

Environmental Profile

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

Ecochain v3.5.71



Product: 3035546 - OsmaD Spare Inlet Cover for Hoppers BK
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	8.24E-2	1.65E-3	6.10E-3	9.02E-2	1.08E-3	3.18E-2	5.09E-4	-5.05E-2	7.30E-2
GWP-f	kg CO2 eq	8.21E-2	1.64E-3	5.88E-3	8.96E-2	1.08E-3	3.18E-2	5.09E-4	-5.03E-2	7.27E-2
GWP-b	kg CO2 eq	3.37E-4	9.98E-7	2.18E-4	5.56E-4	6.55E-7	-4.33E-5	4.44E-7	-1.75E-4	3.38E-4
GWP-luluc	kg CO2 eq	2.03E-5	5.82E-7	3.96E-6	2.48E-5	3.82E-7	6.06E-6	8.53E-9	-9.70E-6	2.16E-5
ODP	kg CFC11 eq	3.79E-9	3.79E-10	6.35E-10	4.80E-9	2.49E-10	7.88E-10	1.28E-11	-1.88E-9	3.97E-9
AP	mol H+ eq	2.99E-4	9.36E-6	2.93E-5	3.38E-4	6.15E-6	3.32E-5	3.04E-7	-1.41E-4	2.36E-4
EP-fw	kg P eq	1.15E-6	1.35E-8	7.82E-8	1.24E-6	8.88E-9	1.75E-7	3.93E-10	-5.52E-7	8.72E-7
EP-m	kg N eq	4.87E-5	3.35E-6	6.63E-6	5.87E-5	2.20E-6	9.65E-6	1.99E-7	-2.49E-5	4.58E-5
EP-T	mol N eq	5.46E-4	3.69E-5	7.02E-5	6.53E-4	2.42E-5	1.06E-4	1.23E-6	-2.76E-4	5.09E-4
POCP	kg NMVOC eq	2.53E-4	1.06E-5	3.44E-5	2.98E-4	6.93E-6	3.36E-5	4.63E-7	-1.27E-4	2.12E-4
ADP-mm	kg Sb eq	9.40E-7	4.25E-8	1.13E-7	1.10E-6	2.79E-8	1.31E-7	3.05E-10	-3.32E-7	9.23E-7
ADP-f	MJ	2.97E+0	2.52E-2	6.48E-2	3.06E+0	1.66E-2	1.05E-1	9.30E-4	-1.58E+0	1.60E+0
WDP	m3 depriv.	5.52E-2	7.74E-5	2.18E-3	5.75E-2	5.08E-5	2.06E-3	4.26E-6	-2.74E-2	3.22E-2
PM	disease inc.	2.98E-9	1.48E-10	1.93E-10	3.32E-9	9.74E-11	5.46E-10	6.40E-12	-1.18E-9	2.79E-9
IR	kBq U-235 eq	2.08E-3	1.10E-4	1.86E-4	2.37E-3	7.24E-5	3.17E-4	4.32E-6	-7.35E-4	2.03E-3
ETP-fw	CTUe	4.72E-1	2.05E-2	1.45E-1	6.37E-1	1.35E-2	1.19E-1	7.79E-4	-1.95E-1	5.74E-1
HTP-c	CTUh	1.76E-11	7.29E-13	5.70E-12	2.40E-11	4.79E-13	1.41E-11	2.24E-14	-8.36E-12	3.03E-11
HTP-nc	CTUh	5.08E-10	2.44E-11	4.29E-10	9.62E-10	1.60E-11	1.76E-10	4.99E-13	-2.37E-10	9.19E-10
SQP	Pt	1.10E-1	2.16E-2	1.97E-2	1.52E-1	1.42E-2	8.40E-2	2.39E-3	-4.25E-2	2.10E-1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	4.04E-2	3.62E-4	2.70E-1	3.10E-1	2.38E-4	5.19E-3	3.63E-5	-1.96E-2	2.96E-1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	4.04E-2	3.62E-4	2.70E-1	3.10E-1	2.38E-4	5.19E-3	3.63E-5	-1.96E-2	2.96E-1
PENRE	MJ	3.19E+0	2.68E-2	6.88E-2	3.29E+0	1.76E-2	1.12E-1	9.87E-4	-1.71E+0	1.71E+0
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	3.19E+0	2.68E-2	6.88E-2	3.29E+0	1.76E-2	1.12E-1	9.87E-4	-1.71E+0	1.71E+0
PET	MJ	3.23E+0	2.72E-2	3.38E-1	3.60E+0	1.78E-2	1.17E-1	1.02E-3	-1.73E+0	2.00E+0
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	8.24E-4	2.86E-6	5.98E-5	8.87E-4	1.87E-6	6.08E-5	1.15E-6	-4.10E-4	5.41E-4

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	3.51E-7	6.45E-8	8.34E-7	1.25E-6	4.24E-8	1.71E-7	1.12E-9	-3.70E-7	1.09E-6
NHWD	kg	2.90E-3	1.56E-3	1.66E-4	4.63E-3	1.03E-3	5.17E-3	4.10E-3	-1.22E-3	1.37E-2
RWD	kg	2.31E-6	1.72E-7	2.21E-7	2.70E-6	1.13E-7	4.02E-7	6.08E-9	-6.62E-7	2.56E-6
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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