

Environmental Profile

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

Ecochain v3.5.71



Product: 3035406 - OsmaS PVCU Boss Adaptor WT 50 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	1.41E-1	1.73E-3	1.60E-2	1.58E-1	1.48E-3	5.91E-2	6.93E-4	-6.59E-2	1.54E-1
GWP-f	kg CO2 eq	1.37E-1	1.73E-3	1.56E-2	1.54E-1	1.48E-3	5.92E-2	6.93E-4	-6.54E-2	1.50E-1
GWP-b	kg CO2 eq	3.44E-3	1.03E-6	3.39E-4	3.78E-3	8.96E-7	-5.65E-5	5.24E-7	-4.07E-4	3.32E-3
GWP-luluc	kg CO2 eq	3.63E-4	6.17E-7	1.41E-5	3.78E-4	5.22E-7	8.13E-6	2.59E-8	-3.79E-5	3.49E-4
ODP	kg CFC11 eq	1.18E-8	3.98E-10	1.31E-9	1.35E-8	3.40E-10	1.09E-9	1.89E-11	-2.90E-8	-1.40E-8
AP	mol H+ eq	1.32E-3	1.03E-5	8.64E-5	1.41E-3	8.40E-6	4.56E-5	5.12E-7	-2.32E-4	1.24E-3
EP-fw	kg P eq	1.26E-5	1.41E-8	2.20E-7	1.28E-5	1.21E-8	2.36E-7	9.93E-10	-2.15E-6	1.09E-5
EP-m	kg N eq	2.44E-4	3.63E-6	1.63E-5	2.64E-4	3.01E-6	1.33E-5	2.30E-7	-4.05E-5	2.40E-4
EP-T	mol N eq	3.01E-3	4.01E-5	1.79E-4	3.23E-3	3.31E-5	1.46E-4	1.93E-6	-4.33E-4	2.98E-3
POCP	kg NMVOC eq	7.50E-4	1.14E-5	7.59E-5	8.38E-4	9.47E-6	4.57E-5	7.02E-7	-1.54E-4	7.39E-4
ADP-mm	kg Sb eq	2.36E-3	4.44E-8	4.09E-7	2.36E-3	3.82E-8	1.78E-7	6.25E-10	-1.33E-6	2.36E-3
ADP-f	MJ	2.42E+0	2.65E-2	1.73E-1	2.62E+0	2.26E-2	1.43E-1	1.43E-3	-1.60E+0	1.19E+0
WDP	m3 depriv.	1.41E-1	8.09E-5	5.06E-3	1.46E-1	6.95E-5	2.74E-3	5.45E-5	-8.45E-2	6.44E-2
PM	disease inc.	6.55E-9	1.55E-10	5.97E-10	7.30E-9	1.33E-10	7.35E-10	9.86E-12	-1.50E-9	6.68E-9
IR	kBq U-235 eq	1.20E-2	1.16E-4	4.05E-4	1.25E-2	9.90E-5	4.30E-4	5.77E-6	-2.75E-3	1.03E-2
ETP-fw	CTUe	2.31E+1	2.15E-2	4.72E-1	2.35E+1	1.84E-2	1.78E-1	1.30E-3	-8.12E-1	2.29E+1
HTP-c	CTUh	5.62E-10	7.68E-13	1.85E-11	5.81E-10	6.54E-13	4.70E-11	7.02E-14	-3.11E-11	5.98E-10
HTP-nc	CTUh	1.62E-8	2.55E-11	9.10E-10	1.72E-8	2.19E-11	3.19E-10	1.01E-12	-1.06E-9	1.65E-8
SQP	Pt	1.02E+0	2.25E-2	6.11E-2	1.11E+0	1.94E-2	1.14E-1	3.43E-3	-1.53E-1	1.09E+0
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	2.52E-1	3.78E-4	1.01E+0	1.26E+0	3.25E-4	6.99E-3	2.94E-5	-6.16E-2	1.21E+0
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	2.52E-1	3.78E-4	1.01E+0	1.26E+0	3.25E-4	6.99E-3	2.94E-5	-6.16E-2	1.21E+0
PENRE	MJ	2.58E+0	2.81E-2	1.83E-1	2.79E+0	2.40E-2	1.53E-1	1.52E-3	-1.73E+0	1.24E+0
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	2.58E+0	2.81E-2	1.83E-1	2.79E+0	2.40E-2	1.53E-1	1.52E-3	-1.73E+0	1.24E+0
PET	MJ	2.83E+0	2.85E-2	1.19E+0	4.05E+0	2.44E-2	1.60E-1	1.55E-3	-1.79E+0	2.45E+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	3.97E-3	2.98E-6	1.50E-4	4.12E-3	2.56E-6	9.26E-5	1.53E-6	-9.00E-4	3.32E-3

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	3.00E-4	6.74E-8	1.36E-6	3.01E-4	5.79E-8	2.65E-7	2.13E-9	-1.25E-6	3.01E-4
NHWD	kg	2.58E-2	1.63E-3	2.82E-4	2.77E-2	1.40E-3	7.78E-3	5.81E-3	-4.50E-3	3.82E-2
RWD	kg	9.47E-6	1.80E-7	3.60E-7	1.00E-5	1.54E-7	5.46E-7	8.66E-9	-2.45E-6	8.27E-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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