

Environmental Profile

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

Ecochain v3.5.71



Product: 3032514 - OsmaDrain Gully Trap Univ BN 110 S/S
Unit: 1 piece
Manufacturer: Wavin - UK - Chippenham - Verified

Wavin OsmaDrain - the definitive & comprehensive PVC-U gravity drainage system for residential, commercial & industrial projects. The source for all types of gravity drainage, sewer installation & pressure pipe systems in any private or public development. One of the UK's most trusted & leading names in plastic drainage systems.

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	1.71E+0	7.38E-2	1.83E-1	1.97E+0	2.27E-2	6.26E-1	7.21E-3	-9.54E-1	1.67E+0
GWP-f	kg CO2 eq	1.70E+0	7.38E-2	1.78E-1	1.95E+0	2.27E-2	6.26E-1	7.21E-3	-9.47E-1	1.66E+0
GWP-b	kg CO2 eq	1.40E-2	-1.37E-5	4.31E-3	1.82E-2	1.38E-5	-6.30E-4	8.97E-6	-6.61E-3	1.10E-2
GWP-luluc	kg CO2 eq	1.40E-3	4.78E-5	1.55E-4	1.60E-3	8.04E-6	2.75E-4	1.89E-7	-6.11E-4	1.28E-3
ODP	kg CFC11 eq	9.21E-7	1.51E-8	1.57E-8	9.52E-7	5.23E-9	7.48E-8	2.67E-10	-4.73E-7	5.60E-7
AP	mol H+ eq	7.90E-3	2.15E-3	9.70E-4	1.10E-2	1.29E-4	1.27E-3	6.50E-6	-3.59E-3	8.83E-3
EP-fw	kg P eq	7.65E-5	3.42E-7	2.48E-6	7.94E-5	1.87E-7	9.18E-6	8.53E-9	-3.48E-5	5.39E-5
EP-m	kg N eq	1.32E-3	5.33E-4	1.89E-4	2.05E-3	4.63E-5	3.07E-4	4.12E-6	-6.21E-4	1.78E-3
EP-T	mol N eq	1.45E-2	5.93E-3	2.06E-3	2.25E-2	5.10E-4	3.39E-3	2.59E-5	-6.60E-3	1.98E-2
POCP	kg NMVOC eq	4.97E-3	1.54E-3	8.94E-4	7.40E-3	1.46E-4	1.01E-3	8.93E-6	-2.30E-3	6.27E-3
ADP-mm	kg Sb eq	9.72E-4	7.25E-7	4.46E-6	9.78E-4	5.88E-7	5.02E-6	6.53E-9	-1.93E-5	9.64E-4
ADP-f	MJ	4.38E+1	9.68E-1	1.97E+0	4.67E+1	3.49E-1	3.48E+0	1.95E-2	-2.32E+1	2.74E+1
WDP	m3 depriv.	2.80E+0	1.65E-3	5.91E-2	2.86E+0	1.07E-3	1.38E-1	1.33E-4	-1.36E+0	1.64E+0
PM	disease inc.	5.24E-8	2.84E-9	6.65E-9	6.18E-8	2.05E-9	1.58E-8	1.34E-10	-2.28E-8	5.70E-8
IR	kBq U-235 eq	9.47E-2	4.16E-3	4.79E-3	1.04E-1	1.52E-3	1.22E-2	8.96E-5	-4.39E-2	7.36E-2
ETP-fw	CTUe	3.63E+1	6.48E-1	5.22E+0	4.22E+1	2.83E-1	2.67E+1	2.96E-1	-1.31E+1	5.64E+1
HTP-c	CTUh	1.30E-9	4.06E-11	2.05E-10	1.55E-9	1.01E-11	3.91E-10	5.40E-13	-4.99E-10	1.45E-9
HTP-nc	CTUh	4.16E-8	5.64E-10	1.08E-8	5.29E-8	3.38E-10	9.34E-9	5.72E-11	-1.73E-8	4.54E-8
SQP	Pt	5.62E+0	2.36E-1	6.80E-1	6.54E+0	2.98E-1	2.15E+0	4.99E-2	-2.42E+0	6.62E+0
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	2.12E+0	7.63E-3	1.10E+1	1.31E+1	5.00E-3	2.52E-1	7.23E-4	-9.89E-1	1.24E+1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	2.12E+0	7.63E-3	1.10E+1	1.31E+1	5.00E-3	2.52E-1	7.23E-4	-9.89E-1	1.24E+1
PENRE	MJ	4.69E+1	1.03E+0	2.09E+0	5.01E+1	3.70E-1	3.71E+0	2.07E-2	-2.50E+1	2.92E+1
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	4.69E+1	1.03E+0	2.09E+0	5.01E+1	3.70E-1	3.71E+0	2.07E-2	-2.50E+1	2.92E+1
PET	MJ	4.91E+1	1.04E+0	1.31E+1	6.32E+1	3.75E-1	3.96E+0	2.14E-2	-2.60E+1	4.15E+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	3.10E-2	5.93E-5	1.73E-3	3.28E-2	3.95E-5	3.78E-3	2.39E-5	-1.43E-2	2.24E-2

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	1.49E-4	1.12E-6	1.71E-5	1.68E-4	8.92E-7	5.62E-6	2.38E-8	-1.89E-5	1.55E-4
NHWD	kg	1.65E-1	1.10E-2	3.51E-3	1.79E-1	2.16E-2	1.27E-1	8.64E-2	-7.24E-2	3.42E-1
RWD	kg	8.38E-5	6.71E-6	4.52E-6	9.50E-5	2.37E-6	1.30E-5	1.27E-7	-3.87E-5	7.19E-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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