

Environmental Profile

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

Ecochain v3.5.80



Product: 3003960 - PVC U3 Click Inlet GY/GD 315x125 SN8
Unit: 1 piece
Manufacturer: Wavin - PL -Buk - Extra products

Wavin carries a complete PVC range of outdoor sewers. With PVC as a material, a smooth-walled, flexible and completely watertight piping system is obtained. Moreover, PVC is absolutely resistant to all substances that occur in domestic wastewater. By working with a light material, large pipe lengths and plug connections, a very fast installation is guaranteed.

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	3.44E+0	3.10E-2	1.45E-4	3.47E+0	3.78E-2	2.23E+0	1.41E-2	-1.82E+0	3.93E+0
GWP-f	kg CO2 eq	3.79E+0	3.10E-2	1.46E-4	3.82E+0	3.78E-2	1.80E+0	1.41E-2	-1.94E+0	3.73E+0
GWP-b	kg CO2 eq	-3.54E-1	1.88E-5	-1.54E-6	-3.54E-1	2.29E-5	4.25E-1	1.70E-5	1.22E-1	1.93E-1
GWP-luluc	kg CO2 eq	3.62E-3	1.10E-5	1.49E-7	3.63E-3	1.34E-5	4.34E-4	3.30E-7	-2.03E-3	2.04E-3
ODP	kg CFC11 eq	1.64E-6	7.15E-9	8.26E-12	1.65E-6	8.71E-9	1.20E-7	4.89E-10	-7.49E-7	1.03E-6
AP	mol H+ eq	1.79E-2	1.77E-4	1.47E-6	1.81E-2	2.15E-4	2.16E-3	1.19E-5	-6.77E-3	1.37E-2
EP-fw	kg P eq	1.53E-4	2.55E-7	8.24E-9	1.54E-4	3.11E-7	1.46E-5	1.52E-8	-6.66E-5	1.02E-4
EP-m	kg N eq	3.10E-3	6.32E-5	1.55E-7	3.16E-3	7.70E-5	5.49E-4	1.02E-5	-1.27E-3	2.52E-3
EP-T	mol N eq	3.35E-2	6.97E-4	1.85E-6	3.42E-2	8.49E-4	6.06E-3	4.74E-5	-1.38E-2	2.73E-2
POCP	kg NMVOC eq	1.24E-2	1.99E-4	6.28E-7	1.26E-2	2.43E-4	1.79E-3	1.65E-5	-4.73E-3	9.92E-3
ADP-mm	kg Sb eq	3.69E-4	8.02E-7	1.97E-8	3.70E-4	9.78E-7	8.18E-6	1.17E-8	-4.01E-5	3.39E-4
ADP-f	MJ	9.76E+1	4.76E-1	1.36E-3	9.81E+1	5.80E-1	5.63E+0	3.57E-2	-4.47E+1	5.96E+1
WDP	m3 depriv.	4.95E+0	1.46E-3	5.22E-5	4.96E+0	1.78E-3	2.24E-1	1.67E-4	-2.26E+0	2.92E+0
PM	disease inc.	1.55E-7	2.80E-9	9.08E-12	1.58E-7	3.41E-9	2.60E-8	2.45E-10	-5.64E-8	1.31E-7
IR	kBq U-235 eq	2.18E-1	2.08E-3	1.02E-6	2.20E-1	2.54E-3	1.98E-2	1.66E-4	-7.96E-2	1.63E-1
ETP-fw	CTUe	8.09E+1	3.87E-1	1.21E-2	8.13E+1	4.71E-1	4.32E+1	4.75E-1	-3.17E+1	9.37E+1
HTP-c	CTUh	2.43E-9	1.38E-11	6.17E-13	2.45E-9	1.68E-11	6.07E-10	9.39E-13	-9.84E-10	2.09E-9
HTP-nc	CTUh	7.28E-8	4.61E-10	1.57E-11	7.33E-8	5.62E-10	1.52E-8	9.38E-11	-2.98E-8	5.93E-8
SQP	Pt	4.96E+1	4.07E-1	2.24E-3	5.00E+1	4.96E-1	3.44E+0	9.15E-2	-5.34E+1	5.74E-1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	1.61E+1	6.83E-3	2.40E-2	1.61E+1	8.32E-3	4.00E-1	1.42E-3	-9.69E+0	6.86E+0
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	1.61E+1	6.83E-3	2.40E-2	1.61E+1	8.32E-3	4.00E-1	1.42E-3	-9.69E+0	6.86E+0
PENRE	MJ	1.05E+2	5.05E-1	1.44E-3	1.05E+2	6.16E-1	5.99E+0	3.79E-2	-4.83E+1	6.34E+1
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	1.05E+2	5.05E-1	1.44E-3	1.05E+2	6.16E-1	5.99E+0	3.79E-2	-4.83E+1	6.34E+1
PET	MJ	1.21E+2	5.12E-1	2.55E-2	1.21E+2	6.24E-1	6.39E+0	3.93E-2	-5.80E+1	7.03E+1
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	6.26E-2	5.39E-5	1.46E-6	6.27E-2	6.56E-5	6.88E-3	4.41E-5	-2.75E-2	4.21E-2

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	7.09E-5	1.22E-6	2.73E-13	7.21E-5	1.48E-6	9.66E-6	4.28E-8	-3.92E-5	4.41E-5
NHWD	kg	3.66E-1	2.95E-2	1.05E-6	3.95E-1	3.60E-2	2.23E-1	1.57E-1	-1.36E-1	6.75E-1
RWD	kg	2.24E-4	3.24E-6	1.10E-13	2.28E-4	3.94E-6	2.14E-5	2.33E-7	-7.33E-5	1.80E-4
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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