

Environmental Profile

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

Ecochain v3.5.80



Product: 3003961 - PVC U3 Click Inlet GY/GD 315x160 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	4.53E+0	4.44E-2	1.45E-4	4.57E+0	5.41E-2	2.78E+0	1.90E-2	-2.55E+0	4.89E+0
GWP-f	kg CO2 eq	5.03E+0	4.43E-2	1.46E-4	5.08E+0	5.40E-2	2.19E+0	1.90E-2	-2.65E+0	4.69E+0
GWP-b	kg CO2 eq	-5.08E-1	2.69E-5	-1.54E-6	-5.08E-1	3.28E-5	5.90E-1	2.33E-5	1.11E-1	1.93E-1
GWP-luluc	kg CO2 eq	4.61E-3	1.57E-5	1.49E-7	4.63E-3	1.91E-5	6.43E-4	4.56E-7	-2.52E-3	2.77E-3
ODP	kg CFC11 eq	2.33E-6	1.02E-8	8.26E-12	2.34E-6	1.25E-8	1.78E-7	6.75E-10	-1.10E-6	1.44E-6
AP	mol H+ eq	2.32E-2	2.53E-4	1.47E-6	2.35E-2	3.08E-4	3.11E-3	1.64E-5	-9.55E-3	1.74E-2
EP-fw	kg P eq	2.07E-4	3.65E-7	8.24E-9	2.08E-4	4.45E-7	2.15E-5	2.10E-8	-9.28E-5	1.37E-4
EP-m	kg N eq	4.03E-3	9.04E-5	1.55E-7	4.12E-3	1.10E-4	7.78E-4	1.27E-5	-1.77E-3	3.25E-3
EP-T	mol N eq	4.34E-2	9.96E-4	1.85E-6	4.44E-2	1.21E-3	8.58E-3	6.55E-5	-1.91E-2	3.52E-2
POCP	kg NMVOC eq	1.58E-2	2.85E-4	6.28E-7	1.61E-2	3.47E-4	2.54E-3	2.27E-5	-6.60E-3	1.24E-2
ADP-mm	kg Sb eq	6.95E-4	1.15E-6	1.97E-8	6.96E-4	1.40E-6	1.20E-5	1.62E-8	-5.34E-5	6.56E-4
ADP-f	MJ	1.29E+2	6.81E-1	1.36E-3	1.30E+2	8.30E-1	8.24E+0	4.93E-2	-6.23E+1	7.70E+1
WDP	m3 depriv.	7.05E+0	2.09E-3	5.22E-5	7.06E+0	2.55E-3	3.28E-1	2.38E-4	-3.27E+0	4.12E+0
PM	disease inc.	1.89E-7	4.00E-9	9.08E-12	1.93E-7	4.88E-9	3.78E-8	3.39E-10	-7.59E-8	1.60E-7
IR	kBq U-235 eq	2.80E-1	2.98E-3	1.02E-6	2.83E-1	3.63E-3	2.90E-2	2.29E-4	-1.12E-1	2.04E-1
ETP-fw	CTUe	1.02E+2	5.53E-1	1.21E-2	1.03E+2	6.74E-1	6.37E+1	7.03E-1	-4.15E+1	1.26E+2
HTP-c	CTUh	3.28E-9	1.97E-11	6.17E-13	3.30E-9	2.40E-11	8.90E-10	1.30E-12	-1.41E-9	2.81E-9
HTP-nc	CTUh	1.01E-7	6.59E-10	1.57E-11	1.01E-7	8.03E-10	2.23E-8	1.37E-10	-4.29E-8	8.17E-8
SQP	Pt	6.66E+1	5.82E-1	2.24E-3	6.72E+1	7.10E-1	5.04E+0	1.26E-1	-6.60E+1	7.08E+0
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	1.89E+1	9.77E-3	2.40E-2	1.89E+1	1.19E-2	5.92E-1	1.93E-3	-1.20E+1	7.52E+0
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	1.89E+1	9.77E-3	2.40E-2	1.89E+1	1.19E-2	5.92E-1	1.93E-3	-1.20E+1	7.52E+0
PENRE	MJ	1.39E+2	7.23E-1	1.44E-3	1.40E+2	8.81E-1	8.77E+0	5.23E-2	-6.72E+1	8.20E+1
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	1.39E+2	7.23E-1	1.44E-3	1.40E+2	8.81E-1	8.77E+0	5.23E-2	-6.72E+1	8.20E+1
PET	MJ	1.58E+2	7.32E-1	2.55E-2	1.58E+2	8.93E-1	9.36E+0	5.42E-2	-7.92E+1	8.95E+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	8.43E-2	7.70E-5	1.46E-6	8.44E-2	9.39E-5	9.63E-3	6.08E-5	-3.81E-2	5.61E-2

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	1.38E-4	1.74E-6	2.73E-13	1.40E-4	2.12E-6	1.38E-5	5.92E-8	-5.36E-5	1.02E-4
NHWD	kg	4.80E-1	4.22E-2	1.05E-6	5.22E-1	5.14E-2	3.16E-1	2.17E-1	-1.95E-1	9.11E-1
RWD	kg	2.75E-4	4.63E-6	1.10E-13	2.80E-4	5.64E-6	3.12E-5	3.22E-7	-1.02E-4	2.15E-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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