

Environmental Profile

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

Ecochain v3.5.71



Product: 3043048 - OsmaS PVCU Short Boss WT 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	6.30E-1	7.25E-3	4.64E-2	6.83E-1	7.56E-3	2.20E-1	3.43E-3	-2.99E-1	6.15E-1
GWP-f	kg CO2 eq	6.06E-1	7.24E-3	4.49E-2	6.58E-1	7.55E-3	2.20E-1	3.43E-3	-2.97E-1	5.92E-1
GWP-b	kg CO2 eq	2.21E-2	4.40E-6	1.47E-3	2.36E-2	4.59E-6	-3.04E-4	2.49E-6	-2.25E-3	2.10E-2
GWP-luluc	kg CO2 eq	2.00E-3	2.56E-6	3.31E-5	2.04E-3	2.67E-6	4.25E-5	1.39E-7	-2.08E-4	1.88E-3
ODP	kg CFC11 eq	4.79E-8	1.67E-9	4.55E-9	5.41E-8	1.74E-9	5.54E-9	9.40E-11	-1.60E-7	-9.85E-8
AP	mol H+ eq	6.30E-3	4.12E-5	2.31E-4	6.57E-3	4.30E-5	2.26E-4	2.59E-6	-1.20E-3	5.64E-3
EP-fw	kg P eq	6.77E-5	5.96E-8	6.07E-7	6.83E-5	6.22E-8	1.22E-6	5.24E-9	-1.19E-5	5.77E-5
EP-m	kg N eq	1.27E-3	1.48E-5	4.96E-5	1.33E-3	1.54E-5	6.47E-5	8.75E-7	-2.05E-4	1.21E-3
EP-T	mol N eq	1.58E-2	1.63E-4	5.30E-4	1.65E-2	1.70E-4	7.09E-4	9.65E-6	-2.18E-3	1.52E-2
POCP	kg NMVOC eq	3.60E-3	4.65E-5	2.50E-4	3.90E-3	4.85E-5	2.25E-4	3.52E-6	-7.59E-4	3.42E-3
ADP-mm	kg Sb eq	1.38E-2	1.87E-7	9.49E-7	1.38E-2	1.95E-7	9.26E-7	3.25E-9	-6.60E-6	1.38E-2
ADP-f	MJ	8.91E+0	1.11E-1	4.95E-1	9.52E+0	1.16E-1	7.42E-1	7.14E-3	-7.42E+0	2.96E+0
WDP	m3 depriv.	6.75E-1	3.41E-4	1.60E-2	6.91E-1	3.56E-4	1.36E-2	3.08E-4	-4.65E-1	2.40E-1
PM	disease inc.	2.80E-8	6.54E-10	1.54E-9	3.02E-8	6.82E-10	3.78E-9	4.94E-11	-7.68E-9	2.70E-8
IR	kBq U-235 eq	6.09E-2	4.86E-4	1.35E-3	6.28E-2	5.07E-4	2.23E-3	2.82E-5	-1.49E-2	5.06E-2
ETP-fw	CTUe	1.32E+2	9.02E-2	1.18E+0	1.33E+2	9.42E-2	8.34E-1	5.92E-3	-4.45E+0	1.30E+2
HTP-c	CTUh	3.13E-9	3.21E-12	4.62E-11	3.18E-9	3.35E-12	2.56E-10	3.77E-13	-1.69E-10	3.27E-9
HTP-nc	CTUh	9.26E-8	1.08E-10	3.09E-9	9.58E-8	1.12E-10	1.64E-9	5.06E-12	-5.89E-9	9.16E-8
SQP	Pt	5.08E+0	9.51E-2	1.57E-1	5.33E+0	9.92E-2	5.91E-1	1.70E-2	-8.19E-1	5.22E+0
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	1.28E+0	1.59E-3	2.29E+0	3.57E+0	1.66E-3	3.63E-2	1.24E-4	-3.37E-1	3.27E+0
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	1.28E+0	1.59E-3	2.29E+0	3.57E+0	1.66E-3	3.63E-2	1.24E-4	-3.37E-1	3.27E+0
PENRE	MJ	9.48E+0	1.18E-1	5.26E-1	1.01E+1	1.23E-1	7.91E-1	7.59E-3	-7.98E+0	3.06E+0
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	9.48E+0	1.18E-1	5.26E-1	1.01E+1	1.23E-1	7.91E-1	7.59E-3	-7.98E+0	3.06E+0
PET	MJ	1.08E+1	1.20E-1	2.82E+0	1.37E+1	1.25E-1	8.27E-1	7.72E-3	-8.32E+0	6.33E+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	1.99E-2	1.26E-5	4.50E-4	2.03E-2	1.31E-5	4.07E-4	7.50E-6	-4.84E-3	1.59E-2

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	1.76E-3	2.84E-7	5.68E-6	1.76E-3	2.97E-7	1.35E-6	1.10E-8	-6.00E-6	1.76E-3
NHWD	kg	1.14E-1	6.89E-3	1.14E-3	1.22E-1	7.19E-3	3.80E-2	2.88E-2	-2.47E-2	1.71E-1
RWD	kg	4.44E-5	7.56E-7	1.51E-6	4.67E-5	7.89E-7	2.83E-6	4.28E-8	-1.31E-5	3.73E-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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