

Environmental Profile

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

Ecochain v3.5.80



Product: 3023989 - KANION PVC Angle ext. 100x135 BK
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	1.51E+0	1.41E-2	3.22E-4	1.53E+0	7.24E-3	1.15E+0	2.37E-3	-6.55E-2	2.62E+0
GWP-f	kg CO2 eq	1.75E+0	1.41E-2	3.25E-4	1.77E+0	7.24E-3	4.81E-1	2.37E-3	-9.69E-1	1.29E+0
GWP-b	kg CO2 eq	-2.48E-1	8.54E-6	-3.43E-6	-2.48E-1	4.39E-6	6.65E-1	2.93E-6	9.10E-1	1.33E+0
GWP-luluc	kg CO2 eq	5.92E-3	4.97E-6	3.32E-7	5.93E-3	2.56E-6	1.15E-4	6.30E-8	-6.68E-3	-6.31E-4
ODP	kg CFC11 eq	4.36E-7	3.24E-9	1.84E-11	4.39E-7	1.67E-9	3.76E-8	8.67E-11	-2.38E-7	2.41E-7
AP	mol H+ eq	8.79E-3	8.01E-5	3.28E-6	8.87E-3	4.12E-5	8.92E-4	2.12E-6	-5.81E-3	4.00E-3
EP-fw	kg P eq	9.35E-5	1.16E-7	1.83E-8	9.37E-5	5.95E-8	4.00E-6	2.83E-9	-9.24E-5	5.31E-6
EP-m	kg N eq	2.33E-3	2.87E-5	3.45E-7	2.35E-3	1.47E-5	2.81E-4	1.35E-6	-1.29E-3	1.36E-3
EP-T	mol N eq	2.31E-2	3.16E-4	4.12E-6	2.35E-2	1.63E-4	3.07E-3	8.43E-6	-1.48E-2	1.20E-2
POCP	kg NMVOC eq	6.30E-3	9.03E-5	1.40E-6	6.39E-3	4.65E-5	9.17E-4	2.91E-6	-4.00E-3	3.37E-3
ADP-mm	kg Sb eq	6.60E-4	3.64E-7	4.38E-8	6.60E-4	1.87E-7	3.59E-6	2.14E-9	-1.32E-5	6.51E-4
ADP-f	MJ	3.46E+1	2.16E-1	3.02E-3	3.48E+1	1.11E-1	2.01E+0	6.35E-3	-1.86E+1	1.83E+1
WDP	m3 depriv.	1.40E+0	6.62E-4	1.16E-4	1.40E+0	3.41E-4	5.21E-2	4.80E-5	-1.77E+0	-3.18E-1
PM	disease inc.	1.06E-7	1.27E-9	2.02E-11	1.07E-7	6.53E-10	1.22E-8	4.37E-11	-9.89E-8	2.10E-8
IR	kBq U-235 eq	8.33E-2	9.43E-4	2.26E-6	8.43E-2	4.86E-4	7.84E-3	2.91E-5	-7.28E-2	1.99E-2
ETP-fw	CTUe	1.33E+2	1.75E-1	2.69E-2	1.34E+2	9.02E-2	1.04E+1	9.64E-2	-7.47E+1	6.95E+1
HTP-c	CTUh	1.29E-9	6.24E-12	1.37E-12	1.30E-9	3.21E-12	2.82E-10	1.80E-13	-7.97E-10	7.84E-10
HTP-nc	CTUh	3.32E-8	2.09E-10	3.48E-11	3.35E-8	1.08E-10	4.72E-9	1.87E-11	-2.29E-8	1.54E-8
SQP	Pt	6.19E+1	1.85E-1	4.98E-3	6.21E+1	9.50E-2	1.21E+0	1.62E-2	-1.83E+2	-1.20E+2
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	1.18E+1	3.10E-3	5.35E-2	1.19E+1	1.59E-3	1.09E-1	2.34E-4	-3.28E+1	-2.08E+1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	1.18E+1	3.10E-3	5.35E-2	1.19E+1	1.59E-3	1.09E-1	2.34E-4	-3.28E+1	-2.08E+1
PENRE	MJ	3.72E+1	2.29E-1	3.21E-3	3.74E+1	1.18E-1	2.13E+0	6.73E-3	-1.99E+1	1.97E+1
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	3.72E+1	2.29E-1	3.21E-3	3.74E+1	1.18E-1	2.13E+0	6.73E-3	-1.99E+1	1.97E+1
PET	MJ	4.90E+1	2.32E-1	5.67E-2	4.93E+1	1.20E-1	2.24E+0	6.97E-3	-5.27E+1	-1.07E+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	2.60E-2	2.44E-5	3.25E-6	2.60E-2	1.26E-5	1.62E-3	7.74E-6	-3.93E-2	-1.16E-2

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	1.13E-4	5.52E-7	6.08E-13	1.13E-4	2.84E-7	4.23E-6	7.79E-9	-2.25E-5	9.52E-5
NHWD	kg	2.53E-1	1.34E-2	2.35E-6	2.66E-1	6.89E-3	8.74E-2	2.78E-2	-1.07E-1	2.81E-1
RWD	kg	8.29E-5	1.47E-6	2.44E-13	8.44E-5	7.55E-7	9.84E-6	4.12E-8	-6.90E-5	2.60E-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