

Environmental Profile

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

Ecochain v3.5.80



Product: 3003958 - PVC U3 Click Inlet GY/GD 250x125 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	3.47E+0	3.15E-2	1.45E-4	3.50E+0	3.80E-2	2.24E+0	1.42E-2	-1.84E+0	3.96E+0
GWP-f	kg CO2 eq	3.82E+0	3.14E-2	1.46E-4	3.85E+0	3.80E-2	1.82E+0	1.42E-2	-1.96E+0	3.77E+0
GWP-b	kg CO2 eq	-3.54E-1	1.91E-5	-1.54E-6	-3.54E-1	2.31E-5	4.25E-1	1.71E-5	1.22E-1	1.93E-1
GWP-luluc	kg CO2 eq	3.64E-3	1.11E-5	1.49E-7	3.65E-3	1.35E-5	4.36E-4	3.32E-7	-2.04E-3	2.06E-3
ODP	kg CFC11 eq	1.65E-6	7.24E-9	8.26E-12	1.66E-6	8.76E-9	1.21E-7	4.92E-10	-7.53E-7	1.04E-6
AP	mol H+ eq	1.80E-2	1.79E-4	1.47E-6	1.82E-2	2.17E-4	2.17E-3	1.19E-5	-6.80E-3	1.38E-2
EP-fw	kg P eq	1.54E-4	2.59E-7	8.24E-9	1.55E-4	3.13E-7	1.46E-5	1.53E-8	-6.69E-5	1.03E-4
EP-m	kg N eq	3.12E-3	6.41E-5	1.55E-7	3.18E-3	7.75E-5	5.53E-4	1.03E-5	-1.28E-3	2.54E-3
EP-T	mol N eq	3.38E-2	7.06E-4	1.85E-6	3.45E-2	8.54E-4	6.09E-3	4.78E-5	-1.39E-2	2.76E-2
POCP	kg NMVOC eq	1.25E-2	2.02E-4	6.28E-7	1.27E-2	2.44E-4	1.80E-3	1.66E-5	-4.76E-3	1.00E-2
ADP-mm	kg Sb eq	3.75E-4	8.13E-7	1.97E-8	3.76E-4	9.83E-7	8.22E-6	1.18E-8	-4.04E-5	3.45E-4
ADP-f	MJ	9.83E+1	4.82E-1	1.36E-3	9.88E+1	5.84E-1	5.65E+0	3.59E-2	-4.50E+1	6.01E+1
WDP	m3 depriv.	4.98E+0	1.48E-3	5.22E-5	4.99E+0	1.79E-3	2.25E-1	1.68E-4	-2.27E+0	2.94E+0
PM	disease inc.	1.56E-7	2.84E-9	9.08E-12	1.59E-7	3.43E-9	2.62E-8	2.47E-10	-5.66E-8	1.32E-7
IR	kBq U-235 eq	2.20E-1	2.11E-3	1.02E-6	2.22E-1	2.55E-3	1.99E-2	1.68E-4	-8.00E-2	1.64E-1
ETP-fw	CTUe	8.15E+1	3.92E-1	1.21E-2	8.19E+1	4.74E-1	4.34E+1	4.78E-1	-3.18E+1	9.44E+1
HTP-c	CTUh	2.45E-9	1.39E-11	6.17E-13	2.47E-9	1.69E-11	6.10E-10	9.45E-13	-9.88E-10	2.11E-9
HTP-nc	CTUh	7.34E-8	4.67E-10	1.57E-11	7.38E-8	5.65E-10	1.53E-8	9.43E-11	-3.00E-8	5.98E-8
SQP	Pt	4.97E+1	4.13E-1	2.24E-3	5.01E+1	4.99E-1	3.45E+0	9.22E-2	-5.34E+1	7.30E-1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	1.63E+1	6.92E-3	2.40E-2	1.63E+1	8.37E-3	4.02E-1	1.43E-3	-9.70E+0	7.07E+0
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	1.63E+1	6.92E-3	2.40E-2	1.63E+1	8.37E-3	4.02E-1	1.43E-3	-9.70E+0	7.07E+0
PENRE	MJ	1.05E+2	5.12E-1	1.44E-3	1.06E+2	6.20E-1	6.02E+0	3.81E-2	-4.86E+1	6.39E+1
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	1.05E+2	5.12E-1	1.44E-3	1.06E+2	6.20E-1	6.02E+0	3.81E-2	-4.86E+1	6.39E+1
PET	MJ	1.22E+2	5.19E-1	2.55E-2	1.22E+2	6.28E-1	6.42E+0	3.95E-2	-5.83E+1	7.10E+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	6.31E-2	5.46E-5	1.46E-6	6.31E-2	6.60E-5	6.92E-3	4.44E-5	-2.77E-2	4.25E-2

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	7.14E-5	1.23E-6	2.73E-13	7.27E-5	1.49E-6	9.71E-6	4.31E-8	-3.94E-5	4.45E-5
NHWD	kg	3.69E-1	2.99E-2	1.05E-6	3.99E-1	3.62E-2	2.24E-1	1.58E-1	-1.37E-1	6.81E-1
RWD	kg	2.27E-4	3.28E-6	1.10E-13	2.30E-4	3.97E-6	2.15E-5	2.35E-7	-7.37E-5	1.82E-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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