

Environmental Profile

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

Ecochain v3.5.80



Product: 3020678 - Wafix PP End Cap BK 125
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	2.21E-1	4.13E-4	1.45E-4	2.22E-1	3.71E-3	2.81E-1	1.75E-3	-1.94E-1	3.15E-1
GWP-f	kg CO2 eq	3.68E-1	4.13E-4	1.46E-4	3.68E-1	3.71E-3	1.24E-1	1.75E-3	-2.11E-1	2.86E-1
GWP-b	kg CO2 eq	-1.47E-1	2.51E-7	-1.54E-6	-1.47E-1	2.25E-6	1.58E-1	1.52E-6	1.73E-2	2.82E-2
GWP-luluc	kg CO2 eq	3.40E-4	1.46E-7	1.49E-7	3.40E-4	1.31E-6	2.19E-5	2.99E-8	-2.47E-4	1.17E-4
ODP	kg CFC11 eq	1.54E-8	9.52E-11	8.26E-12	1.56E-8	8.55E-10	3.23E-9	4.39E-11	-1.21E-8	7.58E-9
AP	mol H+ eq	1.49E-3	2.35E-6	1.47E-6	1.49E-3	2.11E-5	1.33E-4	1.05E-6	-7.23E-4	9.26E-4
EP-fw	kg P eq	8.16E-6	3.40E-9	8.24E-9	8.17E-6	3.05E-8	6.42E-7	1.37E-9	-4.69E-6	4.15E-6
EP-m	kg N eq	2.78E-4	8.42E-7	1.55E-7	2.79E-4	7.56E-6	4.05E-5	6.80E-7	-1.46E-4	1.81E-4
EP-T	mol N eq	3.05E-3	9.28E-6	1.85E-6	3.06E-3	8.34E-5	4.46E-4	4.25E-6	-1.66E-3	1.94E-3
POCP	kg NMVOC eq	1.26E-3	2.65E-6	6.28E-7	1.26E-3	2.38E-5	1.39E-4	1.60E-6	-6.64E-4	7.65E-4
ADP-mm	kg Sb eq	5.97E-6	1.07E-8	1.97E-8	6.00E-6	9.60E-8	5.21E-7	1.06E-9	-1.65E-6	4.96E-6
ADP-f	MJ	1.16E+1	6.34E-3	1.36E-3	1.16E+1	5.70E-2	3.97E-1	3.20E-3	-6.08E+0	5.98E+0
WDP	m3 depriv.	2.28E-1	1.95E-5	5.22E-5	2.28E-1	1.75E-4	7.37E-3	1.66E-5	-1.31E-1	1.04E-1
PM	disease inc.	1.57E-8	3.73E-11	9.08E-12	1.57E-8	3.35E-10	2.15E-9	2.20E-11	-8.70E-9	9.54E-9
IR	kBq U-235 eq	8.60E-3	2.77E-5	1.02E-6	8.63E-3	2.49E-4	1.25E-3	1.49E-5	-4.84E-3	5.30E-3
ETP-fw	CTUe	5.99E+0	5.15E-3	1.21E-2	6.00E+0	4.63E-2	4.66E-1	2.68E-3	-2.86E+0	3.66E+0
HTP-c	CTUh	2.09E-10	1.83E-13	6.17E-13	2.10E-10	1.65E-12	5.66E-11	7.86E-14	-9.48E-11	1.73E-10
HTP-nc	CTUh	4.17E-9	6.14E-12	1.57E-11	4.20E-9	5.52E-11	6.77E-10	1.73E-12	-1.56E-9	3.37E-9
SQP	Pt	1.38E+1	5.42E-3	2.24E-3	1.38E+1	4.87E-2	3.13E-1	8.22E-3	-1.42E+1	3.16E-2
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	4.06E+0	9.10E-5	2.40E-2	4.09E+0	8.17E-4	1.90E-2	1.24E-4	-2.29E+0	1.82E+0
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	4.06E+0	9.10E-5	2.40E-2	4.09E+0	8.17E-4	1.90E-2	1.24E-4	-2.29E+0	1.82E+0
PENRE	MJ	1.24E+1	6.73E-3	1.44E-3	1.24E+1	6.05E-2	4.23E-1	3.40E-3	-6.55E+0	6.38E+0
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	1.24E+1	6.73E-3	1.44E-3	1.24E+1	6.05E-2	4.23E-1	3.40E-3	-6.55E+0	6.38E+0
PET	MJ	1.65E+1	6.82E-3	2.55E-2	1.65E+1	6.13E-2	4.42E-1	3.52E-3	-8.83E+0	8.20E+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	3.86E-3	7.18E-7	1.46E-6	3.87E-3	6.45E-6	2.25E-4	3.95E-6	-2.37E-3	1.73E-3

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	2.99E-6	1.62E-8	2.73E-13	3.01E-6	1.46E-7	6.81E-7	3.86E-9	-2.59E-6	1.25E-6
NHWD	kg	2.36E-2	3.93E-4	1.05E-6	2.40E-2	3.53E-3	2.00E-2	1.41E-2	-1.20E-2	4.97E-2
RWD	kg	8.60E-6	4.31E-8	1.10E-13	8.64E-6	3.87E-7	1.61E-6	2.09E-8	-4.72E-6	5.94E-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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