

Environmental Profile

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

Ecochain v3.5.71



Product: 3036480 - OsmaDrain Access Cover BN 160 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	1.55E+0	6.70E-2	1.62E-1	1.78E+0	2.04E-2	5.68E-1	6.68E-3	-8.61E-1	1.51E+0
GWP-f	kg CO2 eq	1.54E+0	6.69E-2	1.58E-1	1.76E+0	2.04E-2	5.68E-1	6.68E-3	-8.55E-1	1.50E+0
GWP-b	kg CO2 eq	1.09E-2	-8.57E-6	4.00E-3	1.49E-2	1.24E-5	-5.81E-4	8.12E-6	-5.86E-3	8.48E-3
GWP-luluc	kg CO2 eq	1.24E-3	4.19E-5	1.34E-4	1.42E-3	7.23E-6	2.39E-4	1.71E-7	-5.38E-4	1.12E-3
ODP	kg CFC11 eq	7.93E-7	1.38E-8	1.41E-8	8.21E-7	4.71E-9	6.38E-8	2.41E-10	-4.13E-7	4.77E-7
AP	mol H+ eq	7.18E-3	1.83E-3	8.52E-4	9.87E-3	1.16E-4	1.11E-3	5.86E-6	-3.21E-3	7.88E-3
EP-fw	kg P eq	6.76E-5	3.27E-7	2.19E-6	7.01E-5	1.68E-7	7.93E-6	7.69E-9	-3.07E-5	4.75E-5
EP-m	kg N eq	1.19E-3	4.59E-4	1.68E-4	1.82E-3	4.16E-5	2.70E-4	3.99E-6	-5.56E-4	1.58E-3
EP-T	mol N eq	1.31E-2	5.10E-3	1.83E-3	2.00E-2	4.59E-4	2.97E-3	2.34E-5	-5.91E-3	1.76E-2
POCP	kg NMVOC eq	4.62E-3	1.33E-3	8.02E-4	6.75E-3	1.31E-4	8.93E-4	8.09E-6	-2.08E-3	5.70E-3
ADP-mm	kg Sb eq	8.49E-4	7.35E-7	3.86E-6	8.54E-4	5.28E-7	4.38E-6	5.88E-9	-1.71E-5	8.42E-4
ADP-f	MJ	4.05E+1	8.89E-1	1.74E+0	4.32E+1	3.14E-1	3.06E+0	1.76E-2	-2.11E+1	2.54E+1
WDP	m3 depriv.	2.43E+0	1.61E-3	5.28E-2	2.49E+0	9.62E-4	1.19E-1	1.18E-4	-1.20E+0	1.40E+0
PM	disease inc.	5.00E-8	2.82E-9	5.82E-9	5.86E-8	1.84E-9	1.39E-8	1.21E-10	-2.06E-8	5.39E-8
IR	kBq U-235 eq	8.79E-2	3.83E-3	4.30E-3	9.60E-2	1.37E-3	1.06E-2	8.10E-5	-3.87E-2	6.94E-2
ETP-fw	CTUe	3.21E+1	6.05E-1	4.56E+0	3.73E+1	2.55E-1	2.26E+1	2.51E-1	-1.15E+1	4.89E+1
HTP-c	CTUh	1.14E-9	3.63E-11	1.79E-10	1.36E-9	9.06E-12	3.43E-10	4.85E-13	-4.40E-10	1.27E-9
HTP-nc	CTUh	3.61E-8	5.46E-10	9.73E-9	4.64E-8	3.04E-10	8.06E-9	4.89E-11	-1.52E-8	3.96E-8
SQP	Pt	5.22E+0	2.62E-1	5.95E-1	6.07E+0	2.68E-1	1.91E+0	4.50E-2	-2.14E+0	6.16E+0
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	1.90E+0	7.49E-3	9.48E+0	1.14E+1	4.50E-3	2.18E-1	6.58E-4	-8.73E-1	1.07E+1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	1.90E+0	7.49E-3	9.48E+0	1.14E+1	4.50E-3	2.18E-1	6.58E-4	-8.73E-1	1.07E+1
PENRE	MJ	4.34E+1	9.43E-1	1.85E+0	4.62E+1	3.33E-1	3.25E+0	1.87E-2	-2.28E+1	2.71E+1
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	4.34E+1	9.43E-1	1.85E+0	4.62E+1	3.33E-1	3.25E+0	1.87E-2	-2.28E+1	2.71E+1
PET	MJ	4.53E+1	9.51E-1	1.13E+1	5.76E+1	3.37E-1	3.47E+0	1.93E-2	-2.36E+1	3.78E+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	2.78E-2	5.83E-5	1.54E-3	2.94E-2	3.55E-5	3.27E-3	2.15E-5	-1.27E-2	2.01E-2

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	1.27E-4	1.14E-6	1.57E-5	1.44E-4	8.02E-7	4.94E-6	2.14E-8	-1.67E-5	1.33E-4
NHWD	kg	1.46E-1	1.38E-2	3.23E-3	1.63E-1	1.94E-2	1.13E-1	7.78E-2	-6.39E-2	3.10E-1
RWD	kg	8.08E-5	6.15E-6	4.17E-6	9.11E-5	2.13E-6	1.14E-5	1.15E-7	-3.41E-5	7.07E-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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