

Environmental Profile

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

Ecochain v3.5.71



Product: 3037558 - OsmaS PVCU Pipe WT 110 L=3 S/S
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	5.92E+0	2.86E-1	6.93E-1	6.90E+0	1.43E-1	5.12E+0	4.15E-2	-2.71E+0	9.49E+0
GWP-f	kg CO2 eq	6.84E+0	2.85E-1	6.65E-1	7.79E+0	1.43E-1	3.99E+0	4.15E-2	-2.69E+0	9.28E+0
GWP-b	kg CO2 eq	-9.27E-1	-1.39E-5	2.77E-2	-8.99E-1	8.67E-5	1.12E+0	5.31E-5	-1.37E-2	2.10E-1
GWP-luluc	kg CO2 eq	6.64E-3	1.70E-4	4.02E-4	7.21E-3	5.05E-5	1.71E-3	1.11E-6	-1.44E-3	7.54E-3
ODP	kg CFC11 eq	3.06E-6	5.97E-8	7.65E-8	3.20E-6	3.29E-8	4.63E-7	1.64E-9	-1.04E-6	2.66E-6
AP	mol H+ eq	4.16E-2	7.15E-3	3.21E-3	5.19E-2	8.13E-4	8.02E-3	3.95E-5	-8.37E-3	5.24E-2
EP-fw	kg P eq	3.37E-4	1.50E-6	8.69E-6	3.47E-4	1.18E-6	5.70E-5	5.03E-8	-7.38E-5	3.32E-4
EP-m	kg N eq	5.83E-3	1.81E-3	7.66E-4	8.40E-3	2.91E-4	1.97E-3	2.43E-5	-1.59E-3	9.09E-3
EP-T	mol N eq	6.30E-2	2.01E-2	8.03E-3	9.11E-2	3.21E-3	2.17E-2	1.58E-4	-1.78E-2	9.83E-2
POCP	kg NMVOC eq	2.13E-2	5.25E-3	4.08E-3	3.06E-2	9.17E-4	6.50E-3	5.39E-5	-5.77E-3	3.23E-2
ADP-mm	kg Sb eq	1.82E-3	3.59E-6	1.14E-5	1.84E-3	3.69E-6	3.14E-5	3.93E-8	-4.01E-5	1.83E-3
ADP-f	MJ	1.62E+2	3.85E+0	7.33E+0	1.73E+2	2.19E+0	2.18E+1	1.19E-1	-5.97E+1	1.38E+2
WDP	m3 depriv.	9.91E+0	7.60E-3	2.55E-1	1.02E+1	6.73E-3	8.53E-1	7.05E-4	-2.81E+0	8.22E+0
PM	disease inc.	3.04E-7	1.35E-8	2.07E-8	3.38E-7	1.29E-8	9.99E-8	8.18E-10	-5.71E-8	3.94E-7
IR	kBq U-235 eq	4.22E-1	1.66E-2	2.22E-2	4.61E-1	9.58E-3	7.65E-2	5.47E-4	-9.45E-2	4.53E-1
ETP-fw	CTUe	1.47E+2	2.69E+0	1.53E+1	1.65E+2	1.78E+0	1.64E+2	1.81E+0	-3.27E+1	3.00E+2
HTP-c	CTUh	6.47E-9	1.52E-10	6.02E-10	7.22E-9	6.33E-11	2.47E-9	3.16E-12	-1.13E-9	8.62E-9
HTP-nc	CTUh	1.57E-7	2.54E-9	5.14E-8	2.11E-7	2.12E-9	5.80E-8	3.48E-10	-3.77E-8	2.34E-7
SQP	Pt	1.30E+2	1.40E+0	2.12E+0	1.34E+2	1.88E+0	1.36E+1	3.03E-1	-2.71E+1	1.22E+2
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	2.50E+1	3.53E-2	2.68E+1	5.19E+1	3.14E-2	1.57E+0	4.34E-3	-6.45E+0	4.70E+1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	2.50E+1	3.53E-2	2.68E+1	5.19E+1	3.14E-2	1.57E+0	4.34E-3	-6.45E+0	4.70E+1
PENRE	MJ	1.73E+2	4.09E+0	7.78E+0	1.85E+2	2.33E+0	2.32E+1	1.27E-1	-6.47E+1	1.46E+2
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	1.73E+2	4.09E+0	7.78E+0	1.85E+2	2.33E+0	2.32E+1	1.27E-1	-6.47E+1	1.46E+2
PET	MJ	1.98E+2	4.13E+0	3.46E+1	2.37E+2	2.36E+0	2.48E+1	1.31E-1	-7.12E+1	1.93E+2
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	1.28E-1	2.75E-4	6.88E-3	1.35E-1	2.48E-4	2.35E-2	1.46E-4	-3.01E-2	1.29E-1

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	3.40E-4	5.53E-6	1.05E-4	4.51E-4	5.61E-6	3.53E-5	1.44E-7	-5.45E-5	4.37E-4
NHWD	kg	1.16E+0	8.20E-2	2.08E-2	1.26E+0	1.36E-1	8.28E-1	5.44E-1	-1.61E-1	2.61E+0
RWD	kg	3.73E-4	2.66E-5	2.78E-5	4.27E-4	1.49E-5	8.21E-5	7.79E-7	-8.56E-5	4.39E-4
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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