

Environmental Profile

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

Ecochain v3.5.80



Product: 3003957 - PVC U3 Clickinlet GY/GD 200x125 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	3.64E+0	3.30E-2	1.45E-4	3.68E+0	4.04E-2	2.30E+0	1.49E-2	-1.93E+0	4.09E+0
GWP-f	kg CO2 eq	3.99E+0	3.30E-2	1.46E-4	4.03E+0	4.04E-2	1.87E+0	1.49E-2	-2.05E+0	3.90E+0
GWP-b	kg CO2 eq	-3.52E-1	2.00E-5	-1.54E-6	-3.52E-1	2.45E-5	4.25E-1	1.80E-5	1.21E-1	1.94E-1
GWP-luluc	kg CO2 eq	3.77E-3	1.17E-5	1.49E-7	3.79E-3	1.43E-5	4.67E-4	3.50E-7	-2.10E-3	2.16E-3
ODP	kg CFC11 eq	1.76E-6	7.60E-9	8.26E-12	1.77E-6	9.31E-9	1.30E-7	5.19E-10	-8.05E-7	1.10E-6
AP	mol H+ eq	1.88E-2	1.88E-4	1.47E-6	1.90E-2	2.30E-4	2.31E-3	1.26E-5	-7.19E-3	1.44E-2
EP-fw	kg P eq	1.62E-4	2.71E-7	8.24E-9	1.63E-4	3.32E-7	1.57E-5	1.61E-8	-7.08E-5	1.08E-4
EP-m	kg N eq	3.25E-3	6.72E-5	1.55E-7	3.31E-3	8.23E-5	5.86E-4	1.07E-5	-1.35E-3	2.65E-3
EP-T	mol N eq	3.52E-2	7.41E-4	1.85E-6	3.59E-2	9.07E-4	6.46E-3	5.04E-5	-1.46E-2	2.87E-2
POCP	kg NMVOC eq	1.30E-2	2.12E-4	6.28E-7	1.32E-2	2.59E-4	1.91E-3	1.75E-5	-5.00E-3	1.04E-2
ADP-mm	kg Sb eq	3.74E-4	8.53E-7	1.97E-8	3.75E-4	1.04E-6	8.78E-6	1.24E-8	-4.23E-5	3.43E-4
ADP-f	MJ	1.03E+2	5.06E-1	1.36E-3	1.03E+2	6.20E-1	6.04E+0	3.79E-2	-4.74E+1	6.25E+1
WDP	m3 depriv.	5.30E+0	1.55E-3	5.22E-5	5.30E+0	1.90E-3	2.41E-1	1.77E-4	-2.42E+0	3.12E+0
PM	disease inc.	1.61E-7	2.98E-9	9.08E-12	1.64E-7	3.65E-9	2.79E-8	2.60E-10	-5.91E-8	1.36E-7
IR	kBq U-235 eq	2.29E-1	2.21E-3	1.02E-6	2.31E-1	2.71E-3	2.13E-2	1.77E-4	-8.48E-2	1.70E-1
ETP-fw	CTUe	8.45E+1	4.11E-1	1.21E-2	8.49E+1	5.03E-1	4.66E+1	5.13E-1	-3.33E+1	9.92E+1
HTP-c	CTUh	2.58E-9	1.46E-11	6.17E-13	2.59E-9	1.79E-11	6.50E-10	9.97E-13	-1.04E-9	2.22E-9
HTP-nc	CTUh	7.76E-8	4.90E-10	1.57E-11	7.81E-8	6.00E-10	1.63E-8	1.01E-10	-3.19E-8	6.33E-8
SQP	Pt	5.03E+1	4.33E-1	2.24E-3	5.07E+1	5.30E-1	3.69E+0	9.72E-2	-5.37E+1	1.30E+0
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	1.70E+1	7.27E-3	2.40E-2	1.71E+1	8.89E-3	4.31E-1	1.50E-3	-9.80E+0	7.70E+0
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	1.70E+1	7.27E-3	2.40E-2	1.71E+1	8.89E-3	4.31E-1	1.50E-3	-9.80E+0	7.70E+0
PENRE	MJ	1.10E+2	5.38E-1	1.44E-3	1.11E+2	6.58E-1	6.43E+0	4.02E-2	-5.12E+1	6.65E+1
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	1.10E+2	5.38E-1	1.44E-3	1.11E+2	6.58E-1	6.43E+0	4.02E-2	-5.12E+1	6.65E+1
PET	MJ	1.27E+2	5.45E-1	2.55E-2	1.28E+2	6.67E-1	6.86E+0	4.17E-2	-6.10E+1	7.42E+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	6.61E-2	5.73E-5	1.46E-6	6.62E-2	7.01E-5	7.34E-3	4.68E-5	-2.92E-2	4.44E-2

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	7.51E-5	1.30E-6	2.73E-13	7.64E-5	1.59E-6	1.03E-5	4.55E-8	-4.14E-5	4.70E-5
NHWD	kg	3.85E-1	3.14E-2	1.05E-6	4.17E-1	3.84E-2	2.37E-1	1.67E-1	-1.45E-1	7.15E-1
RWD	kg	2.34E-4	3.44E-6	1.10E-13	2.37E-4	4.22E-6	2.30E-5	2.48E-7	-7.79E-5	1.87E-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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