

Environmental Profile

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

Ecochain v3.5.71



Product: 3031981 - OsmaDrain Access Cover 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	7.68E-1	3.21E-2	7.76E-2	8.77E-1	9.91E-3	2.96E-1	3.26E-3	-4.23E-1	7.63E-1
GWP-f	kg CO2 eq	7.62E-1	3.21E-2	7.57E-2	8.70E-1	9.90E-3	2.97E-1	3.26E-3	-4.20E-1	7.59E-1
GWP-b	kg CO2 eq	5.00E-3	-4.53E-6	1.84E-3	6.83E-3	6.01E-6	-2.76E-4	3.96E-6	-2.81E-3	3.75E-3
GWP-luluc	kg CO2 eq	6.19E-4	2.03E-5	6.55E-5	7.05E-4	3.50E-6	1.16E-4	8.39E-8	-2.60E-4	5.64E-4
ODP	kg CFC11 eq	3.89E-7	6.61E-9	6.67E-9	4.03E-7	2.28E-9	3.11E-8	1.18E-10	-2.01E-7	2.35E-7
AP	mol H+ eq	3.58E-3	8.91E-4	4.12E-4	4.89E-3	5.64E-5	5.40E-4	2.87E-6	-1.55E-3	3.93E-3
EP-fw	kg P eq	3.34E-5	1.55E-7	1.06E-6	3.47E-5	8.15E-8	3.85E-6	3.78E-9	-1.48E-5	2.38E-5
EP-m	kg N eq	5.96E-4	2.23E-4	8.02E-5	8.99E-4	2.02E-5	1.32E-4	1.97E-6	-2.70E-4	7.83E-4
EP-T	mol N eq	6.55E-3	2.47E-3	8.75E-4	9.90E-3	2.22E-4	1.45E-3	1.14E-5	-2.87E-3	8.71E-3
POCP	kg NMVOC eq	2.31E-3	6.44E-4	3.80E-4	3.33E-3	6.36E-5	4.35E-4	3.96E-6	-1.01E-3	2.83E-3
ADP-mm	kg Sb eq	4.26E-4	3.44E-7	1.89E-6	4.28E-4	2.56E-7	2.12E-6	2.88E-9	-8.50E-6	4.22E-4
ADP-f	MJ	1.99E+1	4.25E-1	8.37E-1	2.12E+1	1.52E-1	1.48E+0	8.61E-3	-1.03E+1	1.25E+1
WDP	m3 depriv.	1.20E+0	7.61E-4	2.51E-2	1.22E+0	4.66E-4	5.79E-2	5.94E-5	-5.81E-1	6.99E-1
PM	disease inc.	2.52E-8	1.33E-9	2.82E-9	2.93E-8	8.94E-10	6.74E-9	5.92E-11	-9.92E-9	2.71E-8
IR	kBq U-235 eq	4.34E-2	1.83E-3	2.04E-3	4.73E-2	6.64E-4	5.16E-3	3.96E-5	-1.88E-2	3.44E-2
ETP-fw	CTUe	1.61E+1	2.88E-1	2.22E+0	1.86E+1	1.23E-1	1.11E+1	1.23E-1	-5.59E+0	2.43E+1
HTP-c	CTUh	5.66E-10	1.75E-11	8.69E-11	6.71E-10	4.39E-12	1.68E-10	2.38E-13	-2.13E-10	6.30E-10
HTP-nc	CTUh	1.79E-8	2.58E-10	4.60E-9	2.27E-8	1.47E-10	3.93E-9	2.39E-11	-7.35E-9	1.95E-8
SQP	Pt	2.62E+0	1.20E-1	2.89E-1	3.03E+0	1.30E-1	9.23E-1	2.20E-2	-1.04E+0	3.06E+0
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	9.39E-1	3.53E-3	4.65E+0	5.59E+0	2.18E-3	1.06E-1	3.21E-4	-4.22E-1	5.28E+0
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	9.39E-1	3.53E-3	4.65E+0	5.59E+0	2.18E-3	1.06E-1	3.21E-4	-4.22E-1	5.28E+0
PENRE	MJ	2.13E+1	4.51E-1	8.88E-1	2.27E+1	1.61E-1	1.58E+0	9.13E-3	-1.11E+1	1.33E+1
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	2.13E+1	4.51E-1	8.88E-1	2.27E+1	1.61E-1	1.58E+0	9.13E-3	-1.11E+1	1.33E+1
PET	MJ	2.23E+1	4.55E-1	5.54E+0	2.83E+1	1.64E-1	1.68E+0	9.45E-3	-1.15E+1	1.86E+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	1.38E-2	2.75E-5	7.36E-4	1.46E-2	1.72E-5	1.61E-3	1.05E-5	-6.11E-3	1.01E-2

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	6.34E-5	5.32E-7	7.29E-6	7.13E-5	3.89E-7	2.41E-6	1.05E-8	-8.28E-6	6.58E-5
NHWD	kg	7.30E-2	6.20E-3	1.50E-3	8.07E-2	9.42E-3	5.53E-2	3.80E-2	-3.09E-2	1.52E-1
RWD	kg	4.01E-5	2.94E-6	1.93E-6	4.50E-5	1.03E-6	5.54E-6	5.60E-8	-1.66E-5	3.50E-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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