

Environmental Profile

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

Ecochain v3.5.71



Product: 3036780 - OsmaS PVCU Bossed Acc Pipe WT 110 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	1.54E+0	1.97E-2	1.66E-1	1.72E+0	1.86E-2	5.28E-1	8.44E-3	-7.31E-1	1.55E+0
GWP-f	kg CO2 eq	1.48E+0	1.97E-2	1.63E-1	1.66E+0	1.86E-2	5.28E-1	8.45E-3	-7.25E-1	1.49E+0
GWP-b	kg CO2 eq	5.23E-2	1.19E-5	3.35E-3	5.57E-2	1.13E-5	-7.48E-4	6.21E-6	-5.48E-3	4.95E-2
GWP-luluc	kg CO2 eq	4.76E-3	6.98E-6	1.50E-4	4.92E-3	6.58E-6	1.04E-4	3.34E-7	-5.06E-4	4.53E-3
ODP	kg CFC11 eq	1.23E-7	4.54E-9	1.34E-8	1.41E-7	4.29E-9	1.36E-8	2.31E-10	-3.86E-7	-2.27E-7
AP	mol H+ eq	1.52E-2	1.14E-4	9.07E-4	1.62E-2	1.06E-4	5.55E-4	6.35E-6	-2.95E-3	1.39E-2
EP-fw	kg P eq	1.61E-4	1.62E-7	2.30E-6	1.64E-4	1.53E-7	3.01E-6	1.27E-8	-2.89E-5	1.38E-4
EP-m	kg N eq	3.03E-3	4.05E-5	1.69E-4	3.24E-3	3.79E-5	1.59E-4	2.34E-6	-5.02E-4	2.94E-3
EP-T	mol N eq	3.78E-2	4.46E-4	1.86E-3	4.01E-2	4.18E-4	1.74E-3	2.37E-5	-5.33E-3	3.69E-2
POCP	kg NMVOC eq	8.71E-3	1.27E-4	7.79E-4	9.62E-3	1.19E-4	5.51E-4	8.63E-6	-1.87E-3	8.43E-3
ADP-mm	kg Sb eq	3.27E-2	5.08E-7	4.34E-6	3.27E-2	4.81E-7	2.27E-6	7.89E-9	-1.61E-5	3.26E-2
ADP-f	MJ	2.26E+1	3.02E-1	1.80E+0	2.47E+1	2.85E-1	1.82E+0	1.75E-2	-1.83E+1	8.58E+0
WDP	m3 depriv.	1.63E+0	9.26E-4	5.22E-2	1.68E+0	8.76E-4	3.37E-2	7.32E-4	-1.13E+0	5.88E-1
PM	disease inc.	6.91E-8	1.77E-9	6.28E-9	7.71E-8	1.68E-9	9.27E-9	1.21E-10	-1.89E-8	6.93E-8
IR	kBq U-235 eq	1.48E-1	1.32E-3	4.16E-3	1.54E-1	1.25E-3	5.47E-3	6.96E-5	-3.62E-2	1.24E-1
ETP-fw	CTUe	3.13E+2	2.45E-1	4.98E+0	3.18E+2	2.32E-1	2.06E+0	1.50E-2	-1.08E+1	3.09E+2
HTP-c	CTUh	7.44E-9	8.74E-12	1.95E-10	7.64E-9	8.25E-12	6.12E-10	9.08E-13	-4.10E-10	7.85E-9
HTP-nc	CTUh	2.20E-7	2.92E-10	9.31E-9	2.29E-7	2.76E-10	3.98E-9	1.24E-11	-1.43E-8	2.19E-7
SQP	Pt	1.22E+1	2.58E-1	6.43E-1	1.31E+1	2.44E-1	1.45E+0	4.19E-2	-1.99E+0	1.29E+1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	3.07E+0	4.33E-3	1.07E+1	1.38E+1	4.10E-3	8.92E-2	3.20E-4	-8.20E-1	1.31E+1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	3.07E+0	4.33E-3	1.07E+1	1.38E+1	4.10E-3	8.92E-2	3.20E-4	-8.20E-1	1.31E+1
PENRE	MJ	2.41E+1	3.21E-1	1.91E+0	2.63E+1	3.03E-1	1.94E+0	1.86E-2	-1.96E+1	8.92E+0
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	2.41E+1	3.21E-1	1.91E+0	2.63E+1	3.03E-1	1.94E+0	1.86E-2	-1.96E+1	8.92E+0
PET	MJ	2.71E+1	3.25E-1	1.26E+1	4.01E+1	3.07E-1	2.03E+0	1.90E-2	-2.05E+1	2.20E+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	4.77E-2	3.41E-5	1.56E-3	4.93E-2	3.23E-5	1.01E-3	1.85E-5	-1.18E-2	3.86E-2

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	4.15E-3	7.71E-7	1.35E-5	4.17E-3	7.30E-7	3.30E-6	2.67E-8	-1.44E-5	4.16E-3
NHWD	kg	2.75E-1	1.87E-2	2.82E-3	2.96E-1	1.77E-2	9.27E-2	7.09E-2	-5.99E-2	4.18E-1
RWD	kg	1.10E-4	2.05E-6	3.58E-6	1.16E-4	1.94E-6	6.94E-6	1.06E-7	-3.18E-5	9.31E-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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