

Environmental Profile

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

Ecochain v3.5.71



Product: 3036530 - OsmaDrain Access Cover BN 160 P/E
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	1.39E+0	5.98E-2	1.33E-1	1.58E+0	1.85E-2	5.07E-1	5.81E-3	-7.74E-1	1.34E+0
GWP-f	kg CO2 eq	1.38E+0	5.97E-2	1.29E-1	1.56E+0	1.85E-2	5.08E-1	5.81E-3	-7.68E-1	1.33E+0
GWP-b	kg CO2 eq	1.21E-2	-1.28E-5	3.13E-3	1.52E-2	1.12E-5	-5.05E-4	7.30E-6	-5.41E-3	9.32E-3
GWP-luluc	kg CO2 eq	1.15E-3	3.93E-5	1.13E-4	1.30E-3	6.55E-6	2.28E-4	1.55E-7	-5.02E-4	1.03E-3
ODP	kg CFC11 eq	7.67E-7	1.22E-8	1.14E-8	7.91E-7	4.26E-9	6.24E-8	2.18E-10	-3.90E-7	4.68E-7
AP	mol H+ eq	6.39E-3	1.79E-3	7.06E-4	8.89E-3	1.05E-4	1.05E-3	5.31E-6	-2.93E-3	7.12E-3
EP-fw	kg P eq	6.29E-5	2.69E-7	1.81E-6	6.49E-5	1.52E-7	7.62E-6	6.96E-9	-2.86E-5	4.41E-5
EP-m	kg N eq	1.08E-3	4.43E-4	1.37E-4	1.66E-3	3.77E-5	2.53E-4	3.28E-6	-5.06E-4	1.44E-3
EP-T	mol N eq	1.17E-2	4.92E-3	1.50E-3	1.81E-2	4.16E-4	2.78E-3	2.11E-5	-5.38E-3	1.60E-2
POCP	kg NMVOC eq	3.98E-3	1.28E-3	6.49E-4	5.91E-3	1.19E-4	8.34E-4	7.27E-6	-1.87E-3	5.00E-3
ADP-mm	kg Sb eq	8.09E-4	5.51E-7	3.25E-6	8.12E-4	4.79E-7	4.14E-6	5.33E-9	-1.59E-5	8.01E-4
ADP-f	MJ	3.51E+1	7.79E-1	1.43E+0	3.73E+1	2.84E-1	2.87E+0	1.59E-2	-1.87E+1	2.18E+1
WDP	m3 depriv.	2.32E+0	1.28E-3	4.29E-2	2.36E+0	8.72E-4	1.15E-1	1.09E-4	-1.12E+0	1.36E+0
PM	disease inc.	4.15E-8	2.18E-9	4.84E-9	4.85E-8	1.67E-9	1.29E-8	1.10E-10	-1.86E-8	4.47E-8
IR	kBq U-235 eq	7.65E-2	3.35E-3	3.48E-3	8.33E-2	1.24E-3	1.01E-2	7.31E-5	-3.61E-2	5.87E-2
ETP-fw	CTUe	2.98E+1	5.16E-1	3.80E+0	3.42E+1	2.31E-1	2.24E+1	2.48E-1	-1.08E+1	4.63E+1
HTP-c	CTUh	1.07E-9	3.31E-11	1.49E-10	1.25E-9	8.21E-12	3.20E-10	4.42E-13	-4.10E-10	1.17E-9
HTP-nc	CTUh	3.44E-8	4.41E-10	7.85E-9	4.27E-8	2.75E-10	7.74E-9	4.77E-11	-1.42E-8	3.66E-8
SQP	Pt	4.50E+0	1.70E-1	4.95E-1	5.17E+0	2.43E-1	1.76E+0	4.07E-2	-1.99E+0	5.22E+0
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	1.73E+0	5.92E-3	7.99E+0	9.73E+0	4.08E-3	2.09E-1	5.88E-4	-8.12E-1	9.13E+0
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	1.73E+0	5.92E-3	7.99E+0	9.73E+0	4.08E-3	2.09E-1	5.88E-4	-8.12E-1	9.13E+0
PENRE	MJ	3.77E+1	8.27E-1	1.52E+0	4.00E+1	3.02E-1	3.05E+0	1.69E-2	-2.02E+1	2.32E+1
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	3.77E+1	8.27E-1	1.52E+0	4.00E+1	3.02E-1	3.05E+0	1.69E-2	-2.02E+1	2.32E+1
PET	MJ	3.94E+1	8.33E-1	9.51E+0	4.97E+1	3.06E-1	3.26E+0	1.75E-2	-2.10E+1	3.24E+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	2.53E-2	4.60E-5	1.26E-3	2.66E-2	3.21E-5	3.14E-3	1.95E-5	-1.17E-2	1.81E-2

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	1.25E-4	8.58E-7	1.24E-5	1.38E-4	7.26E-7	4.62E-6	1.94E-8	-1.55E-5	1.28E-4
NHWD	kg	1.35E-1	7.13E-3	2.55E-3	1.44E-1	1.76E-2	1.04E-1	7.05E-2	-5.95E-2	2.77E-1
RWD	kg	6.67E-5	5.40E-6	3.28E-6	7.54E-5	1.93E-6	1.07E-5	1.04E-7	-3.18E-5	5.63E-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



Ecochain Technologies BV
H.J.E. Wenckebachweg 123, 1096 AM Amsterdam, The Netherlands
<https://www.ecochain.com>
+31 20 3035 777