

Environmental Profile

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

Ecochain v3.5.71



Product: 3043065 - OsmaDrain Rodding Point BK 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	9.67E-1	3.99E-2	5.53E-1	1.56E+0	1.72E-2	5.83E-1	8.23E-3	-4.23E-1	1.75E+0
GWP-f	kg CO2 eq	9.43E-1	3.99E-2	5.50E-1	1.53E+0	1.72E-2	5.84E-1	8.23E-3	-4.22E-1	1.72E+0
GWP-b	kg CO2 eq	2.43E-2	2.30E-5	2.37E-3	2.67E-2	1.04E-5	-6.99E-4	7.21E-6	-6.11E-4	2.54E-2
GWP-luluc	kg CO2 eq	4.92E-4	1.45E-5	6.44E-4	1.15E-3	6.08E-6	9.61E-5	1.40E-7	-3.83E-5	1.21E-3
ODP	kg CFC11 eq	4.30E-8	9.15E-9	3.13E-8	8.35E-8	3.96E-9	1.28E-8	2.07E-10	-2.96E-8	7.09E-8
AP	mol H+ eq	3.93E-3	2.66E-4	3.39E-3	7.59E-3	9.79E-5	5.42E-4	4.94E-6	-8.56E-4	7.38E-3
EP-fw	kg P eq	2.51E-5	3.22E-7	8.24E-6	3.37E-5	1.41E-7	2.79E-6	6.42E-9	-3.63E-6	3.30E-5
EP-m	kg N eq	6.49E-4	9.01E-5	5.24E-4	1.26E-3	3.50E-5	1.59E-4	3.46E-6	-1.70E-4	1.29E-3
EP-T	mol N eq	7.30E-3	9.94E-4	6.03E-3	1.43E-2	3.86E-4	1.75E-3	2.01E-5	-1.89E-3	1.46E-2
POCP	kg NMVOC eq	3.04E-3	2.81E-4	2.06E-3	5.38E-3	1.10E-4	5.48E-4	7.52E-6	-8.47E-4	5.20E-3
ADP-mm	kg Sb eq	4.07E-5	1.00E-6	1.88E-5	6.05E-5	4.45E-7	2.11E-6	4.97E-9	-2.50E-6	6.05E-5
ADP-f	MJ	2.88E+1	6.09E-1	6.11E+0	3.55E+1	2.64E-1	1.68E+0	1.51E-2	-1.02E+1	2.73E+1
WDP	m3 depriv.	5.54E-1	1.84E-3	1.50E-1	7.06E-1	8.09E-4	3.33E-2	7.30E-5	-1.40E-1	6.00E-1
PM	disease inc.	3.91E-8	3.51E-9	2.44E-8	6.71E-8	1.55E-9	8.76E-9	1.04E-10	-7.05E-9	7.04E-8
IR	kBq U-235 eq	3.51E-2	2.66E-3	1.07E-2	4.85E-2	1.15E-3	5.08E-3	7.02E-5	-4.14E-3	5.07E-2
ETP-fw	CTUe	1.13E+1	4.91E-1	2.01E+1	3.19E+1	2.14E-1	2.01E+0	1.34E-2	-1.87E+0	3.23E+1
HTP-c	CTUh	1.78E-9	1.78E-11	7.88E-10	2.59E-9	7.62E-12	2.27E-10	3.68E-13	-5.49E-11	2.77E-9
HTP-nc	CTUh	1.10E-8	5.80E-10	2.29E-8	3.44E-8	2.55E-10	2.88E-9	8.30E-12	2.60E-9	4.02E-8
SQP	Pt	2.57E+0	5.07E-1	2.51E+0	5.58E+0	2.26E-1	1.34E+0	3.88E-2	-3.22E-1	6.87E+0
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	1.00E+0	8.58E-3	4.73E+1	4.83E+1	3.78E-3	8.30E-2	5.91E-4	-9.74E-2	4.83E+1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	1.00E+0	8.58E-3	4.73E+1	4.83E+1	3.78E-3	8.30E-2	5.91E-4	-9.74E-2	4.83E+1
PENRE	MJ	3.09E+1	6.46E-1	6.49E+0	3.80E+1	2.80E-1	1.79E+0	1.60E-2	-1.11E+1	2.90E+1
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	3.09E+1	6.46E-1	6.49E+0	3.80E+1	2.80E-1	1.79E+0	1.60E-2	-1.11E+1	2.90E+1
PET	MJ	3.19E+1	6.55E-1	5.38E+1	8.63E+1	2.84E-1	1.87E+0	1.66E-2	-1.12E+1	7.73E+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	1.03E-2	6.77E-5	4.96E-3	1.53E-2	2.98E-5	1.05E-3	1.86E-5	-2.17E-3	1.43E-2

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	7.90E-6	1.53E-6	1.36E-5	2.31E-5	6.75E-7	2.79E-6	1.82E-8	-7.65E-6	1.89E-5
NHWD	kg	1.58E-1	3.66E-2	3.61E-3	1.98E-1	1.63E-2	8.46E-2	6.66E-2	-8.97E-3	3.57E-1
RWD	kg	3.31E-5	4.14E-6	3.61E-6	4.09E-5	1.79E-6	6.44E-6	9.87E-8	-4.39E-6	4.48E-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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