

Environmental Profile

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

Ecochain v3.5.80



Product: 3003962 - PVC U3 Click Inlet GY/GD 400x125 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	3.33E+0	3.01E-2	1.45E-4	3.36E+0	3.62E-2	2.20E+0	1.36E-2	-1.76E+0	3.85E+0
GWP-f	kg CO2 eq	3.68E+0	3.01E-2	1.46E-4	3.71E+0	3.62E-2	1.77E+0	1.36E-2	-1.88E+0	3.65E+0
GWP-b	kg CO2 eq	-3.56E-1	1.83E-5	-1.54E-6	-3.56E-1	2.20E-5	4.25E-1	1.64E-5	1.23E-1	1.92E-1
GWP-luluc	kg CO2 eq	3.53E-3	1.06E-5	1.49E-7	3.54E-3	1.28E-5	4.12E-4	3.18E-7	-1.99E-3	1.98E-3
ODP	kg CFC11 eq	1.57E-6	6.93E-9	8.26E-12	1.58E-6	8.34E-9	1.14E-7	4.71E-10	-7.13E-7	9.88E-7
AP	mol H+ eq	1.74E-2	1.71E-4	1.47E-6	1.76E-2	2.06E-4	2.07E-3	1.14E-5	-6.51E-3	1.34E-2
EP-fw	kg P eq	1.48E-4	2.48E-7	8.24E-9	1.48E-4	2.98E-7	1.38E-5	1.47E-8	-6.40E-5	9.86E-5
EP-m	kg N eq	3.01E-3	6.13E-5	1.55E-7	3.08E-3	7.38E-5	5.27E-4	1.00E-5	-1.23E-3	2.46E-3
EP-T	mol N eq	3.27E-2	6.76E-4	1.85E-6	3.34E-2	8.13E-4	5.81E-3	4.57E-5	-1.34E-2	2.67E-2
POCP	kg NMVOC eq	1.21E-2	1.93E-4	6.28E-7	1.23E-2	2.32E-4	1.71E-3	1.59E-5	-4.57E-3	9.72E-3
ADP-mm	kg Sb eq	3.73E-4	7.78E-7	1.97E-8	3.74E-4	9.36E-7	7.79E-6	1.13E-8	-3.89E-5	3.44E-4
ADP-f	MJ	9.48E+1	4.62E-1	1.36E-3	9.53E+1	5.56E-1	5.36E+0	3.44E-2	-4.31E+1	5.81E+1
WDP	m3 depriv.	4.75E+0	1.42E-3	5.22E-5	4.75E+0	1.71E-3	2.13E-1	1.61E-4	-2.16E+0	2.81E+0
PM	disease inc.	1.52E-7	2.72E-9	9.08E-12	1.55E-7	3.27E-9	2.49E-8	2.36E-10	-5.48E-8	1.29E-7
IR	kBq U-235 eq	2.12E-1	2.02E-3	1.02E-6	2.14E-1	2.43E-3	1.89E-2	1.60E-4	-7.64E-2	1.60E-1
ETP-fw	CTUe	7.91E+1	3.75E-1	1.21E-2	7.94E+1	4.51E-1	4.10E+1	4.51E-1	-3.07E+1	9.06E+1
HTP-c	CTUh	2.35E-9	1.33E-11	6.17E-13	2.37E-9	1.61E-11	5.80E-10	9.05E-13	-9.46E-10	2.02E-9
HTP-nc	CTUh	7.00E-8	4.47E-10	1.57E-11	7.05E-8	5.38E-10	1.45E-8	8.93E-11	-2.85E-8	5.71E-8
SQP	Pt	4.93E+1	3.95E-1	2.24E-3	4.96E+1	4.75E-1	3.28E+0	8.82E-2	-5.32E+1	2.42E-1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	1.57E+1	6.63E-3	2.40E-2	1.57E+1	7.97E-3	3.81E-1	1.37E-3	-9.61E+0	6.50E+0
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	1.57E+1	6.63E-3	2.40E-2	1.57E+1	7.97E-3	3.81E-1	1.37E-3	-9.61E+0	6.50E+0
PENRE	MJ	1.02E+2	4.90E-1	1.44E-3	1.02E+2	5.90E-1	5.71E+0	3.65E-2	-4.66E+1	6.18E+1
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	1.02E+2	4.90E-1	1.44E-3	1.02E+2	5.90E-1	5.71E+0	3.65E-2	-4.66E+1	6.18E+1
PET	MJ	1.17E+2	4.97E-1	2.55E-2	1.18E+2	5.98E-1	6.09E+0	3.79E-2	-5.62E+1	6.83E+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	6.06E-2	5.23E-5	1.46E-6	6.07E-2	6.29E-5	6.60E-3	4.25E-5	-2.65E-2	4.09E-2

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	6.86E-5	1.18E-6	2.73E-13	6.97E-5	1.42E-6	9.24E-6	4.13E-8	-3.79E-5	4.26E-5
NHWD	kg	3.55E-1	2.86E-2	1.05E-6	3.84E-1	3.44E-2	2.14E-1	1.51E-1	-1.31E-1	6.53E-1
RWD	kg	2.20E-4	3.14E-6	1.10E-13	2.24E-4	3.78E-6	2.04E-5	2.25E-7	-7.05E-5	1.78E-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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