

Environmental Profile

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

Ecochain v3.5.71



Product: 3035960 - OsmaS PVCU Access Saddle GY 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	6.09E-1	2.16E-2	6.29E-2	6.93E-1	6.57E-3	2.11E-1	2.07E-3	-3.15E-1	5.98E-1
GWP-f	kg CO2 eq	6.05E-1	2.16E-2	6.15E-2	6.88E-1	6.57E-3	2.11E-1	2.07E-3	-3.13E-1	5.94E-1
GWP-b	kg CO2 eq	3.87E-3	-3.77E-6	1.35E-3	5.21E-3	3.99E-6	-2.22E-4	2.57E-6	-1.67E-3	3.33E-3
GWP-luluc	kg CO2 eq	5.14E-4	1.39E-5	5.55E-5	5.83E-4	2.32E-6	8.10E-5	5.62E-8	-1.60E-4	5.06E-4
ODP	kg CFC11 eq	2.73E-7	4.43E-9	5.19E-9	2.83E-7	1.51E-9	2.20E-8	7.74E-11	-1.40E-7	1.67E-7
AP	mol H+ eq	2.86E-3	6.21E-4	3.40E-4	3.82E-3	3.74E-5	3.86E-4	1.89E-6	-1.14E-3	3.11E-3
EP-fw	kg P eq	2.83E-5	1.01E-7	8.65E-7	2.93E-5	5.40E-8	2.72E-6	2.51E-9	-1.10E-5	2.11E-5
EP-m	kg N eq	4.90E-4	1.55E-4	6.44E-5	7.09E-4	1.34E-5	9.45E-5	1.15E-6	-2.00E-4	6.17E-4
EP-T	mol N eq	5.39E-3	1.72E-3	7.06E-4	7.81E-3	1.48E-4	1.04E-3	7.51E-6	-2.15E-3	6.86E-3
POCP	kg NMVOC eq	1.89E-3	4.47E-4	3.00E-4	2.63E-3	4.22E-5	3.11E-4	2.59E-6	-8.13E-4	2.17E-3
ADP-mm	kg Sb eq	3.29E-4	2.17E-7	1.60E-6	3.31E-4	1.70E-7	1.52E-6	1.91E-9	-5.66E-6	3.27E-4
ADP-f	MJ	1.43E+1	2.84E-1	6.80E-1	1.53E+1	1.01E-1	1.04E+0	5.66E-3	-7.09E+0	9.34E+0
WDP	m3 depriv.	8.56E-1	4.90E-4	2.00E-2	8.77E-1	3.09E-4	4.01E-2	4.39E-5	-4.01E-1	5.17E-1
PM	disease inc.	2.20E-8	8.45E-10	2.34E-9	2.51E-8	5.93E-10	4.80E-9	3.89E-11	-7.99E-9	2.26E-8
IR	kBq U-235 eq	3.25E-2	1.22E-3	1.60E-3	3.53E-2	4.41E-4	3.66E-3	2.58E-5	-1.24E-2	2.70E-2
ETP-fw	CTUe	1.42E+1	1.91E-1	1.85E+0	1.62E+1	8.19E-2	7.80E+0	8.56E-2	-4.63E+0	1.96E+1
HTP-c	CTUh	8.87E-10	1.19E-11	7.27E-11	9.72E-10	2.91E-12	1.21E-10	1.60E-13	-1.49E-10	9.47E-10
HTP-nc	CTUh	1.85E-8	1.67E-10	3.60E-9	2.23E-8	9.76E-11	2.80E-9	1.65E-11	-3.92E-10	2.48E-8
SQP	Pt	2.07E+0	7.21E-2	2.40E-1	2.38E+0	8.63E-2	6.60E-1	1.44E-2	-7.48E-1	2.40E+0
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	7.63E-1	2.27E-3	3.96E+0	4.72E+0	1.45E-3	7.49E-2	2.05E-4	-2.83E-1	4.52E+0
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	7.63E-1	2.27E-3	3.96E+0	4.72E+0	1.45E-3	7.49E-2	2.05E-4	-2.83E-1	4.52E+0
PENRE	MJ	1.54E+1	3.01E-1	7.22E-1	1.64E+1	1.07E-1	1.10E+0	6.00E-3	-7.64E+0	9.96E+0
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	1.54E+1	3.01E-1	7.22E-1	1.64E+1	1.07E-1	1.10E+0	6.00E-3	-7.64E+0	9.96E+0
PET	MJ	1.61E+1	3.04E-1	4.68E+0	2.11E+1	1.08E-1	1.18E+0	6.21E-3	-7.92E+0	1.45E+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	1.04E-2	1.76E-5	5.92E-4	1.10E-2	1.14E-5	1.10E-3	6.89E-6	-4.23E-3	7.91E-3

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	5.32E-5	3.36E-7	5.39E-6	5.89E-5	2.58E-7	1.71E-6	6.95E-9	-8.70E-6	5.22E-5
NHWD	kg	7.53E-2	3.45E-3	1.12E-3	7.99E-2	6.25E-3	3.97E-2	2.50E-2	-2.35E-2	1.27E-1
RWD	kg	2.86E-5	1.97E-6	1.43E-6	3.20E-5	6.86E-7	3.95E-6	3.67E-8	-1.12E-5	2.55E-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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