

Environmental Profile

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

Ecochain v3.5.71



Product: 3066562 - PVC-U U Drain Universal Gully Trap 110
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	3.87E+0	1.78E-1	3.76E-1	4.43E+0	5.83E-2	1.82E+0	1.89E-2	-2.48E+0	3.85E+0
GWP-f	kg CO2 eq	4.07E+0	1.78E-1	3.66E-1	4.61E+0	5.83E-2	1.59E+0	1.89E-2	-2.46E+0	3.82E+0
GWP-b	kg CO2 eq	-1.95E-1	-3.64E-5	1.02E-2	-1.85E-1	3.54E-5	2.29E-1	2.30E-5	-1.63E-2	2.83E-2
GWP-luluc	kg CO2 eq	3.49E-3	1.16E-4	2.97E-4	3.90E-3	2.06E-5	6.93E-4	4.84E-7	-1.62E-3	3.00E-3
ODP	kg CFC11 eq	2.26E-6	3.62E-8	3.43E-8	2.33E-6	1.34E-8	1.87E-7	6.86E-10	-1.16E-6	1.37E-6
AP	mol H+ eq	1.89E-2	5.27E-3	1.94E-3	2.62E-2	3.32E-4	3.21E-3	1.67E-5	-9.32E-3	2.04E-2
EP-fw	kg P eq	1.86E-4	8.08E-7	5.03E-6	1.92E-4	4.80E-7	2.30E-5	2.18E-8	-8.76E-5	1.28E-4
EP-m	kg N eq	3.22E-3	1.31E-3	3.94E-4	4.92E-3	1.19E-4	7.80E-4	1.03E-5	-1.63E-3	4.20E-3
EP-T	mol N eq	3.51E-2	1.45E-2	4.27E-3	5.39E-2	1.31E-3	8.60E-3	6.65E-5	-1.74E-2	4.64E-2
POCP	kg NMVOC eq	1.19E-2	3.77E-3	1.92E-3	1.76E-2	3.74E-4	2.58E-3	2.30E-5	-6.18E-3	1.44E-2
ADP-mm	kg Sb eq	2.39E-3	1.68E-6	8.55E-6	2.40E-3	1.51E-6	1.27E-5	1.67E-8	-4.84E-5	2.37E-3
ADP-f	MJ	1.04E+2	2.32E+0	4.04E+0	1.10E+2	8.95E-1	8.83E+0	5.01E-2	-6.11E+1	5.85E+1
WDP	m3 depriv.	6.82E+0	3.86E-3	1.25E-1	6.95E+0	2.75E-3	3.45E-1	3.36E-4	-3.40E+0	3.90E+0
PM	disease inc.	1.26E-7	6.60E-9	1.32E-8	1.46E-7	5.26E-9	4.02E-8	3.45E-10	-6.29E-8	1.29E-7
IR	kBq U-235 eq	2.26E-1	9.98E-3	1.03E-2	2.46E-1	3.91E-3	3.09E-2	2.30E-4	-1.10E-1	1.71E-1
ETP-fw	CTUe	8.85E+1	1.54E+0	1.02E+1	1.00E+2	7.27E-1	6.63E+1	7.33E-1	-3.32E+1	1.35E+2
HTP-c	CTUh	3.25E-9	9.84E-11	4.02E-10	3.75E-9	2.59E-11	9.96E-10	1.38E-12	-1.32E-9	3.45E-9
HTP-nc	CTUh	1.02E-7	1.33E-9	2.35E-8	1.27E-7	8.66E-10	2.34E-8	1.42E-10	-4.33E-8	1.08E-7
SQP	Pt	3.25E+1	5.26E-1	1.35E+0	3.44E+1	7.66E-1	5.50E+0	1.28E-1	-2.22E+1	1.85E+1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	7.87E+0	1.79E-2	2.09E+1	2.88E+1	1.28E-2	6.34E-1	1.85E-3	-4.89E+0	2.45E+1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	7.87E+0	1.79E-2	2.09E+1	2.88E+1	1.28E-2	6.34E-1	1.85E-3	-4.89E+0	2.45E+1
PENRE	MJ	1.11E+2	2.46E+0	4.29E+0	1.18E+2	9.50E-1	9.40E+0	5.32E-2	-6.58E+1	6.24E+1
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	1.11E+2	2.46E+0	4.29E+0	1.18E+2	9.50E-1	9.40E+0	5.32E-2	-6.58E+1	6.24E+1
PET	MJ	1.19E+2	2.48E+0	2.52E+1	1.47E+2	9.63E-1	1.00E+1	5.50E-2	-7.07E+1	8.69E+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	7.44E-2	1.39E-4	3.60E-3	7.81E-2	1.01E-4	9.43E-3	6.13E-5	-3.60E-2	5.17E-2

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	3.72E-4	2.60E-6	3.99E-5	4.15E-4	2.29E-6	1.43E-5	6.11E-8	-4.81E-5	3.83E-4
NHWD	kg	4.07E-1	2.29E-2	8.11E-3	4.38E-1	5.55E-2	3.24E-1	2.22E-1	-1.88E-1	8.51E-1
RWD	kg	1.97E-4	1.61E-5	1.06E-5	2.24E-4	6.09E-6	3.31E-5	3.26E-7	-9.75E-5	1.66E-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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