

Environmental Profile

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

Ecochain v3.5.80



Product: 3020672 - Wafix PP Socket BK 50 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	8.72E-2	9.54E-4	1.45E-4	8.83E-2	1.09E-3	9.09E-2	5.14E-4	-5.58E-2	1.25E-1
GWP-f	kg CO2 eq	1.36E-1	9.53E-4	1.46E-4	1.37E-1	1.09E-3	3.62E-2	5.14E-4	-6.56E-2	1.10E-1
GWP-b	kg CO2 eq	-4.93E-2	5.79E-7	-1.54E-6	-4.93E-2	6.62E-7	5.47E-2	4.48E-7	9.87E-3	1.53E-2
GWP-luluc	kg CO2 eq	1.57E-4	3.37E-7	1.49E-7	1.57E-4	3.86E-7	6.61E-6	8.61E-9	-1.11E-4	5.37E-5
ODP	kg CFC11 eq	9.27E-9	2.20E-10	8.26E-12	9.50E-9	2.51E-10	1.03E-9	1.29E-11	-3.70E-9	7.10E-9
AP	mol H+ eq	6.05E-4	5.43E-6	1.47E-6	6.11E-4	6.21E-6	4.22E-5	3.06E-7	-2.42E-4	4.18E-4
EP-fw	kg P eq	3.59E-6	7.85E-9	8.24E-9	3.60E-6	8.97E-9	1.95E-7	3.97E-10	-1.85E-6	1.95E-6
EP-m	kg N eq	1.19E-4	1.94E-6	1.55E-7	1.21E-4	2.22E-6	1.30E-5	2.01E-7	-5.02E-5	8.63E-5
EP-T	mol N eq	1.32E-3	2.14E-5	1.85E-6	1.34E-3	2.45E-5	1.43E-4	1.25E-6	-5.71E-4	9.38E-4
POCP	kg NMVOC eq	5.01E-4	6.12E-6	6.28E-7	5.07E-4	7.00E-6	4.44E-5	4.68E-7	-2.19E-4	3.41E-4
ADP-mm	kg Sb eq	6.88E-6	2.47E-8	1.97E-8	6.92E-6	2.82E-8	1.66E-7	3.08E-10	-5.24E-7	6.59E-6
ADP-f	MJ	3.90E+0	1.46E-2	1.36E-3	3.91E+0	1.67E-2	1.22E-1	9.40E-4	-1.85E+0	2.20E+0
WDP	m3 depriv.	8.13E-2	4.49E-5	5.22E-5	8.14E-2	5.13E-5	2.21E-3	4.30E-6	-4.56E-2	3.80E-2
PM	disease inc.	6.60E-9	8.61E-11	9.08E-12	6.69E-9	9.84E-11	6.75E-10	6.46E-12	-3.17E-9	4.31E-9
IR	kBq U-235 eq	4.28E-3	6.40E-5	1.02E-6	4.35E-3	7.31E-5	3.92E-4	4.36E-6	-1.75E-3	3.06E-3
ETP-fw	CTUe	2.91E+0	1.19E-2	1.21E-2	2.93E+0	1.36E-2	1.47E-1	7.86E-4	-1.26E+0	1.83E+0
HTP-c	CTUh	8.56E-11	4.23E-13	6.17E-13	8.66E-11	4.83E-13	1.71E-11	2.26E-14	-3.27E-11	7.15E-11
HTP-nc	CTUh	1.71E-9	1.42E-11	1.57E-11	1.74E-9	1.62E-11	2.07E-10	5.04E-13	-5.13E-10	1.46E-9
SQP	Pt	4.95E+0	1.25E-2	2.24E-3	4.96E+0	1.43E-2	9.53E-2	2.41E-3	-5.50E+0	-4.21E-1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	1.30E+0	2.10E-4	2.40E-2	1.33E+0	2.40E-4	5.75E-3	3.66E-5	-9.01E-1	4.32E-1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	1.30E+0	2.10E-4	2.40E-2	1.33E+0	2.40E-4	5.75E-3	3.66E-5	-9.01E-1	4.32E-1
PENRE	MJ	4.18E+0	1.55E-2	1.44E-3	4.19E+0	1.78E-2	1.30E-1	9.97E-4	-1.99E+0	2.35E+0
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	4.18E+0	1.55E-2	1.44E-3	4.19E+0	1.78E-2	1.30E-1	9.97E-4	-1.99E+0	2.35E+0
PET	MJ	5.48E+0	1.57E-2	2.55E-2	5.52E+0	1.80E-2	1.36E-1	1.03E-3	-2.89E+0	2.79E+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	1.56E-3	1.66E-6	1.46E-6	1.57E-3	1.89E-6	6.83E-5	1.16E-6	-8.91E-4	7.48E-4

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	1.63E-6	3.74E-8	2.73E-13	1.67E-6	4.28E-8	2.15E-7	1.13E-9	-8.78E-7	1.05E-6
NHWD	kg	1.57E-2	9.07E-4	1.05E-6	1.67E-2	1.04E-3	6.10E-3	4.14E-3	-4.17E-3	2.38E-2
RWD	kg	4.67E-6	9.95E-8	1.10E-13	4.77E-6	1.14E-7	5.09E-7	6.14E-9	-1.72E-6	3.69E-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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