

Environmental Profile

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

Ecochain v3.5.71



Product: 3035887 - OsmaS PVCU Socket Plug WT 110 P/E
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	4.84E-1	5.57E-3	2.69E-2	5.17E-1	5.80E-3	1.70E-1	2.63E-3	-2.31E-1	4.65E-1
GWP-f	kg CO2 eq	4.66E-1	5.56E-3	2.60E-2	4.98E-1	5.79E-3	1.70E-1	2.63E-3	-2.29E-1	4.48E-1
GWP-b	kg CO2 eq	1.69E-2	3.38E-6	8.55E-4	1.77E-2	3.52E-6	-2.33E-4	1.91E-6	-1.73E-3	1.58E-2
GWP-luluc	kg CO2 eq	1.54E-3	1.97E-6	1.92E-5	1.56E-3	2.05E-6	3.26E-5	1.06E-7	-1.60E-4	1.43E-3
ODP	kg CFC11 eq	3.68E-8	1.28E-9	2.64E-9	4.07E-8	1.33E-9	4.25E-9	7.20E-11	-1.23E-7	-7.64E-8
AP	mol H+ eq	4.83E-3	3.17E-5	1.34E-4	5.00E-3	3.30E-5	1.74E-4	1.99E-6	-9.24E-4	4.28E-3
EP-fw	kg P eq	5.19E-5	4.58E-8	3.52E-7	5.23E-5	4.77E-8	9.39E-7	4.02E-9	-9.12E-6	4.42E-5
EP-m	kg N eq	9.72E-4	1.13E-5	2.88E-5	1.01E-3	1.18E-5	4.97E-5	6.71E-7	-1.58E-4	9.16E-4
EP-T	mol N eq	1.21E-2	1.25E-4	3.08E-4	1.25E-2	1.30E-4	5.45E-4	7.40E-6	-1.68E-3	1.16E-2
POCP	kg NMVOC eq	2.77E-3	3.57E-5	1.45E-4	2.95E-3	3.72E-5	1.73E-4	2.69E-6	-5.83E-4	2.58E-3
ADP-mm	kg Sb eq	1.06E-2	1.44E-7	5.50E-7	1.06E-2	1.50E-7	7.10E-7	2.49E-9	-5.06E-6	1.06E-2
ADP-f	MJ	6.89E+0	8.54E-2	2.87E-1	7.26E+0	8.89E-2	5.69E-1	5.48E-3	-5.71E+0	2.22E+0
WDP	m3 depriv.	5.19E-1	2.62E-4	9.31E-3	5.28E-1	2.73E-4	1.05E-2	2.36E-4	-3.57E-1	1.83E-1
PM	disease inc.	2.15E-8	5.02E-10	8.92E-10	2.29E-8	5.23E-10	2.90E-9	3.79E-11	-5.89E-9	2.05E-8
IR	kBq U-235 eq	4.68E-2	3.73E-4	7.83E-4	4.79E-2	3.89E-4	1.71E-3	2.16E-5	-1.14E-2	3.86E-2
ETP-fw	CTUe	1.01E+2	6.94E-2	6.82E-1	1.02E+2	7.22E-2	6.40E-1	4.54E-3	-3.41E+0	9.91E+1
HTP-c	CTUh	2.40E-9	2.47E-12	2.68E-11	2.43E-9	2.57E-12	1.96E-10	2.89E-13	-1.30E-10	2.50E-9
HTP-nc	CTUh	7.10E-8	8.27E-11	1.79E-9	7.28E-8	8.61E-11	1.26E-9	3.88E-12	-4.52E-9	6.97E-8
SQP	Pt	3.89E+0	7.31E-2	9.12E-2	4.05E+0	7.61E-2	4.54E-1	1.30E-2	-6.28E-1	3.97E+0
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	9.80E-1	1.23E-3	1.33E+0	2.31E+0	1.28E-3	2.78E-2	9.51E-5	-2.59E-1	2.08E+0
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	9.80E-1	1.23E-3	1.33E+0	2.31E+0	1.28E-3	2.78E-2	9.51E-5	-2.59E-1	2.08E+0
PENRE	MJ	7.32E+0	9.07E-2	3.05E-1	7.72E+0	9.44E-2	6.07E-1	5.82E-3	-6.14E+0	2.29E+0
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	7.32E+0	9.07E-2	3.05E-1	7.72E+0	9.44E-2	6.07E-1	5.82E-3	-6.14E+0	2.29E+0
PET	MJ	8.30E+0	9.19E-2	1.63E+0	1.00E+1	9.56E-2	6.34E-1	5.92E-3	-6.40E+0	4.37E+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	1.53E-2	9.67E-6	2.61E-4	1.55E-2	1.01E-5	3.12E-4	5.75E-6	-3.71E-3	1.21E-2

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	1.35E-3	2.18E-7	3.30E-6	1.35E-3	2.27E-7	1.03E-6	8.40E-9	-4.62E-6	1.35E-3
NHWD	kg	8.67E-2	5.29E-3	6.62E-4	9.26E-2	5.51E-3	2.93E-2	2.21E-2	-1.89E-2	1.31E-1
RWD	kg	3.41E-5	5.81E-7	8.74E-7	3.56E-5	6.05E-7	2.17E-6	3.28E-8	-1.00E-5	2.83E-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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