

Environmental Profile

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

Ecochain v3.5.71



Product: 3032494 - OsmaS PP Easifit Pan Conn WT 4"
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	5.66E-1	1.05E-2	5.37E-2	6.30E-1	4.12E-3	4.18E-1	2.54E-3	-2.63E-1	7.92E-1
GWP-f	kg CO2 eq	5.71E-1	1.04E-2	5.25E-2	6.34E-1	4.12E-3	4.18E-1	2.54E-3	-2.63E-1	7.96E-1
GWP-b	kg CO2 eq	-5.61E-3	6.00E-6	1.15E-3	-4.45E-3	2.50E-6	-8.43E-5	2.39E-6	-3.00E-4	-4.83E-3
GWP-luluc	kg CO2 eq	3.48E-4	3.81E-6	4.74E-5	3.99E-4	1.46E-6	1.71E-5	4.74E-8	-3.68E-5	3.81E-4
ODP	kg CFC11 eq	8.48E-8	2.39E-9	4.44E-9	9.16E-8	9.49E-10	2.75E-9	6.68E-11	-2.32E-8	7.22E-8
AP	mol H+ eq	3.12E-3	7.07E-5	2.90E-4	3.48E-3	2.35E-5	1.34E-4	1.63E-6	-4.87E-4	3.16E-3
EP-fw	kg P eq	1.59E-5	8.41E-8	7.39E-7	1.68E-5	3.39E-8	5.19E-7	2.16E-9	-1.97E-6	1.54E-5
EP-m	kg N eq	4.56E-4	2.38E-5	5.50E-5	5.34E-4	8.39E-6	4.35E-5	2.19E-6	-9.88E-5	4.90E-4
EP-T	mol N eq	5.15E-3	2.63E-4	6.04E-4	6.02E-3	9.25E-5	4.80E-4	6.54E-6	-1.09E-3	5.50E-3
POCP	kg NMVOC eq	2.31E-3	7.41E-5	2.56E-4	2.64E-3	2.64E-5	1.37E-4	2.41E-6	-4.58E-4	2.35E-3
ADP-mm	kg Sb eq	1.29E-4	2.62E-7	1.37E-6	1.30E-4	1.07E-7	3.88E-7	1.62E-9	-5.02E-6	1.26E-4
ADP-f	MJ	1.70E+1	1.59E-1	5.81E-1	1.78E+1	6.32E-2	3.17E-1	4.90E-3	-6.25E+0	1.19E+1
WDP	m3 depriv.	3.87E-1	4.79E-4	1.71E-2	4.04E-1	1.94E-4	9.03E-3	2.64E-5	-8.02E-2	3.33E-1
PM	disease inc.	3.15E-8	9.18E-10	2.00E-9	3.44E-8	3.72E-10	1.66E-9	3.35E-11	-3.73E-9	3.27E-8
IR	kBq U-235 eq	3.38E-2	6.96E-4	1.37E-3	3.59E-2	2.76E-4	9.44E-4	2.32E-5	-3.56E-3	3.36E-2
ETP-fw	CTUe	9.11E+0	1.28E-1	1.58E+0	1.08E+1	5.13E-2	8.31E-1	7.55E-3	-8.76E-1	1.08E+1
HTP-c	CTUh	2.93E-10	4.67E-12	6.21E-11	3.60E-10	1.83E-12	4.40E-11	1.27E-13	-3.58E-11	3.70E-10
HTP-nc	CTUh	6.31E-9	1.52E-10	3.08E-9	9.53E-9	6.12E-11	6.96E-10	3.50E-12	-8.66E-10	9.43E-9
SQP	Pt	2.47E+0	1.32E-1	2.05E-1	2.81E+0	5.41E-2	2.35E-1	1.25E-2	-2.30E-1	2.88E+0
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	5.30E-1	2.24E-3	3.38E+0	3.91E+0	9.07E-4	1.56E-2	2.08E-4	-6.83E-2	3.86E+0
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	5.30E-1	2.24E-3	3.38E+0	3.91E+0	9.07E-4	1.56E-2	2.08E-4	-6.83E-2	3.86E+0
PENRE	MJ	1.82E+1	1.69E-1	6.17E-1	1.90E+1	6.71E-2	3.38E-1	5.20E-3	-6.80E+0	1.26E+1
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	1.82E+1	1.69E-1	6.17E-1	1.90E+1	6.71E-2	3.38E-1	5.20E-3	-6.80E+0	1.26E+1
PET	MJ	1.87E+1	1.71E-1	4.00E+0	2.29E+1	6.80E-2	3.54E-1	5.40E-3	-6.87E+0	1.65E+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	8.51E-3	1.77E-5	5.06E-4	9.04E-3	7.15E-6	5.67E-4	6.06E-6	-1.31E-3	8.31E-3

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	6.77E-6	3.98E-7	4.62E-6	1.18E-5	1.62E-7	7.12E-7	5.89E-9	-3.82E-6	8.84E-6
NHWD	kg	5.87E-2	9.55E-3	9.59E-4	6.92E-2	3.92E-3	2.19E-2	2.14E-2	-4.70E-3	1.12E-1
RWD	kg	4.30E-5	1.08E-6	1.22E-6	4.53E-5	4.30E-7	1.19E-6	3.21E-8	-3.92E-6	4.31E-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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