

Environmental Profile

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

Ecochain v3.5.80



Product: 3003264 - PVCU Cap for Spigot GY 110 Drain 125
Unit: 1 piece
Manufacturer: Wavin - PL -Buk - Extra products

PVC external sewage pipes with a solid wall are produced in two classes of circumferential stiffness (SN8, SN4), which enables optimal selection depending on the load conditions. A wide portfolio of system fittings facilitates the construction of many schemes of sewage networks, as well as connections with systems made of other materials. Diameter range DN/OD 110-500mm. The pipes meet the requirements of the PN-EN 1401-1 standard.

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	2.11E-1	3.04E-3	1.45E-4	2.14E-1	2.60E-3	1.26E-1	8.31E-4	-1.19E-1	2.25E-1
GWP-f	kg CO2 eq	2.42E-1	3.04E-3	1.46E-4	2.45E-1	2.60E-3	8.76E-2	8.31E-4	-1.31E-1	2.05E-1
GWP-b	kg CO2 eq	-3.12E-2	1.85E-6	-1.54E-6	-3.12E-2	1.58E-6	3.87E-2	1.04E-6	1.17E-2	1.92E-2
GWP-luluc	kg CO2 eq	2.81E-4	1.08E-6	1.49E-7	2.82E-4	9.21E-7	3.29E-5	2.21E-8	-1.75E-4	1.41E-4
ODP	kg CFC11 eq	1.13E-7	7.01E-10	8.26E-12	1.14E-7	6.00E-10	9.13E-9	3.08E-11	-5.83E-8	6.55E-8
AP	mol H+ eq	1.16E-3	1.73E-5	1.47E-6	1.18E-3	1.48E-5	1.59E-4	7.52E-7	-5.17E-4	8.38E-4
EP-fw	kg P eq	1.11E-5	2.50E-8	8.24E-9	1.12E-5	2.14E-8	1.10E-6	9.93E-10	-5.42E-6	6.87E-6
EP-m	kg N eq	2.11E-4	6.20E-6	1.55E-7	2.17E-4	5.30E-6	3.95E-5	4.62E-7	-9.66E-5	1.66E-4
EP-T	mol N eq	2.29E-3	6.83E-5	1.85E-6	2.36E-3	5.84E-5	4.36E-4	2.99E-6	-1.05E-3	1.81E-3
POCP	kg NMVOC eq	7.51E-4	1.95E-5	6.28E-7	7.71E-4	1.67E-5	1.30E-4	1.03E-6	-3.51E-4	5.68E-4
ADP-mm	kg Sb eq	1.99E-4	7.87E-8	1.97E-8	1.99E-4	6.73E-8	6.21E-7	7.57E-10	-2.44E-6	1.97E-4
ADP-f	MJ	5.80E+0	4.67E-2	1.36E-3	5.85E+0	3.99E-2	4.23E-1	2.25E-3	-3.03E+0	3.28E+0
WDP	m3 depriv.	3.54E-1	1.43E-4	5.22E-5	3.54E-1	1.23E-4	1.65E-2	1.59E-5	-1.80E-1	1.90E-1
PM	disease inc.	8.63E-9	2.74E-10	9.08E-12	8.92E-9	2.35E-10	1.96E-9	1.55E-11	-4.48E-9	6.66E-9
IR	kBq U-235 eq	1.27E-2	2.04E-4	1.02E-6	1.29E-2	1.75E-4	1.50E-3	1.03E-5	-6.20E-3	8.36E-3
ETP-fw	CTUe	7.26E+0	3.79E-2	1.21E-2	7.31E+0	3.24E-2	3.22E+0	3.55E-2	-2.64E+0	7.97E+0
HTP-c	CTUh	2.12E-10	1.35E-12	6.17E-13	2.13E-10	1.15E-12	4.97E-11	6.32E-14	-7.87E-11	1.86E-10
HTP-nc	CTUh	6.32E-9	4.52E-11	1.57E-11	6.38E-9	3.87E-11	1.14E-9	6.81E-12	-2.34E-9	5.23E-9
SQP	Pt	4.09E+0	3.99E-2	2.24E-3	4.14E+0	3.42E-2	2.60E-1	5.77E-3	-4.87E+0	-4.31E-1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	1.30E+0	6.70E-4	2.40E-2	1.33E+0	5.73E-4	3.02E-2	8.34E-5	-8.73E-1	4.85E-1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	1.30E+0	6.70E-4	2.40E-2	1.33E+0	5.73E-4	3.02E-2	8.34E-5	-8.73E-1	4.85E-1
PENRE	MJ	6.22E+0	4.95E-2	1.44E-3	6.27E+0	4.24E-2	4.50E-1	2.39E-3	-3.27E+0	3.50E+0
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	6.22E+0	4.95E-2	1.44E-3	6.27E+0	4.24E-2	4.50E-1	2.39E-3	-3.27E+0	3.50E+0
PET	MJ	7.52E+0	5.02E-2	2.55E-2	7.60E+0	4.30E-2	4.80E-1	2.48E-3	-4.14E+0	3.98E+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	4.23E-3	5.28E-6	1.46E-6	4.24E-3	4.52E-6	4.54E-4	2.76E-6	-2.19E-3	2.50E-3

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	2.91E-5	1.19E-7	2.73E-13	2.92E-5	1.02E-7	7.01E-7	2.76E-9	-2.77E-6	2.72E-5
NHWD	kg	2.58E-2	2.89E-3	1.05E-6	2.87E-2	2.48E-3	1.60E-2	9.90E-3	-1.09E-2	4.62E-2
RWD	kg	1.12E-5	3.17E-7	1.10E-13	1.15E-5	2.72E-7	1.62E-6	1.46E-8	-5.61E-6	7.82E-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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