

Environmental Profile

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

Ecochain v3.5.71



Product: 3043017 - OsmaS PVCU Clip Boss BK 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	3.35E-1	1.31E-2	1.91E-2	3.67E-1	4.17E-3	1.42E-1	1.41E-3	-1.83E-1	3.32E-1
GWP-f	kg CO2 eq	3.32E-1	1.31E-2	1.87E-2	3.64E-1	4.16E-3	1.42E-1	1.41E-3	-1.82E-1	3.30E-1
GWP-b	kg CO2 eq	1.89E-3	-2.10E-6	4.07E-4	2.29E-3	2.53E-6	-1.12E-4	1.70E-6	-1.14E-3	1.04E-3
GWP-luluc	kg CO2 eq	2.65E-4	8.36E-6	1.69E-5	2.90E-4	1.47E-6	4.83E-5	3.63E-8	-1.07E-4	2.33E-4
ODP	kg CFC11 eq	1.67E-7	2.69E-9	1.57E-9	1.71E-7	9.59E-10	1.30E-8	5.06E-11	-8.28E-8	1.02E-7
AP	mol H+ eq	1.56E-3	3.71E-4	1.03E-4	2.03E-3	2.37E-5	2.27E-4	1.23E-6	-6.47E-4	1.64E-3
EP-fw	kg P eq	1.42E-5	6.22E-8	2.63E-7	1.45E-5	3.43E-8	1.61E-6	1.63E-9	-6.08E-6	1.00E-5
EP-m	kg N eq	2.60E-4	9.25E-5	1.95E-5	3.72E-4	8.48E-6	5.58E-5	8.51E-7	-1.13E-4	3.24E-4
EP-T	mol N eq	2.84E-3	1.03E-3	2.14E-4	4.08E-3	9.35E-5	6.15E-4	4.91E-6	-1.21E-3	3.59E-3
POCP	kg NMVOC eq	1.02E-3	2.68E-4	9.08E-5	1.38E-3	2.67E-5	1.84E-4	1.70E-6	-4.25E-4	1.16E-3
ADP-mm	kg Sb eq	1.86E-4	1.35E-7	4.88E-7	1.87E-4	1.08E-7	8.84E-7	1.24E-9	-3.70E-6	1.84E-4
ADP-f	MJ	8.83E+0	1.73E-1	2.07E-1	9.21E+0	6.39E-2	6.17E-1	3.69E-3	-4.40E+0	5.50E+0
WDP	m3 depriv.	5.04E-1	3.03E-4	6.06E-3	5.11E-1	1.96E-4	2.43E-2	2.64E-5	-2.38E-1	2.97E-1
PM	disease inc.	1.17E-8	5.25E-10	7.13E-10	1.30E-8	3.76E-10	2.81E-9	2.54E-11	-4.14E-9	1.20E-8
IR	kBq U-235 eq	1.93E-2	7.44E-4	4.85E-4	2.06E-2	2.79E-4	2.15E-3	1.70E-5	-7.76E-3	1.53E-2
ETP-fw	CTUe	6.98E+0	1.17E-1	5.64E-1	7.66E+0	5.19E-2	4.65E+0	5.14E-2	-2.30E+0	1.01E+1
HTP-c	CTUh	2.38E-10	7.17E-12	2.21E-11	2.68E-10	1.85E-12	7.11E-11	1.03E-13	-8.78E-11	2.53E-10
HTP-nc	CTUh	7.56E-9	1.03E-10	1.09E-9	8.75E-9	6.18E-11	1.65E-9	1.01E-11	-3.01E-9	7.46E-9
SQP	Pt	1.13E+0	4.61E-2	7.30E-2	1.25E+0	5.47E-2	3.83E-1	9.43E-3	-4.32E-1	1.26E+0
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	3.98E-1	1.40E-3	1.20E+0	1.60E+0	9.17E-4	4.42E-2	1.37E-4	-1.74E-1	1.48E+0
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	3.98E-1	1.40E-3	1.20E+0	1.60E+0	9.17E-4	4.42E-2	1.37E-4	-1.74E-1	1.48E+0
PENRE	MJ	9.47E+0	1.83E-1	2.19E-1	9.87E+0	6.78E-2	6.57E-1	3.92E-3	-4.75E+0	5.85E+0
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	9.47E+0	1.83E-1	2.19E-1	9.87E+0	6.78E-2	6.57E-1	3.92E-3	-4.75E+0	5.85E+0
PET	MJ	9.87E+0	1.85E-1	1.42E+0	1.15E+1	6.87E-2	7.01E-1	4.06E-3	-4.92E+0	7.33E+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	5.84E-3	1.09E-5	1.80E-4	6.03E-3	7.23E-6	6.90E-4	4.51E-6	-2.52E-3	4.21E-3

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	2.75E-5	2.10E-7	1.63E-6	2.93E-5	1.63E-7	1.01E-6	4.51E-9	-3.56E-6	2.69E-5
NHWD	kg	3.05E-2	2.28E-3	3.39E-4	3.31E-2	3.96E-3	2.34E-2	1.63E-2	-1.27E-2	6.41E-2
RWD	kg	1.87E-5	1.20E-6	4.32E-7	2.03E-5	4.35E-7	2.31E-6	2.40E-8	-6.91E-6	1.62E-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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