

Environmental Profile

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

Ecochain v3.5.71



Product: 3035179 - OsmaS PVCU Boss Adaptor BK 50x40 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	6.46E-2	2.72E-3	1.06E-2	7.79E-2	8.69E-4	2.38E-2	2.74E-4	-3.60E-2	6.69E-2
GWP-f	kg CO2 eq	6.40E-2	2.72E-3	1.04E-2	7.72E-2	8.69E-4	2.38E-2	2.74E-4	-3.57E-2	6.64E-2
GWP-b	kg CO2 eq	5.51E-4	-5.36E-7	1.35E-4	6.86E-4	5.27E-7	-2.41E-5	3.36E-7	-2.52E-4	4.11E-4
GWP-luluc	kg CO2 eq	5.33E-5	1.77E-6	1.09E-5	6.60E-5	3.07E-7	1.04E-5	7.53E-9	-2.33E-5	5.34E-5
ODP	kg CFC11 eq	3.54E-8	5.55E-10	7.36E-10	3.67E-8	2.00E-10	2.81E-9	1.02E-11	-1.81E-8	2.16E-8
AP	mol H+ eq	3.02E-4	8.00E-5	6.12E-5	4.44E-4	4.95E-6	4.81E-5	2.49E-7	-1.36E-4	3.61E-4
EP-fw	kg P eq	2.88E-6	1.24E-8	1.52E-7	3.05E-6	7.15E-9	3.47E-7	3.34E-10	-1.33E-6	2.07E-6
EP-m	kg N eq	5.08E-5	1.98E-5	1.04E-5	8.11E-5	1.77E-6	1.16E-5	1.49E-7	-2.35E-5	7.11E-5
EP-T	mol N eq	5.55E-4	2.21E-4	1.17E-4	8.93E-4	1.95E-5	1.28E-4	9.91E-7	-2.50E-4	7.92E-4
POCP	kg NMVOC eq	1.88E-4	5.73E-5	4.49E-5	2.91E-4	5.58E-6	3.85E-5	3.41E-7	-8.68E-5	2.48E-4
ADP-mm	kg Sb eq	4.97E-5	2.61E-8	3.15E-7	5.00E-5	2.25E-8	1.90E-7	2.53E-10	-7.37E-7	4.95E-5
ADP-f	MJ	1.67E+0	3.56E-2	1.16E-1	1.82E+0	1.33E-2	1.32E-1	7.46E-4	-8.70E-1	1.09E+0
WDP	m3 depriv.	1.04E-1	5.97E-5	3.12E-3	1.07E-1	4.09E-5	5.19E-3	6.26E-6	-5.20E-2	6.06E-2
PM	disease inc.	2.16E-9	1.02E-10	4.32E-10	2.69E-9	7.84E-11	6.00E-10	5.13E-12	-8.62E-10	2.51E-9
IR	kBq U-235 eq	3.78E-3	1.53E-4	2.37E-4	4.17E-3	5.83E-5	4.62E-4	3.40E-6	-1.67E-3	3.02E-3
ETP-fw	CTUe	1.50E+0	2.37E-2	3.49E-1	1.87E+0	1.08E-2	1.00E+0	1.11E-2	-5.00E-1	2.39E+0
HTP-c	CTUh	5.18E-11	1.50E-12	1.37E-11	6.70E-11	3.85E-13	1.56E-11	2.14E-14	-1.90E-11	6.39E-11
HTP-nc	CTUh	1.63E-9	2.05E-11	5.22E-10	2.18E-9	1.29E-11	3.54E-10	2.15E-12	-6.59E-10	1.89E-9
SQP	Pt	2.15E-1	8.31E-3	4.43E-2	2.68E-1	1.14E-2	8.21E-2	1.90E-3	-9.25E-2	2.70E-1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	7.88E-2	2.77E-4	7.88E-1	8.67E-1	1.91E-4	9.53E-3	2.67E-5	-3.77E-2	8.39E-1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	7.88E-2	2.77E-4	7.88E-1	8.67E-1	1.91E-4	9.53E-3	2.67E-5	-3.77E-2	8.39E-1
PENRE	MJ	1.79E+0	3.78E-2	1.23E-1	1.95E+0	1.42E-2	1.41E-1	7.92E-4	-9.37E-1	1.17E+0
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	1.79E+0	3.78E-2	1.23E-1	1.95E+0	1.42E-2	1.41E-1	7.92E-4	-9.37E-1	1.17E+0
PET	MJ	1.86E+0	3.80E-2	9.11E-1	2.81E+0	1.43E-2	1.50E-1	8.18E-4	-9.74E-1	2.00E+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	1.15E-3	2.15E-6	9.74E-5	1.25E-3	1.51E-6	1.42E-4	9.06E-7	-5.42E-4	8.53E-4

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	7.35E-6	4.05E-8	5.82E-7	7.97E-6	3.41E-8	2.14E-7	9.20E-10	-7.21E-7	7.50E-6
NHWD	kg	6.15E-3	3.72E-4	1.28E-4	6.65E-3	8.26E-4	4.85E-3	3.30E-3	-2.77E-3	1.29E-2
RWD	kg	3.53E-6	2.47E-7	1.54E-7	3.93E-6	9.07E-8	4.95E-7	4.84E-9	-1.48E-6	3.05E-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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