

Environmental Profile

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

Ecochain v3.5.71



Product: 3032456 - OsmaS PVCU Double Socket GY 82 D/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	4.27E-1	1.48E-2	4.52E-2	4.87E-1	4.86E-3	2.11E-1	1.81E-3	-2.26E-1	4.79E-1
GWP-f	kg CO2 eq	4.25E-1	1.48E-2	4.42E-2	4.85E-1	4.85E-3	2.11E-1	1.81E-3	-2.24E-1	4.78E-1
GWP-b	kg CO2 eq	1.04E-3	-1.53E-6	9.59E-4	2.00E-3	2.95E-6	-1.24E-4	2.10E-6	-1.22E-3	6.63E-4
GWP-luluc	kg CO2 eq	3.33E-4	9.16E-6	4.01E-5	3.82E-4	1.72E-6	5.22E-5	4.43E-8	-1.16E-4	3.20E-4
ODP	kg CFC11 eq	1.85E-7	3.07E-9	3.72E-9	1.92E-7	1.12E-9	1.39E-8	6.18E-11	-8.99E-8	1.17E-7
AP	mol H+ eq	2.05E-3	3.96E-4	2.45E-4	2.69E-3	2.76E-5	2.54E-4	1.51E-6	-7.33E-4	2.24E-3
EP-fw	kg P eq	1.72E-5	7.42E-8	6.23E-7	1.79E-5	3.99E-8	1.74E-6	2.00E-9	-6.59E-6	1.31E-5
EP-m	kg N eq	3.37E-4	9.92E-5	4.63E-5	4.83E-4	9.89E-6	6.38E-5	1.22E-6	-1.30E-4	4.27E-4
EP-T	mol N eq	3.75E-3	1.10E-3	5.08E-4	5.36E-3	1.09E-4	7.03E-4	6.01E-6	-1.39E-3	4.78E-3
POCP	kg NMVOC eq	1.39E-3	2.88E-4	2.15E-4	1.89E-3	3.12E-5	2.09E-4	2.10E-6	-4.98E-4	1.64E-3
ADP-mm	kg Sb eq	2.10E-4	1.70E-7	1.16E-6	2.11E-4	1.26E-7	9.66E-7	1.51E-9	-4.65E-6	2.07E-4
ADP-f	MJ	1.13E+1	1.98E-1	4.90E-1	1.20E+1	7.45E-2	6.80E-1	4.52E-3	-5.36E+0	7.40E+0
WDP	m3 depriv.	5.82E-1	3.69E-4	1.43E-2	5.97E-1	2.29E-4	2.65E-2	3.12E-5	-2.57E-1	3.66E-1
PM	disease inc.	1.64E-8	6.49E-10	1.69E-9	1.87E-8	4.38E-10	3.12E-9	3.10E-11	-4.75E-9	1.75E-8
IR	kBq U-235 eq	2.46E-2	8.54E-4	1.15E-3	2.66E-2	3.26E-4	2.35E-3	2.09E-5	-8.57E-3	2.07E-2
ETP-fw	CTUe	8.66E+0	1.36E-1	1.34E+0	1.01E+1	6.05E-2	4.98E+0	5.48E-2	-2.52E+0	1.27E+1
HTP-c	CTUh	2.89E-10	8.01E-12	5.25E-11	3.50E-10	2.15E-12	7.89E-11	1.25E-13	-9.62E-11	3.35E-10
HTP-nc	CTUh	8.85E-9	1.24E-10	2.58E-9	1.16E-8	7.21E-11	1.81E-9	1.10E-11	-3.25E-9	1.02E-8
SQP	Pt	1.56E+0	6.27E-2	1.73E-1	1.80E+0	6.37E-2	4.25E-1	1.15E-2	-4.82E-1	1.82E+0
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	4.95E-1	1.71E-3	2.86E+0	3.36E+0	1.07E-3	4.79E-2	1.72E-4	-1.89E-1	3.22E+0
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	4.95E-1	1.71E-3	2.86E+0	3.36E+0	1.07E-3	4.79E-2	1.72E-4	-1.89E-1	3.22E+0
PENRE	MJ	1.21E+1	2.10E-1	5.20E-1	1.29E+1	7.91E-2	7.23E-1	4.79E-3	-5.79E+0	7.87E+0
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	1.21E+1	2.10E-1	5.20E-1	1.29E+1	7.91E-2	7.23E-1	4.79E-3	-5.79E+0	7.87E+0
PET	MJ	1.26E+1	2.12E-1	3.38E+0	1.62E+1	8.02E-2	7.71E-1	4.97E-3	-5.98E+0	1.11E+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	7.38E-3	1.34E-5	4.26E-4	7.82E-3	8.43E-6	8.05E-4	5.53E-6	-2.78E-3	5.85E-3

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	2.90E-5	2.63E-7	3.84E-6	3.31E-5	1.91E-7	1.15E-6	5.51E-9	-4.27E-6	3.01E-5
NHWD	kg	4.01E-2	3.43E-3	7.99E-4	4.43E-2	4.62E-3	2.71E-2	1.99E-2	-1.39E-2	8.21E-2
RWD	kg	2.48E-5	1.37E-6	1.02E-6	2.72E-5	5.07E-7	2.54E-6	2.94E-8	-7.75E-6	2.25E-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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