

Environmental Profile

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

Ecochain v3.5.71



Product: 3066565 - PVC-U U Drain Univ Gully Hopper 110 S/S
 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	1.71E+0	7.39E-2	1.58E-1	1.94E+0	2.39E-2	6.49E-1	7.62E-3	-9.99E-1	1.62E+0
GWP-f	kg CO2 eq	1.69E+0	7.39E-2	1.54E-1	1.92E+0	2.38E-2	6.50E-1	7.61E-3	-9.92E-1	1.61E+0
GWP-b	kg CO2 eq	1.51E-2	-1.58E-5	4.28E-3	1.94E-2	1.45E-5	-6.64E-4	9.41E-6	-6.85E-3	1.19E-2
GWP-luluc	kg CO2 eq	1.42E-3	4.86E-5	1.25E-4	1.59E-3	8.44E-6	2.87E-4	1.98E-7	-6.29E-4	1.26E-3
ODP	kg CFC11 eq	9.47E-7	1.50E-8	1.44E-8	9.77E-7	5.50E-9	7.78E-8	2.81E-10	-4.83E-7	5.77E-7
AP	mol H+ eq	7.87E-3	2.21E-3	8.16E-4	1.09E-2	1.36E-4	1.33E-3	6.82E-6	-3.75E-3	8.62E-3
EP-fw	kg P eq	7.76E-5	3.32E-7	2.11E-6	8.00E-5	1.96E-7	9.58E-6	8.94E-9	-3.59E-5	5.39E-5
EP-m	kg N eq	1.33E-3	5.48E-4	1.66E-4	2.04E-3	4.86E-5	3.21E-4	4.20E-6	-6.47E-4	1.77E-3
EP-T	mol N eq	1.45E-2	6.09E-3	1.79E-3	2.23E-2	5.36E-4	3.54E-3	2.72E-5	-6.89E-3	1.95E-2
POCP	kg NMVOC eq	4.89E-3	1.58E-3	8.07E-4	7.28E-3	1.53E-4	1.06E-3	9.39E-6	-2.42E-3	6.08E-3
ADP-mm	kg Sb eq	1.01E-3	6.82E-7	3.59E-6	1.01E-3	6.17E-7	5.24E-6	6.85E-9	-1.99E-5	9.98E-4
ADP-f	MJ	4.33E+1	9.63E-1	1.70E+0	4.59E+1	3.66E-1	3.64E+0	2.05E-2	-2.45E+1	2.54E+1
WDP	m3 depriv.	2.86E+0	1.58E-3	5.26E-2	2.92E+0	1.12E-3	1.44E-1	1.38E-4	-1.41E+0	1.66E+0
PM	disease inc.	5.09E-8	2.70E-9	5.53E-9	5.92E-8	2.15E-9	1.65E-8	1.41E-10	-2.40E-8	5.40E-8
IR	kBq U-235 eq	9.41E-2	4.14E-3	4.34E-3	1.03E-1	1.60E-3	1.27E-2	9.40E-5	-4.52E-2	7.17E-2
ETP-fw	CTUe	3.68E+1	6.38E-1	4.30E+0	4.18E+1	2.97E-1	2.78E+1	3.08E-1	-1.35E+1	5.67E+1
HTP-c	CTUh	1.32E-9	4.10E-11	1.69E-10	1.53E-9	1.06E-11	4.09E-10	5.65E-13	-5.14E-10	1.44E-9
HTP-nc	CTUh	4.26E-8	5.45E-10	9.86E-9	5.30E-8	3.54E-10	9.73E-9	5.94E-11	-1.78E-8	4.53E-8
SQP	Pt	5.55E+0	2.10E-1	5.66E-1	6.33E+0	3.13E-1	2.25E+0	5.24E-2	-2.50E+0	6.45E+0
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	2.13E+0	7.33E-3	8.76E+0	1.09E+1	5.25E-3	2.63E-1	7.57E-4	-1.02E+0	1.02E+1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	2.13E+0	7.33E-3	8.76E+0	1.09E+1	5.25E-3	2.63E-1	7.57E-4	-1.02E+0	1.02E+1
PENRE	MJ	4.64E+1	1.02E+0	1.80E+0	4.92E+1	3.89E-1	3.87E+0	2.17E-2	-2.64E+1	2.71E+1
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	4.64E+1	1.02E+0	1.80E+0	4.92E+1	3.89E-1	3.87E+0	2.17E-2	-2.64E+1	2.71E+1
PET	MJ	4.85E+1	1.03E+0	1.06E+1	6.01E+1	3.94E-1	4.14E+0	2.25E-2	-2.74E+1	3.72E+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	3.12E-2	5.69E-5	1.51E-3	3.27E-2	4.14E-5	3.93E-3	2.51E-5	-1.48E-2	2.19E-2

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	1.56E-4	1.06E-6	1.67E-5	1.74E-4	9.36E-7	5.87E-6	2.50E-8	-1.95E-5	1.61E-4
NHWD	kg	1.67E-1	8.81E-3	3.40E-3	1.79E-1	2.27E-2	1.33E-1	9.07E-2	-7.47E-2	3.50E-1
RWD	kg	8.17E-5	6.68E-6	4.43E-6	9.28E-5	2.49E-6	1.36E-5	1.33E-7	-3.99E-5	6.92E-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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