

Environmental Profile

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

Ecochain v3.5.71



Product: 3035589 - OsmaS PVCU Strap 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	2.17E-1	2.10E-3	1.95E-2	2.38E-1	2.00E-3	6.22E-2	9.08E-4	-8.96E-2	2.14E-1
GWP-f	kg CO2 eq	2.10E-1	2.10E-3	1.91E-2	2.31E-1	2.00E-3	6.23E-2	9.08E-4	-8.91E-2	2.07E-1
GWP-b	kg CO2 eq	6.14E-3	1.28E-6	4.06E-4	6.55E-3	1.21E-6	-9.15E-5	6.60E-7	-5.13E-4	5.95E-3
GWP-luluc	kg CO2 eq	5.70E-4	7.44E-7	1.74E-5	5.88E-4	7.08E-7	1.16E-5	3.67E-8	-4.93E-5	5.51E-4
ODP	kg CFC11 eq	1.57E-8	4.85E-10	1.59E-9	1.78E-8	4.61E-10	1.57E-9	2.49E-11	-4.28E-8	-2.29E-8
AP	mol H+ eq	1.96E-3	1.20E-5	1.06E-4	2.08E-3	1.14E-5	6.44E-5	6.87E-7	-3.52E-4	1.80E-3
EP-fw	kg P eq	2.00E-5	1.73E-8	2.69E-7	2.03E-5	1.65E-8	3.41E-7	1.39E-9	-3.44E-6	1.72E-5
EP-m	kg N eq	3.84E-4	4.29E-6	1.99E-5	4.08E-4	4.08E-6	1.84E-5	2.32E-7	-6.08E-5	3.70E-4
EP-T	mol N eq	4.74E-3	4.72E-5	2.19E-4	5.01E-3	4.49E-5	2.03E-4	2.56E-6	-6.52E-4	4.60E-3
POCP	kg NMVOC eq	1.14E-3	1.35E-5	9.22E-5	1.24E-3	1.28E-5	6.36E-5	9.31E-7	-2.49E-4	1.07E-3
ADP-mm	kg Sb eq	3.66E-3	5.44E-8	5.03E-7	3.66E-3	5.18E-8	2.64E-7	8.59E-10	-1.76E-6	3.65E-3
ADP-f	MJ	3.02E+0	3.23E-2	2.11E-1	3.26E+0	3.07E-2	2.04E-1	1.89E-3	-2.06E+0	1.44E+0
WDP	m3 depriv.	1.90E-1	9.91E-5	6.17E-3	1.96E-1	9.42E-5	3.66E-3	8.15E-5	-1.25E-1	7.53E-2
PM	disease inc.	1.10E-8	1.90E-10	7.32E-10	1.19E-8	1.81E-10	1.06E-9	1.31E-11	-2.51E-9	1.07E-8
IR	kBq U-235 eq	1.81E-2	1.41E-4	4.92E-4	1.87E-2	1.34E-4	6.23E-4	7.46E-6	-3.82E-3	1.57E-2
ETP-fw	CTUe	3.64E+1	2.62E-2	5.80E-1	3.70E+1	2.49E-2	2.37E-1	1.57E-3	-1.45E+0	3.58E+1
HTP-c	CTUh	1.44E-9	9.33E-13	2.28E-11	1.47E-9	8.87E-13	6.85E-11	9.97E-14	-4.60E-11	1.49E-9
HTP-nc	CTUh	2.64E-8	3.12E-11	1.10E-9	2.75E-8	2.97E-11	4.55E-10	1.34E-12	4.66E-12	2.80E-8
SQP	Pt	1.60E+0	2.76E-2	7.50E-2	1.70E+0	2.63E-2	1.66E-1	4.51E-3	-2.30E-1	1.66E+0
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	4.62E-1	4.63E-4	1.24E+0	1.71E+0	4.41E-4	1.01E-2	3.28E-5	-8.78E-2	1.63E+0
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	4.62E-1	4.63E-4	1.24E+0	1.71E+0	4.41E-4	1.01E-2	3.28E-5	-8.78E-2	1.63E+0
PENRE	MJ	3.21E+0	3.43E-2	2.24E-1	3.47E+0	3.26E-2	2.17E-1	2.01E-3	-2.22E+0	1.51E+0
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	3.21E+0	3.43E-2	2.24E-1	3.47E+0	3.26E-2	2.17E-1	2.01E-3	-2.22E+0	1.51E+0
PET	MJ	3.67E+0	3.47E-2	1.47E+0	5.18E+0	3.30E-2	2.27E-1	2.04E-3	-2.30E+0	3.13E+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	5.63E-3	3.65E-6	1.83E-4	5.82E-3	3.48E-6	1.10E-4	1.99E-6	-1.31E-3	4.62E-3

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	4.66E-4	8.25E-8	1.63E-6	4.68E-4	7.85E-8	3.77E-7	2.90E-9	-2.60E-6	4.65E-4
NHWD	kg	7.42E-2	2.00E-3	3.39E-4	7.66E-2	1.90E-3	1.07E-2	7.62E-3	-7.34E-3	8.94E-2
RWD	kg	1.36E-5	2.20E-7	4.32E-7	1.42E-5	2.09E-7	7.96E-7	1.13E-8	-3.43E-6	1.18E-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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