

Environmental Profile

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

Ecochain v3.5.71



Product: 3035120 - OsmaS PVCU Boss Adaptor WT 50x32 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	1.09E-1	1.39E-3	1.20E-2	1.23E-1	1.13E-3	4.69E-2	5.37E-4	-5.09E-2	1.21E-1
GWP-f	kg CO2 eq	1.07E-1	1.38E-3	1.18E-2	1.20E-1	1.13E-3	4.70E-2	5.38E-4	-5.05E-2	1.18E-1
GWP-b	kg CO2 eq	2.51E-3	8.25E-7	2.19E-4	2.72E-3	6.88E-7	-4.28E-5	4.11E-7	-3.04E-4	2.38E-3
GWP-luluc	kg CO2 eq	2.70E-4	4.95E-7	1.13E-5	2.82E-4	4.01E-7	6.19E-6	1.96E-8	-2.84E-5	2.60E-4
ODP	kg CFC11 eq	9.56E-9	3.18E-10	9.35E-10	1.08E-8	2.61E-10	8.32E-10	1.46E-11	-2.16E-8	-9.70E-9
AP	mol H+ eq	1.02E-3	8.37E-6	6.68E-5	1.09E-3	6.46E-6	3.50E-5	3.95E-7	-1.76E-4	9.59E-4
EP-fw	kg P eq	9.45E-6	1.13E-8	1.68E-7	9.63E-6	9.32E-9	1.80E-7	7.55E-10	-1.61E-6	8.20E-6
EP-m	kg N eq	1.85E-4	2.93E-6	1.22E-5	2.00E-4	2.31E-6	1.03E-5	1.91E-7	-3.09E-5	1.82E-4
EP-T	mol N eq	2.27E-3	3.23E-5	1.35E-4	2.43E-3	2.55E-5	1.13E-4	1.49E-6	-3.30E-4	2.24E-3
POCP	kg NMVOC eq	5.76E-4	9.19E-6	5.50E-5	6.40E-4	7.28E-6	3.51E-5	5.43E-7	-1.18E-4	5.65E-4
ADP-mm	kg Sb eq	1.74E-3	3.55E-8	3.27E-7	1.74E-3	2.93E-8	1.36E-7	4.78E-10	-1.03E-6	1.73E-3
ADP-f	MJ	1.95E+0	2.12E-2	1.31E-1	2.10E+0	1.74E-2	1.09E-1	1.10E-3	-1.24E+0	9.84E-1
WDP	m3 depriv.	1.08E-1	6.47E-5	3.72E-3	1.12E-1	5.34E-5	2.11E-3	4.05E-5	-6.33E-2	5.10E-2
PM	disease inc.	5.17E-9	1.24E-10	4.65E-10	5.76E-9	1.02E-10	5.60E-10	7.62E-12	-1.15E-9	5.28E-9
IR	kBq U-235 eq	9.17E-3	9.26E-5	2.93E-4	9.56E-3	7.60E-5	3.28E-4	4.49E-6	-2.07E-3	7.90E-3
ETP-fw	CTUe	1.70E+1	1.72E-2	3.71E-1	1.74E+1	1.41E-2	1.39E-1	1.03E-3	-6.09E-1	1.70E+1
HTP-c	CTUh	4.19E-10	6.15E-13	1.45E-11	4.34E-10	5.03E-13	3.51E-11	5.32E-14	-2.33E-11	4.46E-10
HTP-nc	CTUh	1.20E-8	2.04E-11	6.53E-10	1.27E-8	1.68E-11	2.42E-10	7.80E-13	-7.94E-10	1.22E-8
SQP	Pt	7.78E-1	1.80E-2	4.76E-2	8.43E-1	1.49E-2	8.64E-2	2.66E-3	-1.15E-1	8.32E-1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	1.91E-1	3.02E-4	8.10E-1	1.00E+0	2.50E-4	5.33E-3	2.38E-5	-4.62E-2	9.61E-1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	1.91E-1	3.02E-4	8.10E-1	1.00E+0	2.50E-4	5.33E-3	2.38E-5	-4.62E-2	9.61E-1
PENRE	MJ	2.07E+0	2.25E-2	1.39E-1	2.23E+0	1.85E-2	1.16E-1	1.17E-3	-1.34E+0	1.03E+0
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	2.07E+0	2.25E-2	1.39E-1	2.23E+0	1.85E-2	1.16E-1	1.17E-3	-1.34E+0	1.03E+0
PET	MJ	2.26E+0	2.28E-2	9.49E-1	3.24E+0	1.87E-2	1.22E-1	1.20E-3	-1.38E+0	1.99E+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	3.03E-3	2.38E-6	1.12E-4	3.14E-3	1.97E-6	7.37E-5	1.19E-6	-6.78E-4	2.54E-3

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	2.20E-4	5.38E-8	8.92E-7	2.21E-4	4.45E-8	2.03E-7	1.63E-9	-9.55E-7	2.21E-4
NHWD	kg	2.03E-2	1.30E-3	1.89E-4	2.18E-2	1.08E-3	5.94E-3	4.51E-3	-3.37E-3	3.00E-2
RWD	kg	7.39E-6	1.44E-7	2.36E-7	7.77E-6	1.18E-7	4.16E-7	6.72E-9	-1.85E-6	6.47E-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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