

Environmental Profile

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

Ecochain v3.5.71



Product: 3035681 - OsmaS PVCU Pipe Bracket 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	1.80E-1	2.07E-3	1.28E-2	1.95E-1	2.16E-3	6.32E-2	9.80E-4	-8.58E-2	1.76E-1
GWP-f	kg CO2 eq	1.74E-1	2.07E-3	1.24E-2	1.88E-1	2.16E-3	6.33E-2	9.80E-4	-8.52E-2	1.69E-1
GWP-b	kg CO2 eq	6.29E-3	1.26E-6	4.07E-4	6.70E-3	1.31E-6	-8.69E-5	7.12E-7	-6.43E-4	5.97E-3
GWP-luluc	kg CO2 eq	5.73E-4	7.33E-7	9.15E-6	5.83E-4	7.64E-7	1.21E-5	3.96E-8	-5.96E-5	5.36E-4
ODP	kg CFC11 eq	1.37E-8	4.78E-10	1.26E-9	1.54E-8	4.97E-10	1.58E-9	2.68E-11	-4.57E-8	-2.82E-8
AP	mol H+ eq	1.80E-3	1.18E-5	6.38E-5	1.88E-3	1.23E-5	6.47E-5	7.41E-7	-3.44E-4	1.61E-3
EP-fw	kg P eq	1.94E-5	1.71E-8	1.68E-7	1.95E-5	1.78E-8	3.50E-7	1.50E-9	-3.40E-6	1.65E-5
EP-m	kg N eq	3.62E-4	4.22E-6	1.37E-5	3.80E-4	4.40E-6	1.85E-5	2.50E-7	-5.88E-5	3.45E-4
EP-T	mol N eq	4.52E-3	4.65E-5	1.47E-4	4.71E-3	4.85E-5	2.03E-4	2.76E-6	-6.24E-4	4.34E-3
POCP	kg NMVOC eq	1.03E-3	1.33E-5	6.91E-5	1.11E-3	1.39E-5	6.43E-5	1.00E-6	-2.17E-4	9.76E-4
ADP-mm	kg Sb eq	3.94E-3	5.36E-8	2.62E-7	3.94E-3	5.58E-8	2.65E-7	9.27E-10	-1.89E-6	3.94E-3
ADP-f	MJ	2.56E+0	3.18E-2	1.37E-1	2.73E+0	3.31E-2	2.12E-1	2.04E-3	-2.13E+0	8.52E-1
WDP	m3 depriv.	1.93E-1	9.76E-5	4.43E-3	1.98E-1	1.02E-4	3.90E-3	8.79E-5	-1.33E-1	6.88E-2
PM	disease inc.	8.02E-9	1.87E-10	4.25E-10	8.63E-9	1.95E-10	1.08E-9	1.41E-11	-2.19E-9	7.73E-9
IR	kBq U-235 eq	1.74E-2	1.39E-4	3.73E-4	1.79E-2	1.45E-4	6.37E-4	8.04E-6	-4.26E-3	1.45E-2
ETP-fw	CTUe	3.77E+1	2.58E-2	3.25E-1	3.80E+1	2.69E-2	2.38E-1	1.69E-3	-1.27E+0	3.70E+1
HTP-c	CTUh	8.94E-10	9.19E-13	1.28E-11	9.08E-10	9.57E-13	7.31E-11	1.08E-13	-4.83E-11	9.34E-10
HTP-nc	CTUh	2.65E-8	3.08E-11	8.55E-10	2.73E-8	3.21E-11	4.69E-10	1.45E-12	-1.68E-9	2.62E-8
SQP	Pt	1.45E+0	2.72E-2	4.35E-2	1.52E+0	2.83E-2	1.69E-1	4.86E-3	-2.34E-1	1.49E+0
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	3.65E-1	4.56E-4	6.34E-1	9.99E-1	4.75E-4	1.04E-2	3.54E-5	-9.64E-2	9.14E-1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	3.65E-1	4.56E-4	6.34E-1	9.99E-1	4.75E-4	1.04E-2	3.54E-5	-9.64E-2	9.14E-1
PENRE	MJ	2.72E+0	3.38E-2	1.45E-1	2.90E+0	3.52E-2	2.26E-1	2.17E-3	-2.29E+0	8.81E-1
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	2.72E+0	3.38E-2	1.45E-1	2.90E+0	3.52E-2	2.26E-1	2.17E-3	-2.29E+0	8.81E-1
PET	MJ	3.09E+0	3.42E-2	7.79E-1	3.90E+0	3.57E-2	2.36E-1	2.20E-3	-2.38E+0	1.79E+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	5.68E-3	3.60E-6	1.24E-4	5.81E-3	3.75E-6	1.16E-4	2.14E-6	-1.38E-3	4.55E-3

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	5.01E-4	8.13E-8	1.57E-6	5.03E-4	8.47E-8	3.85E-7	3.13E-9	-1.72E-6	5.02E-4
NHWD	kg	3.24E-2	1.97E-3	3.16E-4	3.47E-2	2.05E-3	1.09E-2	8.22E-3	-7.05E-3	4.89E-2
RWD	kg	1.27E-5	2.16E-7	4.16E-7	1.33E-5	2.25E-7	8.08E-7	1.22E-8	-3.74E-6	1.06E-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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