

Environmental Profile

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

Ecochain v3.5.71



Product: 3066560 - PVC-U UDrain Adj Gully Trap 110 Bulk(40)
Unit: 1 piece
Manufacturer: Wavin - UK - Chippenham - Verified

LCA standard: EN15804+A2 (2019)
Standard database: Worldwide - Ecoinvent v 3.6 Cut-Off
Externally verified: Yes
Issue date: 09-02-2023
End of validity: 09-02-2028
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 - UK - Chippenham - Verified (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	2.97E+0	1.28E-1	2.76E-1	3.37E+0	4.26E-2	1.16E+0	1.38E-2	-1.79E+0	2.80E+0
GWP-f	kg CO2 eq	2.94E+0	1.28E-1	2.68E-1	3.34E+0	4.26E-2	1.16E+0	1.38E-2	-1.78E+0	2.78E+0
GWP-b	kg CO2 eq	2.60E-2	-2.74E-5	7.49E-3	3.34E-2	2.58E-5	-1.09E-3	1.68E-5	-1.21E-2	2.03E-2
GWP-luluc	kg CO2 eq	2.45E-3	8.43E-5	2.18E-4	2.76E-3	1.51E-5	5.05E-4	3.53E-7	-1.10E-3	2.17E-3
ODP	kg CFC11 eq	1.64E-6	2.61E-8	2.52E-8	1.69E-6	9.81E-9	1.36E-7	5.01E-10	-8.40E-7	9.99E-7
AP	mol H+ eq	1.37E-2	3.83E-3	1.43E-3	1.89E-2	2.42E-4	2.34E-3	1.22E-5	-6.66E-3	1.48E-2
EP-fw	kg P eq	1.34E-4	5.76E-7	3.70E-6	1.39E-4	3.50E-7	1.68E-5	1.59E-8	-6.28E-5	9.30E-5
EP-m	kg N eq	2.30E-3	9.48E-4	2.90E-4	3.54E-3	8.67E-5	5.67E-4	7.50E-6	-1.15E-3	3.05E-3
EP-T	mol N eq	2.51E-2	1.05E-2	3.13E-3	3.87E-2	9.56E-4	6.25E-3	4.85E-5	-1.23E-2	3.37E-2
POCP	kg NMVOC eq	8.49E-3	2.74E-3	1.41E-3	1.26E-2	2.73E-4	1.88E-3	1.68E-5	-4.34E-3	1.05E-2
ADP-mm	kg Sb eq	1.74E-3	1.18E-6	6.27E-6	1.75E-3	1.10E-6	9.23E-6	1.22E-8	-3.49E-5	1.72E-3
ADP-f	MJ	7.50E+1	1.67E+0	2.97E+0	7.97E+1	6.53E-1	6.43E+0	3.66E-2	-4.43E+1	4.25E+1
WDP	m3 depriv.	4.96E+0	2.74E-3	9.20E-2	5.06E+0	2.00E-3	2.51E-1	2.45E-4	-2.47E+0	2.84E+0
PM	disease inc.	8.86E-8	4.68E-9	9.67E-9	1.03E-7	3.84E-9	2.92E-8	2.52E-10	-4.29E-8	9.33E-8
IR	kBq U-235 eq	1.63E-1	7.17E-3	7.58E-3	1.78E-1	2.86E-3	2.24E-2	1.68E-4	-7.92E-2	1.24E-1
ETP-fw	CTUe	6.38E+1	1.11E+0	7.51E+0	7.24E+1	5.30E-1	4.83E+1	5.34E-1	-2.36E+1	9.82E+1
HTP-c	CTUh	2.29E-9	7.10E-11	2.95E-10	2.66E-9	1.89E-11	7.25E-10	1.00E-12	-9.00E-10	2.50E-9
HTP-nc	CTUh	7.37E-8	9.45E-10	1.72E-8	9.19E-8	6.32E-10	1.71E-8	1.04E-10	-3.10E-8	7.86E-8
SQP	Pt	9.65E+0	3.64E-1	9.89E-1	1.10E+1	5.59E-1	4.00E+0	9.35E-2	-4.38E+0	1.13E+1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	3.70E+0	1.27E-2	1.53E+1	1.90E+1	9.37E-3	4.62E-1	1.35E-3	-1.79E+0	1.77E+1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	3.70E+0	1.27E-2	1.53E+1	1.90E+1	9.37E-3	4.62E-1	1.35E-3	-1.79E+0	1.77E+1
PENRE	MJ	8.05E+1	1.77E+0	3.15E+0	8.54E+1	6.94E-1	6.84E+0	3.88E-2	-4.77E+1	4.53E+1
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	8.05E+1	1.77E+0	3.15E+0	8.54E+1	6.94E-1	6.84E+0	3.88E-2	-4.77E+1	4.53E+1
PET	MJ	8.42E+1	1.78E+0	1.85E+1	1.04E+2	7.03E-1	7.30E+0	4.02E-2	-4.95E+1	6.30E+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	5.40E-2	9.85E-5	2.64E-3	5.67E-2	7.39E-5	6.87E-3	4.47E-5	-2.61E-2	3.76E-2

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	2.69E-4	1.84E-6	2.93E-5	3.00E-4	1.67E-6	1.04E-5	4.46E-8	-3.42E-5	2.78E-4
NHWD	kg	2.89E-1	1.53E-2	5.95E-3	3.10E-1	4.05E-2	2.36E-1	1.62E-1	-1.31E-1	6.18E-1
RWD	kg	1.42E-4	1.16E-5	7.75E-6	1.61E-4	4.44E-6	2.41E-5	2.38E-7	-6.98E-5	1.20E-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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