

Environmental Profile

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

Ecochain v3.5.80



Product: 3024005 - KANION PVC Angle int. 130x90 Graphite
Unit: 1 piece
Manufacturer: Wavin - PL -Buk - Extra products

Kanion gutters mean original design, elegance and aesthetics. They are designed to drain 100% of rainwater. It is safe to say that they are intended for the most demanding users.

LCA standard: EN15804+A2 (2019)
Standard database: Worldwide - Ecoinvent v 3.6 Cut-Off
Externally verified: Yes
Issue date: 08-06-2023
End of validity: 08-06-2028
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 - PL -Buk - Extra products (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 - PL -Buk - Extra products. These materials may be printed or (photo) copied or otherwise used only with the written consent of Wavin - PL -Buk - Extra products.

Results

Environmental impact	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
GWP-total	kg CO2 eq	9.81E-1	1.83E-2	1.45E-4	1.00E+0	1.17E-2	8.93E-1	3.82E-3	-5.68E-1	1.34E+0
GWP-f	kg CO2 eq	1.34E+0	1.82E-2	1.46E-4	1.35E+0	1.17E-2	4.62E-1	3.82E-3	-7.10E-1	1.12E+0
GWP-b	kg CO2 eq	-3.56E-1	1.11E-5	-1.54E-6	-3.56E-1	7.12E-6	4.30E-1	4.73E-6	1.44E-1	2.18E-1
GWP-luluc	kg CO2 eq	1.96E-3	6.45E-6	1.49E-7	1.97E-3	4.15E-6	1.50E-4	1.02E-7	-1.51E-3	6.14E-4
ODP	kg CFC11 eq	5.22E-7	4.20E-9	8.26E-12	5.26E-7	2.70E-9	4.23E-8	1.40E-10	-2.74E-7	2.97E-7
AP	mol H+ eq	6.60E-3	1.04E-4	1.47E-6	6.70E-3	6.68E-5	7.76E-4	3.43E-6	-3.02E-3	4.53E-3
EP-fw	kg P eq	6.21E-5	1.50E-7	8.24E-9	6.23E-5	9.65E-8	5.05E-6	4.57E-9	-3.41E-5	3.33E-5
EP-m	kg N eq	1.29E-3	3.72E-5	1.55E-7	1.32E-3	2.39E-5	2.02E-4	2.17E-6	-6.02E-4	9.50E-4
EP-T	mol N eq	1.37E-2	4.10E-4	1.85E-6	1.42E-2	2.64E-4	2.23E-3	1.36E-5	-6.67E-3	9.99E-3
POCP	kg NMVOC eq	4.51E-3	1.17E-4	6.28E-7	4.62E-3	7.53E-5	6.63E-4	4.71E-6	-2.19E-3	3.18E-3
ADP-mm	kg Sb eq	9.55E-4	4.72E-7	1.97E-8	9.56E-4	3.04E-7	3.03E-6	3.46E-9	-1.23E-5	9.47E-4
ADP-f	MJ	3.03E+1	2.80E-1	1.36E-3	3.05E+1	1.80E-1	2.01E+0	1.03E-2	-1.56E+1	1.72E+1
WDP	m3 depriv.	1.66E+0	8.59E-4	5.22E-5	1.66E+0	5.53E-4	7.42E-2	7.75E-5	-9.50E-1	7.85E-1
PM	disease inc.	5.82E-8	1.65E-9	9.08E-12	5.99E-8	1.06E-9	9.74E-9	7.07E-11	-3.35E-8	3.73E-8
IR	kBq U-235 eq	6.60E-2	1.22E-3	1.02E-6	6.72E-2	7.87E-4	7.24E-3	4.70E-5	-3.47E-2	4.06E-2
ETP-fw	CTUe	4.80E+1	2.27E-1	1.21E-2	4.83E+1	1.46E-1	1.45E+1	1.57E-1	-2.01E+1	4.30E+1
HTP-c	CTUh	1.42E-9	8.09E-12	6.17E-13	1.43E-9	5.20E-12	2.47E-10	2.91E-13	-4.87E-10	1.20E-9
HTP-nc	CTUh	3.50E-8	2.71E-10	1.57E-11	3.53E-8	1.74E-10	5.34E-9	3.03E-11	-1.00E-8	3.08E-8
SQP	Pt	4.07E+1	2.39E-1	2.24E-3	4.09E+1	1.54E-1	1.25E+0	2.62E-2	-5.34E+1	-1.10E+1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	9.85E+0	4.02E-3	2.40E-2	9.87E+0	2.58E-3	1.39E-1	3.79E-4	-9.15E+0	8.64E-1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	9.85E+0	4.02E-3	2.40E-2	9.87E+0	2.58E-3	1.39E-1	3.79E-4	-9.15E+0	8.64E-1
PENRE	MJ	3.25E+1	2.97E-1	1.44E-3	3.28E+1	1.91E-1	2.14E+0	1.09E-2	-1.68E+1	1.83E+1
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	3.25E+1	2.97E-1	1.44E-3	3.28E+1	1.91E-1	2.14E+0	1.09E-2	-1.68E+1	1.83E+1
PET	MJ	4.23E+1	3.01E-1	2.55E-2	4.26E+1	1.94E-1	2.28E+0	1.13E-2	-2.59E+1	1.92E+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	2.18E-2	3.17E-5	1.46E-6	2.18E-2	2.04E-5	2.09E-3	1.25E-5	-1.36E-2	1.04E-2

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	1.43E-4	7.16E-7	2.73E-13	1.43E-4	4.61E-7	3.47E-6	1.26E-8	-1.72E-5	1.30E-4
NHWD	kg	1.62E-1	1.73E-2	1.05E-6	1.80E-1	1.12E-2	7.97E-2	4.50E-2	-6.62E-2	2.49E-1
RWD	kg	6.05E-5	1.90E-6	1.10E-13	6.24E-5	1.22E-6	8.02E-6	6.66E-8	-3.23E-5	3.94E-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