

Environmental Profile

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

Ecochain v3.5.71



Product: 3036536 - OsmaS PVCU Access Bend 90° WT 110 S/S
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	1.59E+0	2.03E-2	1.26E-1	1.74E+0	1.92E-2	5.51E-1	8.73E-3	-7.59E-1	1.56E+0
GWP-f	kg CO2 eq	1.54E+0	2.03E-2	1.22E-1	1.68E+0	1.92E-2	5.52E-1	8.73E-3	-7.53E-1	1.50E+0
GWP-b	kg CO2 eq	5.40E-2	1.23E-5	3.73E-3	5.77E-2	1.17E-5	-7.73E-4	6.42E-6	-5.67E-3	5.13E-2
GWP-luluc	kg CO2 eq	4.94E-3	7.21E-6	9.44E-5	5.04E-3	6.81E-6	1.08E-4	3.46E-7	-5.23E-4	4.63E-3
ODP	kg CFC11 eq	1.27E-7	4.68E-9	1.19E-8	1.44E-7	4.43E-9	1.41E-8	2.39E-10	-4.00E-7	-2.37E-7
AP	mol H+ eq	1.58E-2	1.17E-4	6.38E-4	1.65E-2	1.10E-4	5.75E-4	6.56E-6	-3.05E-3	1.42E-2
EP-fw	kg P eq	1.67E-4	1.67E-7	1.67E-6	1.69E-4	1.58E-7	3.11E-6	1.31E-8	-2.99E-5	1.43E-4
EP-m	kg N eq	3.14E-3	4.18E-5	1.33E-4	3.32E-3	3.92E-5	1.64E-4	2.41E-6	-5.20E-4	3.00E-3
EP-T	mol N eq	3.91E-2	4.61E-4	1.43E-3	4.10E-2	4.32E-4	1.80E-3	2.45E-5	-5.52E-3	3.78E-2
POCP	kg NMVOC eq	9.04E-3	1.32E-4	6.62E-4	9.83E-3	1.23E-4	5.71E-4	8.93E-6	-1.93E-3	8.60E-3
ADP-mm	kg Sb eq	3.38E-2	5.25E-7	2.71E-6	3.38E-2	4.97E-7	2.35E-6	8.16E-9	-1.66E-5	3.38E-2
ADP-f	MJ	2.35E+1	3.12E-1	1.35E+0	2.52E+1	2.95E-1	1.89E+0	1.81E-2	-1.90E+1	8.44E+0
WDP	m3 depriv.	1.69E+0	9.56E-4	4.28E-2	1.74E+0	9.06E-4	3.48E-2	7.58E-4	-1.17E+0	6.01E-1
PM	disease inc.	7.16E-8	1.83E-9	4.29E-9	7.77E-8	1.74E-9	9.60E-9	1.25E-10	-1.95E-8	6.97E-8
IR	kBq U-235 eq	1.53E-1	1.36E-3	3.57E-3	1.58E-1	1.29E-3	5.66E-3	7.20E-5	-3.75E-2	1.28E-1
ETP-fw	CTUe	3.24E+2	2.53E-1	3.30E+0	3.27E+2	2.40E-1	2.13E+0	1.54E-2	-1.12E+1	3.18E+2
HTP-c	CTUh	7.70E-9	9.02E-12	1.30E-10	7.84E-9	8.53E-12	6.34E-10	9.39E-13	-4.25E-10	8.06E-9
HTP-nc	CTUh	2.27E-7	3.02E-10	8.15E-9	2.36E-7	2.86E-10	4.12E-9	1.29E-11	-1.48E-8	2.25E-7
SQP	Pt	1.27E+1	2.66E-1	4.39E-1	1.34E+1	2.53E-1	1.50E+0	4.33E-2	-2.06E+0	1.31E+1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	3.18E+0	4.47E-3	6.59E+0	9.77E+0	4.23E-3	9.23E-2	3.31E-4	-8.48E-1	9.02E+0
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	3.18E+0	4.47E-3	6.59E+0	9.77E+0	4.23E-3	9.23E-2	3.31E-4	-8.48E-1	9.02E+0
PENRE	MJ	2.50E+1	3.31E-1	1.43E+0	2.68E+1	3.13E-1	2.01E+0	1.93E-2	-2.04E+1	8.76E+0
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	2.50E+1	3.31E-1	1.43E+0	2.68E+1	3.13E-1	2.01E+0	1.93E-2	-2.04E+1	8.76E+0
PET	MJ	2.82E+1	3.36E-1	8.02E+0	3.66E+1	3.18E-1	2.10E+0	1.96E-2	-2.12E+1	1.78E+1
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	4.95E-2	3.53E-5	1.21E-3	5.08E-2	3.34E-5	1.05E-3	1.92E-5	-1.22E-2	3.96E-2

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	4.30E-3	7.97E-7	1.44E-5	4.32E-3	7.55E-7	3.41E-6	2.76E-8	-1.50E-5	4.30E-3
NHWD	kg	2.85E-1	1.93E-2	2.92E-3	3.07E-1	1.83E-2	9.62E-2	7.33E-2	-6.19E-2	4.33E-1
RWD	kg	1.14E-4	2.12E-6	3.83E-6	1.20E-4	2.01E-6	7.18E-6	1.09E-7	-3.29E-5	9.64E-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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