

Environmental Profile

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

Ecochain v3.5.71



Product: 3036413 - OsmaS PVCU Hopper Head GY 110
Unit: 1 piece
Manufacturer: Wavin - UK - Chippenham - Verified

The Wavin Osma soil range offers an exceptional choice of pipe & fittings including brackets, bends, junctions, access fittings, and terminations. To connect to your soil system, we offer push-fit & solvent weld waste ranges, together with trap, overflow & condensate ranges to cover all installation needs.

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	1.78E+0	7.63E-2	1.03E-1	1.96E+0	2.38E-2	6.53E-1	7.46E-3	-9.96E-1	1.65E+0
GWP-f	kg CO2 eq	1.77E+0	7.63E-2	9.93E-2	1.94E+0	2.37E-2	6.54E-1	7.46E-3	-9.88E-1	1.64E+0
GWP-b	kg CO2 eq	1.53E-2	-1.62E-5	3.26E-3	1.86E-2	1.44E-5	-6.52E-4	9.34E-6	-6.96E-3	1.10E-2
GWP-luluc	kg CO2 eq	1.48E-3	5.02E-5	7.32E-5	1.60E-3	8.40E-6	2.92E-4	2.00E-7	-6.45E-4	1.26E-3
ODP	kg CFC11 eq	9.77E-7	1.55E-8	1.01E-8	1.00E-6	5.47E-9	7.96E-8	2.80E-10	-5.01E-7	5.87E-7
AP	mol H+ eq	8.25E-3	2.28E-3	5.10E-4	1.10E-2	1.35E-4	1.34E-3	6.81E-6	-3.77E-3	8.76E-3
EP-fw	kg P eq	8.06E-5	3.44E-7	1.34E-6	8.23E-5	1.95E-7	9.73E-6	8.98E-9	-3.68E-5	5.55E-5
EP-m	kg N eq	1.39E-3	5.64E-4	1.10E-4	2.06E-3	4.84E-5	3.24E-4	4.16E-6	-6.50E-4	1.79E-3
EP-T	mol N eq	1.51E-2	6.27E-3	1.17E-3	2.26E-2	5.33E-4	3.57E-3	2.71E-5	-6.91E-3	1.98E-2
POCP	kg NMVOC eq	5.11E-3	1.63E-3	5.53E-4	7.30E-3	1.52E-4	1.07E-3	9.33E-6	-2.40E-3	6.13E-3
ADP-mm	kg Sb eq	1.03E-3	7.07E-7	2.10E-6	1.04E-3	6.14E-7	5.30E-6	6.86E-9	-2.04E-5	1.02E-3
ADP-f	MJ	4.49E+1	9.94E-1	1.10E+0	4.70E+1	3.64E-1	3.67E+0	2.04E-2	-2.41E+1	2.70E+1
WDP	m3 depriv.	2.97E+0	1.64E-3	3.55E-2	3.01E+0	1.12E-3	1.46E-1	1.47E-4	-1.44E+0	1.72E+0
PM	disease inc.	5.36E-8	2.80E-9	3.40E-9	5.98E-8	2.14E-9	1.66E-8	1.41E-10	-2.38E-8	5.48E-8
IR	kBq U-235 eq	9.75E-2	4.28E-3	2.98E-3	1.05E-1	1.59E-3	1.29E-2	9.35E-5	-4.63E-2	7.31E-2
ETP-fw	CTUe	3.84E+1	6.60E-1	2.60E+0	4.17E+1	2.96E-1	2.85E+1	3.16E-1	-1.38E+1	5.70E+1
HTP-c	CTUh	1.37E-9	4.23E-11	1.02E-10	1.52E-9	1.05E-11	4.15E-10	5.71E-13	-5.26E-10	1.42E-9
HTP-nc	CTUh	4.41E-8	5.64E-10	6.84E-9	5.15E-8	3.53E-10	9.91E-9	6.09E-11	-1.82E-8	4.36E-8
SQP	Pt	5.76E+0	2.18E-1	3.48E-1	6.33E+0	3.12E-1	2.26E+0	5.22E-2	-2.56E+0	6.39E+0
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	2.22E+0	7.58E-3	5.07E+0	7.29E+0	5.23E-3	2.67E-1	7.49E-4	-1.04E+0	6.52E+0
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	2.22E+0	7.58E-3	5.07E+0	7.29E+0	5.23E-3	2.67E-1	7.49E-4	-1.04E+0	6.52E+0
PENRE	MJ	4.82E+1	1.06E+0	1.16E+0	5.04E+1	3.87E-1	3.91E+0	2.17E-2	-2.59E+1	2.88E+1
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	4.82E+1	1.06E+0	1.16E+0	5.04E+1	3.87E-1	3.91E+0	2.17E-2	-2.59E+1	2.88E+1
PET	MJ	5.04E+1	1.06E+0	6.23E+0	5.77E+1	3.92E-1	4.18E+0	2.24E-2	-2.70E+1	3.53E+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	3.26E-2	5.89E-5	9.95E-4	3.36E-2	4.12E-5	4.00E-3	2.49E-5	-1.50E-2	2.27E-2

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	1.60E-4	1.10E-6	1.26E-5	1.74E-4	9.32E-7	5.93E-6	2.50E-8	-2.00E-5	1.61E-4
NHWD	kg	1.73E-1	9.25E-3	2.52E-3	1.85E-1	2.26E-2	1.33E-1	9.03E-2	-7.65E-2	3.55E-1
RWD	kg	8.48E-5	6.90E-6	3.33E-6	9.50E-5	2.48E-6	1.37E-5	1.33E-7	-4.08E-5	7.05E-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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