

Environmental Profile

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

Ecochain v3.5.71



Product: 3043021 - OsmaS PVCU Clip Boss WT 110x40
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	2.25E-1	2.77E-3	2.33E-2	2.51E-1	2.43E-3	9.70E-2	1.16E-3	-1.05E-1	2.47E-1
GWP-f	kg CO2 eq	2.19E-1	2.77E-3	2.28E-2	2.44E-1	2.42E-3	9.70E-2	1.16E-3	-1.04E-1	2.41E-1
GWP-b	kg CO2 eq	5.65E-3	1.66E-6	4.51E-4	6.10E-3	1.47E-6	-9.07E-5	8.83E-7	-6.50E-4	5.37E-3
GWP-luluc	kg CO2 eq	5.91E-4	9.88E-7	2.13E-5	6.13E-4	8.58E-7	1.31E-5	4.26E-8	-6.13E-5	5.66E-4
ODP	kg CFC11 eq	2.09E-8	6.38E-10	1.85E-9	2.34E-8	5.59E-10	1.76E-9	3.15E-11	-4.69E-8	-2.12E-8
AP	mol H+ eq	2.09E-3	1.65E-5	1.28E-4	2.23E-3	1.38E-5	7.37E-5	8.53E-7	-3.74E-4	1.95E-3
EP-fw	kg P eq	2.04E-5	2.27E-8	3.24E-7	2.07E-5	2.00E-8	3.81E-7	1.64E-9	-3.49E-6	1.77E-5
EP-m	kg N eq	3.95E-4	5.82E-6	2.36E-5	4.24E-4	4.94E-6	2.15E-5	4.23E-7	-6.52E-5	3.86E-4
EP-T	mol N eq	4.87E-3	6.41E-5	2.61E-4	5.20E-3	5.45E-5	2.36E-4	3.21E-6	-6.96E-4	4.79E-3
POCP	kg NMVOC eq	1.21E-3	1.83E-5	1.08E-4	1.34E-3	1.56E-5	7.36E-5	1.17E-6	-2.47E-4	1.18E-3
ADP-mm	kg Sb eq	3.86E-3	7.12E-8	6.18E-7	3.86E-3	6.27E-8	2.88E-7	1.04E-9	-2.27E-6	3.86E-3
ADP-f	MJ	3.88E+0	4.25E-2	2.53E-1	4.18E+0	3.72E-2	2.31E-1	2.38E-3	-2.56E+0	1.89E+0
WDP	m3 depriv.	2.24E-1	1.30E-4	7.27E-3	2.31E-1	1.14E-4	4.51E-3	8.85E-5	-1.36E-1	9.95E-2
PM	disease inc.	1.07E-8	2.49E-10	8.88E-10	1.18E-8	2.19E-10	1.18E-9	1.65E-11	-2.42E-9	1.08E-8
IR	kBq U-235 eq	2.00E-2	1.86E-4	5.76E-4	2.08E-2	1.63E-4	6.93E-4	9.69E-6	-4.46E-3	1.72E-2
ETP-fw	CTUe	3.76E+1	3.44E-2	7.06E-1	3.84E+1	3.02E-2	3.00E-1	2.27E-3	-1.32E+0	3.74E+1
HTP-c	CTUh	9.08E-10	1.23E-12	2.77E-11	9.37E-10	1.08E-12	7.51E-11	1.16E-13	-5.02E-11	9.63E-10
HTP-nc	CTUh	2.64E-8	4.10E-11	1.29E-9	2.78E-8	3.60E-11	5.13E-10	1.70E-12	-1.72E-9	2.66E-8
SQP	Pt	1.65E+0	3.61E-2	9.09E-2	1.78E+0	3.18E-2	1.83E-1	5.74E-3	-2.48E-1	1.75E+0
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	4.06E-1	6.07E-4	1.53E+0	1.94E+0	5.34E-4	1.13E-2	5.09E-5	-9.98E-2	1.85E+0
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	4.06E-1	6.07E-4	1.53E+0	1.94E+0	5.34E-4	1.13E-2	5.09E-5	-9.98E-2	1.85E+0
PENRE	MJ	4.14E+0	4.51E-2	2.68E-1	4.45E+0	3.95E-2	2.46E-1	2.53E-3	-2.76E+0	1.98E+0
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	4.14E+0	4.51E-2	2.68E-1	4.45E+0	3.95E-2	2.46E-1	2.53E-3	-2.76E+0	1.98E+0
PET	MJ	4.54E+0	4.57E-2	1.80E+0	6.39E+0	4.01E-2	2.58E-1	2.58E-3	-2.86E+0	3.83E+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	6.36E-3	4.79E-6	2.18E-4	6.58E-3	4.21E-6	1.60E-4	2.57E-6	-1.45E-3	5.29E-3

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	4.90E-4	1.08E-7	1.82E-6	4.92E-4	9.52E-8	4.32E-7	3.53E-9	-2.01E-6	4.90E-4
NHWD	kg	3.93E-2	2.61E-3	3.83E-4	4.23E-2	2.31E-3	1.24E-2	9.72E-3	-7.28E-3	5.95E-2
RWD	kg	1.62E-5	2.89E-7	4.83E-7	1.70E-5	2.53E-7	8.79E-7	1.45E-8	-3.99E-6	1.41E-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



Ecochain Technologies BV
H.J.E. Wenckebachweg 123, 1096 AM Amsterdam, The Netherlands
<https://www.ecochain.com>
+31 20 3035 777