

Environmental Profile

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

Ecochain v3.5.71



Product: 3039810 - OsmaS PVCU Boss Adaptor GY 50x32 SW/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	6.08E-2	2.54E-3	6.99E-3	7.03E-2	8.17E-4	2.24E-2	2.57E-4	-3.37E-2	6.00E-2
GWP-f	kg CO2 eq	6.02E-2	2.54E-3	6.84E-3	6.96E-2	8.16E-4	2.24E-2	2.57E-4	-3.35E-2	5.96E-2
GWP-b	kg CO2 eq	5.25E-4	-4.92E-7	1.40E-4	6.64E-4	4.96E-7	-2.27E-5	3.15E-7	-2.36E-4	4.07E-4
GWP-luluc	kg CO2 eq	5.18E-5	1.65E-6	6.34E-6	5.98E-5	2.89E-7	9.74E-6	7.12E-9	-2.19E-5	4.80E-5
ODP	kg CFC11 eq	3.21E-8	5.19E-10	5.61E-10	3.32E-8	1.88E-10	2.62E-9	9.59E-12	-1.70E-8	1.90E-8
AP	mol H+ eq	2.89E-4	7.45E-5	3.82E-5	4.01E-4	4.65E-6	4.50E-5	2.34E-7	-1.28E-4	3.24E-4
EP-fw	kg P eq	2.77E-6	1.17E-8	9.69E-8	2.88E-6	6.71E-9	3.24E-7	3.15E-10	-1.25E-6	1.96E-6
EP-m	kg N eq	4.83E-5	1.85E-5	7.11E-6	7.39E-5	1.66E-6	1.09E-5	1.40E-7	-2.20E-5	6.46E-5
EP-T	mol N eq	5.35E-4	2.06E-4	7.83E-5	8.19E-4	1.83E-5	1.20E-4	9.30E-7	-2.34E-4	7.24E-4
POCP	kg NMVOC eq	1.78E-4	5.35E-5	3.27E-5	2.64E-4	5.24E-6	3.61E-5	3.20E-7	-8.14E-5	2.24E-4
ADP-mm	kg Sb eq	4.98E-5	2.45E-8	1.83E-7	5.01E-5	2.11E-8	1.78E-7	2.38E-10	-6.91E-7	4.96E-5
ADP-f	MJ	1.51E+0	3.33E-2	7.58E-2	1.62E+0	1.25E-2	1.24E-1	7.01E-4	-8.16E-1	9.39E-1
WDP	m3 depriv.	9.89E-2	5.61E-5	2.19E-3	1.01E-1	3.84E-5	4.85E-3	6.06E-6	-4.87E-2	5.73E-2
PM	disease inc.	1.88E-9	9.63E-11	2.65E-10	2.25E-9	7.37E-11	5.62E-10	4.82E-12	-8.08E-10	2.08E-9
IR	kBq U-235 eq	3.30E-3	1.43E-4	1.74E-4	3.62E-3	5.47E-5	4.33E-4	3.19E-6	-1.57E-3	2.54E-3
ETP-fw	CTUe	1.45E+0	2.22E-2	2.10E-1	1.68E+0	1.02E-2	9.34E-1	1.03E-2	-4.69E-1	2.17E+0
HTP-c	CTUh	5.07E-11	1.40E-12	8.25E-12	6.04E-11	3.62E-13	1.47E-11	2.02E-14	-1.78E-11	5.76E-11
HTP-nc	CTUh	1.58E-9	1.92E-11	3.90E-10	1.99E-9	1.21E-11	3.31E-10	2.01E-12	-6.18E-10	1.72E-9
SQP	Pt	2.02E-1	7.87E-3	2.71E-2	2.37E-1	1.07E-2	7.70E-2	1.78E-3	-8.67E-2	2.40E-1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	7.51E-2	2.60E-4	4.54E-1	5.29E-1	1.80E-4	8.91E-3	2.50E-5	-3.54E-2	5.03E-1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	7.51E-2	2.60E-4	4.54E-1	5.29E-1	1.80E-4	8.91E-3	2.50E-5	-3.54E-2	5.03E-1
PENRE	MJ	1.62E+0	3.53E-2	8.04E-2	1.73E+0	1.33E-2	1.32E-1	7.44E-4	-8.78E-1	1.00E+0
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	1.62E+0	3.53E-2	8.04E-2	1.73E+0	1.33E-2	1.32E-1	7.44E-4	-8.78E-1	1.00E+0
PET	MJ	1.69E+0	3.56E-2	5.34E-1	2.26E+0	1.35E-2	1.41E-1	7.69E-4	-9.14E-1	1.50E+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	1.12E-3	2.02E-6	6.56E-5	1.19E-3	1.42E-6	1.33E-4	8.50E-7	-5.08E-4	8.14E-4

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	7.29E-6	3.81E-8	5.62E-7	7.89E-6	3.20E-8	2.00E-7	8.65E-10	-6.76E-7	7.45E-6
NHWD	kg	6.07E-3	3.56E-4	1.18E-4	6.55E-3	7.76E-4	4.56E-3	3.10E-3	-2.59E-3	1.24E-2
RWD	kg	2.86E-6	2.31E-7	1.49E-7	3.24E-6	8.52E-8	4.63E-7	4.54E-9	-1.38E-6	2.41E-6
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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