

Environmental Profile

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

Ecochain v3.5.71



Product: 3036795 - OsmaS PVCU 6 Boss Soil Manifold GY 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	1.96E+0	8.25E-2	2.37E-1	2.27E+0	2.57E-2	7.27E-1	8.05E-3	-1.09E+0	1.95E+0
GWP-f	kg CO2 eq	1.94E+0	8.25E-2	2.32E-1	2.25E+0	2.56E-2	7.28E-1	8.05E-3	-1.08E+0	1.93E+0
GWP-b	kg CO2 eq	1.59E-2	-1.73E-5	4.84E-3	2.07E-2	1.56E-5	-7.03E-4	1.01E-5	-7.51E-3	1.25E-2
GWP-luluc	kg CO2 eq	1.62E-3	5.42E-5	2.13E-4	1.89E-3	9.07E-6	3.15E-4	2.16E-7	-6.97E-4	1.51E-3
ODP	kg CFC11 eq	1.06E-6	1.68E-8	1.92E-8	1.09E-6	5.91E-9	8.59E-8	3.02E-10	-5.42E-7	6.41E-7
AP	mol H+ eq	9.05E-3	2.46E-3	1.29E-3	1.28E-2	1.46E-4	1.45E-3	7.35E-6	-4.08E-3	1.03E-2
EP-fw	kg P eq	8.79E-5	3.73E-7	3.28E-6	9.16E-5	2.11E-7	1.05E-5	9.69E-9	-3.97E-5	6.26E-5
EP-m	kg N eq	1.52E-3	6.09E-4	2.42E-4	2.37E-3	5.23E-5	3.51E-4	4.49E-6	-7.06E-4	2.07E-3
EP-T	mol N eq	1.66E-2	6.77E-3	2.66E-3	2.61E-2	5.76E-4	3.87E-3	2.93E-5	-7.50E-3	2.30E-2
POCP	kg NMVOC eq	5.64E-3	1.76E-3	1.11E-3	8.51E-3	1.65E-4	1.16E-3	1.01E-5	-2.61E-3	7.24E-3
ADP-mm	kg Sb eq	1.11E-3	7.68E-7	6.16E-6	1.12E-3	6.63E-7	5.72E-6	7.40E-9	-2.20E-5	1.10E-3
ADP-f	MJ	4.92E+1	1.08E+0	2.57E+0	5.29E+1	3.94E-1	3.97E+0	2.20E-2	-2.62E+1	3.10E+1
WDP	m3 depriv.	3.22E+0	1.78E-3	7.47E-2	3.30E+0	1.21E-3	1.58E-1	1.59E-4	-1.55E+0	1.91E+0
PM	disease inc.	5.91E-8	3.03E-9	8.94E-9	7.11E-8	2.31E-9	1.79E-8	1.52E-10	-2.58E-8	6.57E-8
IR	kBq U-235 eq	1.06E-1	4.62E-3	5.95E-3	1.17E-1	1.72E-3	1.39E-2	1.01E-4	-5.01E-2	8.23E-2
ETP-fw	CTUe	4.19E+1	7.14E-1	7.09E+0	4.97E+1	3.20E-1	3.08E+1	3.41E-1	-1.49E+1	6.62E+1
HTP-c	CTUh	1.50E-9	4.57E-11	2.78E-10	1.82E-9	1.14E-11	4.52E-10	6.17E-13	-5.69E-10	1.72E-9
HTP-nc	CTUh	4.79E-8	6.11E-10	1.33E-8	6.19E-8	3.81E-10	1.07E-8	6.57E-11	-1.97E-8	5.34E-8
SQP	Pt	6.42E+0	2.38E-1	9.15E-1	7.57E+0	3.37E-1	2.44E+0	5.63E-2	-2.77E+0	7.64E+0
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	2.42E+0	8.22E-3	1.52E+1	1.77E+1	5.65E-3	2.89E-1	8.08E-4	-1.13E+0	1.68E+1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	2.42E+0	8.22E-3	1.52E+1	1.77E+1	5.65E-3	2.89E-1	8.08E-4	-1.13E+0	1.68E+1
PENRE	MJ	5.28E+1	1.14E+0	2.73E+0	5.67E+1	4.18E-1	4.22E+0	2.34E-2	-2.83E+1	3.31E+1
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	5.28E+1	1.14E+0	2.73E+0	5.67E+1	4.18E-1	4.22E+0	2.34E-2	-2.83E+1	3.31E+1
PET	MJ	5.52E+1	1.15E+0	1.80E+1	7.43E+1	4.23E-1	4.51E+0	2.42E-2	-2.94E+1	4.99E+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	3.56E-2	6.38E-5	2.23E-3	3.79E-2	4.45E-5	4.32E-3	2.69E-5	-1.62E-2	2.61E-2

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	1.73E-4	1.19E-6	1.95E-5	1.93E-4	1.01E-6	6.41E-6	2.70E-8	-2.18E-5	1.79E-4
NHWD	kg	1.92E-1	1.02E-2	4.07E-3	2.06E-1	2.44E-2	1.45E-1	9.75E-2	-8.26E-2	3.90E-1
RWD	kg	9.21E-5	7.46E-6	5.16E-6	1.05E-4	2.68E-6	1.48E-5	1.43E-7	-4.41E-5	7.82E-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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