

Environmental Profile

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

Ecochain v3.5.80



Product: 3025905 - Gutter Coupler Sand 80
Unit: 1 Piece
Manufacturer: Wavin - FR - Varennes

The Wavin range of PVC pipes and fittings to be glued covers all the usual diameters and allows you to create networks that are 100% compatible, homogeneous and meet the requirements of the French market.

LCA standard: EN15804+A2 (2019)
Standard database: Worldwide - Ecoinvent v 3.6 Cut-Off
Externally verified: Yes
Issue date: 24-11-2022
End of validity: 24-11-2027
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 - FR - Varennes (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]

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Results

Environmental impact	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
GWP-total	kg CO2 eq	1.78E-1	6.53E-3	7.69E-3	1.92E-1	2.27E-3	1.29E-1	7.15E-4	-8.31E-2	2.41E-1
GWP-f	kg CO2 eq	2.21E-1	6.52E-3	5.99E-3	2.33E-1	2.26E-3	6.68E-2	7.14E-4	-1.20E-1	1.83E-1
GWP-b	kg CO2 eq	-4.35E-2	3.96E-6	1.69E-3	-4.18E-2	1.37E-6	6.21E-2	8.71E-7	3.70E-2	5.73E-2
GWP-luluc	kg CO2 eq	3.99E-4	2.31E-6	6.53E-6	4.08E-4	8.01E-7	2.80E-5	1.99E-8	-3.44E-4	9.28E-5
ODP	kg CFC11 eq	9.45E-8	1.50E-9	7.89E-10	9.68E-8	5.22E-10	7.78E-9	2.66E-11	-5.05E-8	5.46E-8
AP	mol H+ eq	1.36E-3	3.72E-5	3.73E-5	1.44E-3	1.29E-5	1.44E-4	6.50E-7	-5.71E-4	1.03E-3
EP-fw	kg P eq	1.14E-5	5.37E-8	1.44E-7	1.16E-5	1.86E-8	9.36E-7	8.79E-10	-6.99E-6	5.58E-6
EP-m	kg N eq	2.33E-4	1.33E-5	1.07E-5	2.57E-4	4.61E-6	3.77E-5	3.86E-7	-1.13E-4	1.87E-4
EP-T	mol N eq	2.46E-3	1.47E-4	1.33E-4	2.73E-3	5.08E-5	4.14E-4	2.58E-6	-1.25E-3	1.95E-3
POCP	kg NMVOC eq	7.47E-4	4.19E-5	3.16E-5	8.21E-4	1.45E-5	1.24E-4	8.89E-7	-3.89E-4	5.72E-4
ADP-mm	kg Sb eq	2.46E-4	1.69E-7	1.37E-7	2.46E-4	5.86E-8	5.74E-7	6.63E-10	-2.27E-6	2.45E-4
ADP-f	MJ	4.89E+0	1.00E-1	8.30E-2	5.08E+0	3.47E-2	3.80E-1	1.94E-3	-2.72E+0	2.77E+0
WDP	m3 depriv.	3.06E-1	3.07E-4	1.62E-1	4.68E-1	1.07E-4	1.36E-2	1.74E-5	-1.90E-1	2.91E-1
PM	disease inc.	1.01E-8	5.89E-10	5.32E-10	1.12E-8	2.04E-10	1.85E-9	1.34E-11	-6.60E-9	6.71E-9
IR	kBq U-235 eq	1.21E-2	4.38E-4	2.32E-4	1.28E-2	1.52E-4	1.36E-3	8.83E-6	-6.96E-3	7.34E-3
ETP-fw	CTUe	1.02E+1	8.13E-2	8.79E-2	1.04E+1	2.82E-2	2.63E+0	2.83E-2	-4.32E+0	8.73E+0
HTP-c	CTUh	2.42E-10	2.89E-12	6.38E-12	2.52E-10	1.00E-12	4.72E-11	5.64E-14	-8.76E-11	2.12E-10
HTP-nc	CTUh	6.16E-9	9.69E-11	1.71E-10	6.42E-9	3.36E-11	9.79E-10	5.51E-12	-2.59E-9	4.85E-9
SQP	Pt	6.05E+0	8.57E-2	5.09E-1	6.64E+0	2.97E-2	2.35E-1	4.94E-3	-1.02E+1	-3.28E+0
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	1.10E+0	1.44E-3	1.29E-1	1.24E+0	4.99E-4	2.57E-2	6.89E-5	-1.80E+0	-5.40E-1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	1.10E+0	1.44E-3	1.29E-1	1.24E+0	4.99E-4	2.57E-2	6.89E-5	-1.80E+0	-5.40E-1
PENRE	MJ	5.25E+0	1.06E-1	8.97E-2	5.44E+0	3.69E-2	4.04E-1	2.06E-3	-2.92E+0	2.97E+0
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	5.25E+0	1.06E-1	8.97E-2	5.44E+0	3.69E-2	4.04E-1	2.06E-3	-2.92E+0	2.97E+0
PET	MJ	6.35E+0	1.08E-1	2.19E-1	6.68E+0	3.74E-2	4.30E-1	2.13E-3	-4.72E+0	2.43E+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	4.13E-3	1.13E-5	3.79E-3	7.93E-3	3.93E-6	3.80E-4	2.36E-6	-2.87E-3	5.45E-3

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	3.50E-5	2.56E-7	1.18E-7	3.53E-5	8.89E-8	6.56E-7	2.41E-9	-2.61E-6	3.35E-5
NHWD	kg	3.85E-2	6.21E-3	8.67E-4	4.56E-2	2.15E-3	1.44E-2	8.61E-3	-1.19E-2	5.88E-2
RWD	kg	1.09E-5	6.81E-7	2.39E-7	1.19E-5	2.36E-7	1.52E-6	1.26E-8	-6.39E-6	7.24E-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