

Environmental Profile

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

Ecochain v3.5.71



Product: 3039825 - OsmaS PVCU Boss Access Pipe GY 110 D/SW
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	1.29E+0	5.48E-2	1.35E-1	1.48E+0	1.71E-2	4.76E-1	5.39E-3	-7.19E-1	1.26E+0
GWP-f	kg CO2 eq	1.28E+0	5.48E-2	1.33E-1	1.47E+0	1.71E-2	4.76E-1	5.39E-3	-7.14E-1	1.25E+0
GWP-b	kg CO2 eq	1.09E-2	-1.15E-5	2.56E-3	1.35E-2	1.04E-5	-4.70E-4	6.73E-6	-5.01E-3	8.02E-3
GWP-luluc	kg CO2 eq	1.07E-3	3.60E-5	1.25E-4	1.23E-3	6.06E-6	2.09E-4	1.45E-7	-4.64E-4	9.85E-4
ODP	kg CFC11 eq	7.02E-7	1.12E-8	1.07E-8	7.24E-7	3.95E-9	5.71E-8	2.02E-10	-3.61E-7	4.24E-7
AP	mol H+ eq	6.00E-3	1.63E-3	7.46E-4	8.38E-3	9.75E-5	9.65E-4	4.92E-6	-2.71E-3	6.73E-3
EP-fw	kg P eq	5.83E-5	2.48E-7	1.89E-6	6.05E-5	1.41E-7	6.99E-6	6.50E-9	-2.65E-5	4.11E-5
EP-m	kg N eq	1.01E-3	4.05E-4	1.37E-4	1.55E-3	3.49E-5	2.33E-4	3.01E-6	-4.69E-4	1.35E-3
EP-T	mol N eq	1.10E-2	4.50E-3	1.51E-3	1.70E-2	3.85E-4	2.57E-3	1.96E-5	-4.98E-3	1.50E-2
POCP	kg NMVOC eq	3.72E-3	1.17E-3	6.24E-4	5.51E-3	1.10E-4	7.69E-4	6.73E-6	-1.73E-3	4.67E-3
ADP-mm	kg Sb eq	7.82E-4	5.11E-7	3.62E-6	7.86E-4	4.43E-7	3.81E-6	4.96E-9	-1.47E-5	7.75E-4
ADP-f	MJ	3.25E+1	7.15E-1	1.47E+0	3.47E+1	2.63E-1	2.64E+0	1.47E-2	-1.74E+1	2.02E+1
WDP	m3 depriv.	2.14E+0	1.18E-3	4.21E-2	2.18E+0	8.07E-4	1.05E-1	1.08E-4	-1.03E+0	1.25E+0
PM	disease inc.	3.91E-8	2.02E-9	5.19E-9	4.63E-8	1.55E-9	1.19E-8	1.01E-10	-1.72E-8	4.27E-8
IR	kBq U-235 eq	7.05E-2	3.07E-3	3.33E-3	7.69E-2	1.15E-3	9.27E-3	6.75E-5	-3.34E-2	5.40E-2
ETP-fw	CTUe	2.81E+1	4.75E-1	4.13E+0	3.27E+1	2.13E-1	2.05E+1	2.27E-1	-9.96E+0	4.37E+1
HTP-c	CTUh	1.00E-9	3.04E-11	1.62E-10	1.19E-9	7.60E-12	3.01E-10	4.14E-13	-3.79E-10	1.12E-9
HTP-nc	CTUh	3.21E-8	4.07E-10	7.43E-9	3.99E-8	2.54E-10	7.13E-9	4.37E-11	-1.31E-8	3.42E-8
SQP	Pt	4.21E+0	1.59E-1	5.31E-1	4.90E+0	2.25E-1	1.63E+0	3.76E-2	-1.84E+0	4.95E+0
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	1.60E+0	5.47E-3	8.97E+0	1.06E+1	3.77E-3	1.92E-1	5.39E-4	-7.51E-1	1.00E+1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	1.60E+0	5.47E-3	8.97E+0	1.06E+1	3.77E-3	1.92E-1	5.39E-4	-7.51E-1	1.00E+1
PENRE	MJ	3.48E+1	7.59E-1	1.56E+0	3.71E+1	2.79E-1	2.81E+0	1.56E-2	-1.87E+1	2.15E+1
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	3.48E+1	7.59E-1	1.56E+0	3.71E+1	2.79E-1	2.81E+0	1.56E-2	-1.87E+1	2.15E+1
PET	MJ	3.64E+1	7.65E-1	1.05E+1	4.77E+1	2.83E-1	3.00E+0	1.62E-2	-1.95E+1	3.16E+1
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	2.36E-2	4.25E-5	1.27E-3	2.49E-2	2.97E-5	2.87E-3	1.80E-5	-1.08E-2	1.70E-2

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	1.20E-4	7.94E-7	1.04E-5	1.31E-4	6.72E-7	4.27E-6	1.80E-8	-1.44E-5	1.22E-4
NHWD	kg	1.26E-1	6.79E-3	2.19E-3	1.35E-1	1.63E-2	9.62E-2	6.52E-2	-5.51E-2	2.58E-1
RWD	kg	6.14E-5	4.96E-6	2.75E-6	6.91E-5	1.79E-6	9.88E-6	9.57E-8	-2.94E-5	5.15E-5
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