

Environmental Profile

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

Ecochain v3.5.80



Product: 3043912 - Wafix PP Socket GY 32 S/S
Unit: 1 piece
Manufacturer: Wavin - PL -Buk - Extra products

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.

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



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					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 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	6.78E-2	6.62E-4	1.45E-4	6.86E-2	7.32E-4	8.21E-2	3.45E-4	-4.39E-2	1.08E-1
GWP-f	kg CO2 eq	1.17E-1	6.61E-4	1.46E-4	1.18E-1	7.32E-4	3.03E-2	3.45E-4	-4.86E-2	1.00E-1
GWP-b	kg CO2 eq	-4.92E-2	4.01E-7	-1.54E-6	-4.92E-2	4.44E-7	5.17E-2	2.99E-7	4.78E-3	7.35E-3
GWP-luluc	kg CO2 eq	1.17E-4	2.34E-7	1.49E-7	1.17E-4	2.59E-7	4.47E-6	6.06E-9	-6.84E-5	5.33E-5
ODP	kg CFC11 eq	8.47E-9	1.52E-10	8.26E-12	8.63E-9	1.69E-10	6.96E-10	8.66E-12	-3.49E-9	6.02E-9
AP	mol H+ eq	5.39E-4	3.77E-6	1.47E-6	5.44E-4	4.17E-6	2.88E-5	2.07E-7	-1.71E-4	4.06E-4
EP-fw	kg P eq	3.06E-6	5.44E-9	8.24E-9	3.07E-6	6.02E-9	1.32E-7	2.75E-10	-1.20E-6	2.01E-6
EP-m	kg N eq	9.74E-5	1.35E-6	1.55E-7	9.89E-5	1.49E-6	8.98E-6	1.33E-7	-3.63E-5	7.32E-5
EP-T	mol N eq	1.11E-3	1.48E-5	1.85E-6	1.12E-3	1.64E-5	9.89E-5	8.40E-7	-4.13E-4	8.27E-4
POCP	kg NMVOC eq	4.29E-4	4.24E-6	6.28E-7	4.33E-4	4.70E-6	3.05E-5	3.15E-7	-1.60E-4	3.09E-4
ADP-mm	kg Sb eq	7.84E-6	1.71E-8	1.97E-8	7.88E-6	1.89E-8	1.10E-7	2.11E-10	-3.92E-7	7.61E-6
ADP-f	MJ	3.34E+0	1.01E-2	1.36E-3	3.35E+0	1.12E-2	8.26E-2	6.33E-4	-1.31E+0	2.13E+0
WDP	m3 depriv.	7.54E-2	3.11E-5	5.22E-5	7.55E-2	3.45E-5	1.49E-3	3.86E-6	-2.95E-2	4.74E-2
PM	disease inc.	5.70E-9	5.97E-11	9.08E-12	5.77E-9	6.61E-11	4.55E-10	4.35E-12	-2.22E-9	4.07E-9
IR	kBq U-235 eq	3.93E-3	4.44E-5	1.02E-6	3.98E-3	4.91E-5	2.64E-4	2.92E-6	-1.21E-3	3.08E-3
ETP-fw	CTUe	2.13E+0	8.24E-3	1.21E-2	2.15E+0	9.12E-3	9.84E-2	5.30E-4	-7.64E-1	1.50E+0
HTP-c	CTUh	6.90E-11	2.93E-13	6.17E-13	6.99E-11	3.25E-13	1.27E-11	1.60E-14	-2.72E-11	5.58E-11
HTP-nc	CTUh	1.35E-9	9.82E-12	1.57E-11	1.38E-9	1.09E-11	1.46E-10	3.44E-13	-3.88E-10	1.15E-9
SQP	Pt	4.64E+0	8.68E-3	2.24E-3	4.65E+0	9.61E-3	6.47E-2	1.62E-3	-4.45E+0	2.75E-1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	8.81E-1	1.46E-4	2.40E-2	9.05E-1	1.61E-4	3.88E-3	2.41E-5	-7.08E-1	2.01E-1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	8.81E-1	1.46E-4	2.40E-2	9.05E-1	1.61E-4	3.88E-3	2.41E-5	-7.08E-1	2.01E-1
PENRE	MJ	3.58E+0	1.08E-2	1.44E-3	3.59E+0	1.19E-2	8.80E-2	6.72E-4	-1.42E+0	2.28E+0
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	3.58E+0	1.08E-2	1.44E-3	3.59E+0	1.19E-2	8.80E-2	6.72E-4	-1.42E+0	2.28E+0
PET	MJ	4.46E+0	1.09E-2	2.55E-2	4.50E+0	1.21E-2	9.18E-2	6.96E-4	-2.12E+0	2.48E+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	1.49E-3	1.15E-6	1.46E-6	1.49E-3	1.27E-6	4.70E-5	7.77E-7	-5.53E-4	9.85E-4

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	1.38E-6	2.60E-8	2.73E-13	1.41E-6	2.87E-8	1.46E-7	7.69E-10	-7.28E-7	8.58E-7
NHWD	kg	1.15E-2	6.29E-4	1.05E-6	1.21E-2	6.96E-4	4.40E-3	2.78E-3	-3.33E-3	1.67E-2
RWD	kg	4.27E-6	6.90E-8	1.10E-13	4.34E-6	7.64E-8	3.43E-7	4.12E-9	-1.21E-6	3.55E-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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