

Environmental Profile

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

Ecochain v3.5.71



Product: 3035190 - OsmaS PVCU Boss Adaptor WT 50x40 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

This document and supporting material contain confidential and proprietary business information of Wavin - UK - Chippenham - Verified. These materials may be printed or (photo) copied or otherwise used only with the written consent of Wavin - UK - Chippenham - Verified.

Results

Environmental impact	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
GWP-total	kg CO2 eq	1.32E-1	1.78E-3	1.28E-2	1.47E-1	1.44E-3	5.50E-2	6.81E-4	-6.18E-2	1.42E-1
GWP-f	kg CO2 eq	1.29E-1	1.78E-3	1.25E-2	1.43E-1	1.44E-3	5.50E-2	6.81E-4	-6.14E-2	1.39E-1
GWP-b	kg CO2 eq	3.26E-3	1.06E-6	2.33E-4	3.49E-3	8.72E-7	-5.43E-5	5.22E-7	-3.81E-4	3.06E-3
GWP-luluc	kg CO2 eq	3.33E-4	6.36E-7	1.19E-5	3.46E-4	5.08E-7	7.82E-6	2.46E-8	-3.54E-5	3.19E-4
ODP	kg CFC11 eq	1.17E-8	4.09E-10	9.93E-10	1.31E-8	3.31E-10	1.04E-9	1.85E-11	-2.67E-8	-1.22E-8
AP	mol H+ eq	1.23E-3	1.09E-5	7.07E-5	1.31E-3	8.18E-6	4.36E-5	4.99E-7	-2.20E-4	1.14E-3
EP-fw	kg P eq	1.16E-5	1.45E-8	1.78E-7	1.18E-5	1.18E-8	2.27E-7	9.49E-10	-2.01E-6	1.00E-5
EP-m	kg N eq	2.26E-4	3.79E-6	1.29E-5	2.43E-4	2.93E-6	1.27E-5	2.43E-7	-3.83E-5	2.20E-4
EP-T	mol N eq	2.78E-3	4.18E-5	1.43E-4	2.96E-3	3.23E-5	1.39E-4	1.88E-6	-4.10E-4	2.73E-3
POCP	kg NMVOC eq	6.99E-4	1.19E-5	5.84E-5	7.69E-4	9.22E-6	4.35E-5	6.87E-7	-1.47E-4	6.75E-4
ADP-mm	kg Sb eq	2.17E-3	4.55E-8	3.45E-7	2.17E-3	3.72E-8	1.71E-7	6.03E-10	-1.28E-6	2.17E-3
ADP-f	MJ	2.35E+0	2.72E-2	1.39E-1	2.51E+0	2.20E-2	1.37E-1	1.40E-3	-1.54E+0	1.14E+0
WDP	m3 depriv.	1.31E-1	8.29E-5	3.95E-3	1.35E-1	6.77E-5	2.67E-3	5.05E-5	-7.91E-2	5.89E-2
PM	disease inc.	6.22E-9	1.59E-10	4.92E-10	6.87E-9	1.30E-10	7.02E-10	9.64E-12	-1.45E-9	6.27E-9
IR	kBq U-235 eq	1.13E-2	1.19E-4	3.11E-4	1.17E-2	9.64E-5	4.12E-4	5.70E-6	-2.57E-3	9.67E-3
ETP-fw	CTUe	2.12E+1	2.20E-2	3.93E-1	2.16E+1	1.79E-2	1.75E-1	1.31E-3	-7.58E-1	2.11E+1
HTP-c	CTUh	5.18E-10	7.91E-13	1.54E-11	5.34E-10	6.37E-13	4.35E-11	6.67E-14	-2.90E-11	5.49E-10
HTP-nc	CTUh	1.50E-8	2.62E-11	6.93E-10	1.57E-8	2.13E-11	3.01E-10	9.82E-13	-9.90E-10	1.50E-8
SQP	Pt	9.40E-1	2.30E-2	5.04E-2	1.01E+0	1.89E-2	1.09E-1	3.37E-3	-1.43E-1	1.00E+0
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	2.32E-1	3.88E-4	8.57E-1	1.09E+0	3.16E-4	6.73E-3	3.05E-5	-5.78E-2	1.04E+0
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	2.32E-1	3.88E-4	8.57E-1	1.09E+0	3.16E-4	6.73E-3	3.05E-5	-5.78E-2	1.04E+0
PENRE	MJ	2.50E+0	2.89E-2	1.47E-1	2.68E+0	2.34E-2	1.46E-1	1.48E-3	-1.66E+0	1.19E+0
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	2.50E+0	2.89E-2	1.47E-1	2.68E+0	2.34E-2	1.46E-1	1.48E-3	-1.66E+0	1.19E+0
PET	MJ	2.73E+0	2.93E-2	1.00E+0	3.77E+0	2.37E-2	1.53E-1	1.51E-3	-1.71E+0	2.23E+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	3.67E-3	3.06E-6	1.19E-4	3.79E-3	2.49E-6	9.22E-5	1.51E-6	-8.50E-4	3.04E-3

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	2.76E-4	6.90E-8	9.50E-7	2.77E-4	5.64E-8	2.54E-7	2.06E-9	-1.14E-6	2.76E-4
NHWD	kg	2.39E-2	1.67E-3	2.01E-4	2.58E-2	1.37E-3	7.29E-3	5.71E-3	-4.20E-3	3.60E-2
RWD	kg	9.09E-6	1.85E-7	2.52E-7	9.53E-6	1.50E-7	5.23E-7	8.51E-9	-2.29E-6	7.92E-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



Ecochain Technologies BV
H.J.E. Wenckebachweg 123, 1096 AM Amsterdam, The Netherlands
<https://www.ecochain.com>
+31 20 3035 777