

Environmental Profile

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

Ecochain v3.5.71



Product: 3043019 - OsmaS PVCU Clip Boss WT 110x32
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	3.60E-1	4.35E-3	2.00E-2	3.85E-1	4.09E-3	1.43E-1	1.91E-3	-1.69E-1	3.65E-1
GWP-f	kg CO2 eq	3.49E-1	4.35E-3	1.96E-2	3.73E-1	4.08E-3	1.43E-1	1.91E-3	-1.68E-1	3.54E-1
GWP-b	kg CO2 eq	1.05E-2	2.62E-6	3.99E-4	1.09E-2	2.48E-6	-1.57E-4	1.43E-6	-1.14E-3	9.65E-3
GWP-luluc	kg CO2 eq	1.03E-3	1.55E-6	1.81E-5	1.05E-3	1.45E-6	2.24E-5	7.31E-8	-1.07E-4	9.65E-4
ODP	kg CFC11 eq	3.13E-8	1.00E-9	1.61E-9	3.39E-8	9.41E-10	2.97E-9	5.21E-11	-8.19E-8	-4.40E-8
AP	mol H+ eq	3.45E-3	2.55E-5	1.09E-4	3.59E-3	2.33E-5	1.23E-4	1.42E-6	-6.38E-4	3.10E-3
EP-fw	kg P eq	3.51E-5	3.57E-8	2.77E-7	3.55E-5	3.36E-8	6.49E-7	2.79E-9	-6.09E-6	3.01E-5
EP-m	kg N eq	6.70E-4	9.03E-6	2.03E-5	7.00E-4	8.32E-6	3.56E-5	6.15E-7	-1.10E-4	6.34E-4
EP-T	mol N eq	8.30E-3	9.95E-5	2.24E-4	8.62E-3	9.17E-5	3.91E-4	5.33E-6	-1.17E-3	7.94E-3
POCP	kg NMVOC eq	1.99E-3	2.84E-5	9.35E-5	2.11E-3	2.62E-5	1.23E-4	1.94E-6	-4.13E-4	1.85E-3
ADP-mm	kg Sb eq	6.89E-3	1.12E-7	5.25E-7	6.89E-3	1.06E-7	4.90E-7	1.75E-9	-3.72E-6	6.88E-3
ADP-f	MJ	5.77E+0	6.67E-2	2.17E-1	6.06E+0	6.27E-2	3.94E-1	3.95E-3	-4.17E+0	2.35E+0
WDP	m3 depriv.	3.70E-1	2.04E-4	6.28E-3	3.77E-1	1.92E-4	7.49E-3	1.56E-4	-2.38E-1	1.46E-1
PM	disease inc.	1.67E-8	3.91E-10	7.58E-10	1.78E-8	3.69E-10	2.01E-9	2.73E-11	-4.11E-9	1.61E-8
IR	kBq U-235 eq	3.33E-2	2.91E-4	4.99E-4	3.41E-2	2.74E-4	1.18E-3	1.59E-5	-7.73E-3	2.78E-2
ETP-fw	CTUe	6.65E+1	5.41E-2	6.02E-1	6.71E+1	5.09E-2	4.82E-1	3.57E-3	-2.29E+0	6.54E+1
HTP-c	CTUh	1.59E-9	1.93E-12	2.36E-11	1.62E-9	1.81E-12	1.31E-10	1.98E-13	-8.73E-11	1.66E-9
HTP-nc	CTUh	4.67E-8	6.44E-11	1.12E-9	4.79E-8	6.07E-11	8.71E-10	2.81E-12	-3.01E-9	4.58E-8
SQP	Pt	2.74E+0	5.68E-2	7.76E-2	2.87E+0	5.36E-2	3.12E-1	9.47E-3	-4.27E-1	2.82E+0
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	6.83E-1	9.54E-4	1.30E+0	1.98E+0	8.99E-4	1.93E-2	7.81E-5	-1.74E-1	1.83E+0
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	6.83E-1	9.54E-4	1.30E+0	1.98E+0	8.99E-4	1.93E-2	7.81E-5	-1.74E-1	1.83E+0
PENRE	MJ	6.15E+0	7.08E-2	2.30E-1	6.45E+0	6.65E-2	4.19E-1	4.20E-3	-4.49E+0	2.45E+0
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	6.15E+0	7.08E-2	2.30E-1	6.45E+0	6.65E-2	4.19E-1	4.20E-3	-4.49E+0	2.45E+0
PET	MJ	6.83E+0	7.17E-2	1.53E+0	8.43E+0	6.74E-2	4.39E-1	4.28E-3	-4.66E+0	4.28E+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	1.07E-2	7.52E-6	1.88E-4	1.09E-2	7.09E-6	2.49E-4	4.22E-6	-2.51E-3	8.61E-3

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	8.75E-4	1.70E-7	1.61E-6	8.77E-4	1.60E-7	7.27E-7	5.94E-9	-3.30E-6	8.74E-4
NHWD	kg	6.34E-2	4.11E-3	3.37E-4	6.79E-2	3.88E-3	2.06E-2	1.60E-2	-1.27E-2	9.57E-2
RWD	kg	2.59E-5	4.53E-7	4.27E-7	2.67E-5	4.26E-7	1.50E-6	2.39E-8	-6.85E-6	2.18E-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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