

Environmental Profile

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

Ecochain v3.5.71



Product: 3043016 - OsmaS PVCU Pipe Coupler WT 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	5.20E-1	9.95E-3	3.47E-2	5.65E-1	6.27E-3	1.80E-1	2.84E-3	-2.53E-1	5.01E-1
GWP-f	kg CO2 eq	5.05E-1	9.94E-3	3.37E-2	5.49E-1	6.26E-3	1.80E-1	2.84E-3	-2.51E-1	4.87E-1
GWP-b	kg CO2 eq	1.36E-2	5.94E-6	9.49E-4	1.45E-2	3.80E-6	-2.51E-4	2.20E-6	-1.77E-3	1.25E-2
GWP-luluc	kg CO2 eq	1.35E-3	3.55E-6	2.73E-5	1.38E-3	2.22E-6	3.52E-5	1.01E-7	-1.60E-4	1.26E-3
ODP	kg CFC11 eq	4.92E-8	2.29E-9	3.17E-9	5.47E-8	1.44E-9	4.60E-9	7.71E-11	-1.19E-7	-5.86E-8
AP	mol H+ eq	4.69E-3	5.98E-5	1.79E-4	4.92E-3	3.57E-5	1.89E-4	2.07E-6	-9.79E-4	4.17E-3
EP-fw	kg P eq	4.70E-5	8.13E-8	4.64E-7	4.75E-5	5.16E-8	1.02E-6	3.91E-9	-9.13E-6	3.94E-5
EP-m	kg N eq	8.99E-4	2.10E-5	3.64E-5	9.57E-4	1.28E-5	5.39E-5	1.07E-6	-1.67E-4	8.57E-4
EP-T	mol N eq	1.11E-2	2.31E-4	3.94E-4	1.17E-2	1.41E-4	5.91E-4	7.84E-6	-1.78E-3	1.07E-2
POCP	kg NMVOC eq	2.78E-3	6.58E-5	1.78E-4	3.02E-3	4.02E-5	1.87E-4	2.86E-6	-6.41E-4	2.61E-3
ADP-mm	kg Sb eq	8.92E-3	2.55E-7	7.85E-7	8.92E-3	1.62E-7	7.67E-7	2.49E-9	-5.09E-6	8.92E-3
ADP-f	MJ	9.52E+0	1.52E-1	3.73E-1	1.00E+1	9.62E-2	6.15E-1	5.82E-3	-6.48E+0	4.28E+0
WDP	m3 depriv.	5.19E-1	4.65E-4	1.16E-2	5.31E-1	2.95E-4	1.16E-2	2.05E-4	-3.61E-1	1.82E-1
PM	disease inc.	2.41E-8	8.90E-10	1.21E-9	2.62E-8	5.66E-10	3.13E-9	4.02E-11	-6.41E-9	2.35E-8
IR	kBq U-235 eq	4.73E-2	6.66E-4	9.56E-4	4.90E-2	4.20E-4	1.85E-3	2.39E-5	-1.15E-2	3.98E-2
ETP-fw	CTUe	8.66E+1	1.23E-1	9.42E-1	8.76E+1	7.81E-2	7.13E-1	5.59E-3	-3.41E+0	8.50E+1
HTP-c	CTUh	2.08E-9	4.42E-12	3.70E-11	2.12E-9	2.78E-12	1.81E-10	2.74E-13	-1.30E-10	2.17E-9
HTP-nc	CTUh	6.09E-8	1.47E-10	2.17E-9	6.32E-8	9.31E-11	1.28E-9	4.11E-12	-4.50E-9	6.01E-8
SQP	Pt	3.75E+0	1.29E-1	1.24E-1	4.00E+0	8.23E-2	4.90E-1	1.41E-2	-6.31E-1	3.96E+0
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	9.42E-1	2.17E-3	1.92E+0	2.86E+0	1.38E-3	3.01E-2	1.31E-4	-2.61E-1	2.63E+0
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	9.42E-1	2.17E-3	1.92E+0	2.86E+0	1.38E-3	3.01E-2	1.31E-4	-2.61E-1	2.63E+0
PENRE	MJ	1.01E+1	1.62E-1	3.96E-1	1.07E+1	1.02E-1	6.55E-1	6.18E-3	-6.97E+0	4.49E+0
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	1.01E+1	1.62E-1	3.96E-1	1.07E+1	1.02E-1	6.55E-1	6.18E-3	-6.97E+0	4.49E+0
PET	MJ	1.11E+1	1.64E-1	2.31E+0	1.36E+1	1.03E-1	6.85E-1	6.31E-3	-7.23E+0	7.12E+0
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	1.46E-2	1.71E-5	3.33E-4	1.50E-2	1.09E-5	3.58E-4	6.33E-6	-3.83E-3	1.15E-2

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	1.13E-3	3.87E-7	3.70E-6	1.14E-3	2.46E-7	1.10E-6	8.53E-9	-4.67E-6	1.13E-3
NHWD	kg	8.35E-2	9.35E-3	7.53E-4	9.36E-2	5.96E-3	3.12E-2	2.39E-2	-1.90E-2	1.36E-1
RWD	kg	3.86E-5	1.04E-6	9.81E-7	4.07E-5	6.54E-7	2.34E-6	3.56E-8	-1.01E-5	3.36E-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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