

Environmental Profile

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

Ecochain v3.5.71



Product: 3032495 - OsmaS PP Easifit Pan Conn Of 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	5.58E-1	1.01E-2	1.10E-1	6.78E-1	4.02E-3	4.15E-1	2.49E-3	-2.58E-1	8.41E-1
GWP-f	kg CO2 eq	5.63E-1	1.01E-2	1.09E-1	6.82E-1	4.01E-3	4.15E-1	2.49E-3	-2.58E-1	8.46E-1
GWP-b	kg CO2 eq	-5.64E-3	5.81E-6	9.74E-4	-4.66E-3	2.44E-6	-8.00E-5	2.34E-6	-2.83E-4	-5.02E-3
GWP-luluc	kg CO2 eq	3.46E-4	3.68E-6	1.19E-4	4.69E-4	1.42E-6	1.65E-5	4.65E-8	-3.59E-5	4.51E-4
ODP	kg CFC11 eq	8.47E-8	2.32E-9	6.98E-9	9.40E-8	9.25E-10	2.67E-9	6.55E-11	-2.30E-8	7.46E-8
AP	mol H+ eq	3.10E-3	6.83E-5	6.51E-4	3.82E-3	2.29E-5	1.31E-4	1.60E-6	-4.74E-4	3.50E-3
EP-fw	kg P eq	1.58E-5	8.14E-8	1.60E-6	1.75E-5	3.30E-8	5.02E-7	2.12E-9	-1.91E-6	1.61E-5
EP-m	kg N eq	4.51E-4	2.30E-5	1.06E-4	5.80E-4	8.18E-6	4.25E-5	2.17E-6	-9.64E-5	5.37E-4
EP-T	mol N eq	5.10E-3	2.54E-4	1.21E-3	6.56E-3	9.01E-5	4.70E-4	6.42E-6	-1.07E-3	6.06E-3
POCP	kg NMVOC eq	2.29E-3	7.16E-5	4.39E-4	2.80E-3	2.58E-5	1.34E-4	2.37E-6	-4.46E-4	2.51E-3
ADP-mm	kg Sb eq	1.29E-4	2.54E-7	3.47E-6	1.32E-4	1.04E-7	3.76E-7	1.59E-9	-4.99E-6	1.28E-4
ADP-f	MJ	1.68E+1	1.54E-1	1.21E+0	1.81E+1	6.16E-2	3.07E-1	4.81E-3	-6.09E+0	1.24E+1
WDP	m3 depriv.	3.81E-1	4.64E-4	3.11E-2	4.13E-1	1.89E-4	8.83E-3	2.60E-5	-7.75E-2	3.44E-1
PM	disease inc.	3.12E-8	8.88E-10	4.65E-9	3.68E-8	3.62E-10	1.60E-9	3.29E-11	-3.62E-9	3.52E-8
IR	kBq U-235 eq	3.37E-2	6.73E-4	2.31E-3	3.67E-2	2.69E-4	9.13E-4	2.28E-5	-3.49E-3	3.44E-2
ETP-fw	CTUe	9.07E+0	1.24E-1	3.79E+0	1.30E+1	5.00E-2	8.19E-1	7.48E-3	-8.57E-1	1.30E+1
HTP-c	CTUh	2.91E-10	4.51E-12	1.48E-10	4.44E-10	1.78E-12	4.27E-11	1.25E-13	-3.50E-11	4.54E-10
HTP-nc	CTUh	6.26E-9	1.47E-10	5.01E-9	1.14E-8	5.96E-11	6.79E-10	3.45E-12	-8.43E-10	1.13E-8
SQP	Pt	2.46E+0	1.28E-1	4.76E-1	3.07E+0	5.27E-2	2.27E-1	1.23E-2	-2.26E-1	3.13E+0
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	5.26E-1	2.17E-3	8.72E+0	9.25E+0	8.84E-4	1.51E-2	2.05E-4	-6.64E-2	9.20E+0
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	5.26E-1	2.17E-3	8.72E+0	9.25E+0	8.84E-4	1.51E-2	2.05E-4	-6.64E-2	9.20E+0
PENRE	MJ	1.79E+1	1.64E-1	1.28E+0	1.93E+1	6.54E-2	3.28E-1	5.10E-3	-6.63E+0	1.31E+1
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	1.79E+1	1.64E-1	1.28E+0	1.93E+1	6.54E-2	3.28E-1	5.10E-3	-6.63E+0	1.31E+1
PET	MJ	1.84E+1	1.66E-1	1.00E+1	2.86E+1	6.63E-2	3.43E-1	5.30E-3	-6.70E+0	2.23E+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	8.43E-3	1.71E-5	9.97E-4	9.44E-3	6.97E-6	5.61E-4	5.95E-6	-1.27E-3	8.75E-3

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	6.74E-6	3.86E-7	4.50E-6	1.16E-5	1.58E-7	6.95E-7	5.78E-9	-3.79E-6	8.70E-6
NHWD	kg	5.84E-2	9.25E-3	1.05E-3	6.87E-2	3.82E-3	2.14E-2	2.10E-2	-4.58E-3	1.10E-1
RWD	kg	4.29E-5	1.05E-6	1.19E-6	4.51E-5	4.19E-7	1.15E-6	3.15E-8	-3.86E-6	4.29E-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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