

Environmental Profile

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

Ecochain v3.5.71



Product: 3024840 - OsmaS PVCU Vent Cowl BK 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	6.85E-1	2.95E-2	5.57E-2	7.71E-1	9.14E-3	2.51E-1	2.86E-3	-3.82E-1	6.51E-1
GWP-f	kg CO2 eq	6.79E-1	2.95E-2	5.39E-2	7.62E-1	9.13E-3	2.51E-1	2.86E-3	-3.79E-1	6.46E-1
GWP-b	kg CO2 eq	5.93E-3	-6.29E-6	1.77E-3	7.69E-3	5.55E-6	-2.50E-4	3.59E-6	-2.67E-3	4.78E-3
GWP-luluc	kg CO2 eq	5.63E-4	1.94E-5	3.98E-5	6.22E-4	3.23E-6	1.13E-4	7.62E-8	-2.48E-4	4.90E-4
ODP	kg CFC11 eq	3.81E-7	6.01E-9	5.47E-9	3.92E-7	2.10E-9	3.08E-8	1.07E-10	-1.92E-7	2.33E-7
AP	mol H+ eq	3.15E-3	8.82E-4	2.77E-4	4.30E-3	5.20E-5	5.18E-4	2.61E-6	-1.45E-3	3.43E-3
EP-fw	kg P eq	3.09E-5	1.33E-7	7.29E-7	3.17E-5	7.52E-8	3.76E-6	3.43E-9	-1.41E-5	2.15E-5
EP-m	kg N eq	5.31E-4	2.18E-4	5.96E-5	8.09E-4	1.86E-5	1.25E-4	1.60E-6	-2.50E-4	7.04E-4
EP-T	mol N eq	5.77E-3	2.43E-3	6.37E-4	8.83E-3	2.05E-4	1.37E-3	1.04E-5	-2.66E-3	7.77E-3
POCP	kg NMVOC eq	1.96E-3	6.31E-4	3.00E-4	2.90E-3	5.86E-5	4.12E-4	3.58E-6	-9.23E-4	2.45E-3
ADP-mm	kg Sb eq	4.02E-4	2.73E-7	1.14E-6	4.04E-4	2.36E-7	2.04E-6	2.63E-9	-7.83E-6	3.98E-4
ADP-f	MJ	1.75E+1	3.84E-1	5.95E-1	1.85E+1	1.40E-1	1.42E+0	7.85E-3	-9.25E+0	1.08E+1
WDP	m3 depriv.	1.14E+0	6.33E-4	1.93E-2	1.16E+0	4.30E-4	5.66E-2	5.39E-5	-5.52E-1	6.65E-1
PM	disease inc.	2.09E-8	1.08E-9	1.85E-9	2.39E-8	8.25E-10	6.39E-9	5.40E-11	-9.16E-9	2.20E-8
IR	kBq U-235 eq	3.84E-2	1.65E-3	1.62E-3	4.17E-2	6.13E-4	4.98E-3	3.60E-5	-1.78E-2	2.95E-2
ETP-fw	CTUe	1.47E+1	2.55E-1	1.41E+0	1.64E+1	1.14E-1	1.10E+1	1.22E-1	-5.31E+0	2.23E+1
HTP-c	CTUh	5.26E-10	1.64E-11	5.55E-11	5.97E-10	4.05E-12	1.59E-10	2.18E-13	-2.02E-10	5.58E-10
HTP-nc	CTUh	1.69E-8	2.18E-10	3.72E-9	2.09E-8	1.36E-10	3.82E-9	2.35E-11	-7.01E-9	1.78E-8
SQP	Pt	2.23E+0	8.41E-2	1.89E-1	2.51E+0	1.20E-1	8.70E-1	2.01E-2	-9.82E-1	2.53E+0
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	8.51E-1	2.93E-3	2.75E+0	3.61E+0	2.01E-3	1.03E-1	2.89E-4	-4.01E-1	3.31E+0
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	8.51E-1	2.93E-3	2.75E+0	3.61E+0	2.01E-3	1.03E-1	2.89E-4	-4.01E-1	3.31E+0
PENRE	MJ	1.88E+1	4.08E-1	6.32E-1	1.98E+1	1.49E-1	1.51E+0	8.33E-3	-9.96E+0	1.15E+1
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	1.88E+1	4.08E-1	6.32E-1	1.98E+1	1.49E-1	1.51E+0	8.33E-3	-9.96E+0	1.15E+1
PET	MJ	1.96E+1	4.11E-1	3.38E+0	2.34E+1	1.51E-1	1.61E+0	8.62E-3	-1.04E+1	1.48E+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	1.24E-2	2.27E-5	5.41E-4	1.29E-2	1.59E-5	1.54E-3	9.59E-6	-5.76E-3	8.75E-3

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	6.23E-5	4.24E-7	6.83E-6	6.96E-5	3.59E-7	2.28E-6	9.58E-9	-7.67E-6	6.46E-5
NHWD	kg	6.60E-2	3.55E-3	1.37E-3	7.09E-2	8.69E-3	5.13E-2	3.47E-2	-2.94E-2	1.36E-1
RWD	kg	3.41E-5	2.67E-6	1.81E-6	3.86E-5	9.54E-7	5.29E-6	5.10E-8	-1.57E-5	2.92E-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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