11E-3	-3.18E+0	2.69E+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	1.53E-3	1.16E-6	1.46E-6	1.53E-3	2.02E-6	7.48E-5	1.24E-6	-1.04E-3	5.68E-4

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	1.39E-6	2.61E-8	2.73E-13	1.41E-6	4.57E-8	2.39E-7	1.22E-9	-1.11E-6	5.92E-7
NHWD	kg	1.13E-2	6.33E-4	1.05E-6	1.19E-2	1.11E-3	6.88E-3	4.42E-3	-4.63E-3	1.97E-2
RWD	kg	3.46E-6	6.95E-8	1.10E-13	3.53E-6	1.21E-7	5.63E-7	6.56E-9	-1.97E-6	2.25E-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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