

# Environmental Profile

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

Ecochain v3.5.71



Product: 3066814 - PVC-U U Drain Gully Trap Base 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

A1 Raw material supply A2 Transport A3 Manufacturing

## Construction process stage

A4 Transport gate to site  
 A5 Assembly / Construction installation process

## Use stage

B1 Use B2 Maintenance B3 Repair B4 Replacement B5 Refurbishment  
 B6 Operational energy use B7 Operational water use

## End-of-Life stage

C1 De-construction demolition C2 Transport C3 Waste processing  
 C4 Disposal

## Benefits and loads beyond the system boundaries

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	1.52E+0	6.57E-2	1.57E-1	1.74E+0	2.13E-2	5.80E-1	6.82E-3	-8.93E-1	1.46E+0
GWP-f	kg CO2 eq	1.51E+0	6.57E-2	1.53E-1	1.73E+0	2.13E-2	5.80E-1	6.81E-3	-8.86E-1	1.45E+0
GWP-b	kg CO2 eq	1.34E-2	-1.41E-5	4.27E-3	1.77E-2	1.29E-5	-5.94E-4	8.40E-6	-6.11E-3	1.10E-2
GWP-luluc	kg CO2 eq	1.26E-3	4.33E-5	1.24E-4	1.42E-3	7.54E-6	2.56E-4	1.77E-7	-5.60E-4	1.13E-3
ODP	kg CFC11 eq	8.42E-7	1.34E-8	1.43E-8	8.70E-7	4.91E-9	6.93E-8	2.51E-10	-4.30E-7	5.15E-7
AP	mol H+ eq	7.00E-3	1.97E-3	8.13E-4	9.78E-3	1.21E-4	1.18E-3	6.09E-6	-3.34E-3	7.74E-3
EP-fw	kg P eq	6.89E-5	2.95E-7	2.11E-6	7.13E-5	1.75E-7	8.53E-6	7.97E-9	-3.19E-5	4.81E-5
EP-m	kg N eq	1.18E-3	4.87E-4	1.65E-4	1.83E-3	4.34E-5	2.86E-4	3.75E-6	-5.78E-4	1.59E-3
EP-T	mol N eq	1.29E-2	5.41E-3	1.79E-3	2.01E-2	4.78E-4	3.15E-3	2.43E-5	-6.15E-3	1.76E-2
POCP	kg NMVOC eq	4.35E-3	1.41E-3	8.04E-4	6.56E-3	1.37E-4	9.46E-4	8.38E-6	-2.16E-3	5.48E-3
ADP-mm	kg Sb eq	8.83E-4	6.06E-7	3.58E-6	8.87E-4	5.51E-7	4.67E-6	6.11E-9	-1.77E-5	8.75E-4
ADP-f	MJ	3.84E+1	8.56E-1	1.69E+0	4.10E+1	3.27E-1	3.25E+0	1.83E-2	-2.19E+1	2.26E+1
WDP	m3 depriv.	2.55E+0	1.41E-3	5.24E-2	2.60E+0	1.00E-3	1.28E-1	1.23E-4	-1.25E+0	1.48E+0
PM	disease inc.	4.53E-8	2.40E-9	5.51E-9	5.32E-8	1.92E-9	1.47E-8	1.26E-10	-2.14E-8	4.85E-8
IR	kBq U-235 eq	8.36E-2	3.68E-3	4.32E-3	9.16E-2	1.43E-3	1.14E-2	8.40E-5	-4.03E-2	6.42E-2
ETP-fw	CTUe	3.26E+1	5.67E-1	4.28E+0	3.75E+1	2.65E-1	2.47E+1	2.74E-1	-1.20E+1	5.08E+1
HTP-c	CTUh	1.18E-9	3.64E-11	1.68E-10	1.38E-9	9.44E-12	3.64E-10	5.04E-13	-4.57E-10	1.30E-9
HTP-nc	CTUh	3.78E-8	4.84E-10	9.82E-9	4.81E-8	3.16E-10	8.67E-9	5.29E-11	-1.58E-8	4.13E-8
SQP	Pt	4.96E+0	1.86E-1	5.64E-1	5.71E+0	2.80E-1	2.01E+0	4.68E-2	-2.22E+0	5.82E+0
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	1.90E+0	6.51E-3	8.73E+0	1.06E+1	4.69E-3	2.35E-1	6.76E-4	-9.09E-1	9.97E+0
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	1.90E+0	6.51E-3	8.73E+0	1.06E+1	4.69E-3	2.35E-1	6.76E-4	-9.09E-1	9.97E+0
PENRE	MJ	4.12E+1	9.09E-1	1.79E+0	4.39E+1	3.47E-1	3.46E+0	1.94E-2	-2.36E+1	2.41E+1
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	4.12E+1	9.09E-1	1.79E+0	4.39E+1	3.47E-1	3.46E+0	1.94E-2	-2.36E+1	2.41E+1
PET	MJ	4.31E+1	9.15E-1	1.05E+1	5.46E+1	3.52E-1	3.69E+0	2.01E-2	-2.45E+1	3.41E+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	2.77E-2	5.05E-5	1.51E-3	2.92E-2	3.70E-5	3.50E-3	2.24E-5	-1.32E-2	1.96E-2

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	1.37E-4	9.42E-7	1.67E-5	1.55E-4	8.36E-7	5.23E-6	2.23E-8	-1.73E-5	1.43E-4
NHWD	kg	1.49E-1	7.81E-3	3.39E-3	1.60E-1	2.03E-2	1.18E-1	8.10E-2	-6.65E-2	3.13E-1
RWD	kg	7.26E-5	5.94E-6	4.42E-6	8.30E-5	2.22E-6	1.21E-5	1.19E-7	-3.55E-5	6.20E-5
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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