

Environmental Profile

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

Ecochain v3.5.80



Product: 3043747 - Accesse Pipe KANION PVC 110 BK
 Unit: 1 piece
 Manufacturer: Wavin - PL -Buk - Extra products

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



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.

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

A1 Raw material supply A2 Transport A3 Manufacturing

Construction process stage

A4 Transport gate to site
 A5 Assembly / Construction installation process

Use stage

B1 Use B2 Maintenance B3 Repair B4 Replacement B5 Refurbishment
 B6 Operational energy use B7 Operational water use

End-of-Life stage

C1 De-construction demolition C2 Transport C3 Waste processing
 C4 Disposal

Benefits and loads beyond the system boundaries

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

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Results

Environmental impact	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
GWP-total	kg CO2 eq	1.70E+0	2.67E-2	1.45E-4	1.73E+0	1.84E-2	1.22E+0	5.95E-3	-9.44E-1	2.04E+0
GWP-f	kg CO2 eq	2.06E+0	2.67E-2	1.46E-4	2.08E+0	1.84E-2	7.94E-1	5.95E-3	-1.08E+0	1.82E+0
GWP-b	kg CO2 eq	-3.54E-1	1.62E-5	-1.54E-6	-3.54E-1	1.12E-5	4.30E-1	7.40E-6	1.42E-1	2.17E-1
GWP-luluc	kg CO2 eq	2.53E-3	9.44E-6	1.49E-7	2.54E-3	6.50E-6	2.34E-4	1.58E-7	-1.70E-3	1.08E-3
ODP	kg CFC11 eq	8.24E-7	6.15E-9	8.26E-12	8.30E-7	4.23E-9	6.53E-8	2.19E-10	-4.26E-7	4.74E-7
AP	mol H+ eq	9.92E-3	1.52E-4	1.47E-6	1.01E-2	1.05E-4	1.18E-3	5.35E-6	-4.16E-3	7.20E-3
EP-fw	kg P eq	9.13E-5	2.19E-7	8.24E-9	9.15E-5	1.51E-7	7.84E-6	7.10E-9	-4.47E-5	5.48E-5
EP-m	kg N eq	1.86E-3	5.44E-5	1.55E-7	1.91E-3	3.74E-5	3.03E-4	3.37E-6	-8.10E-4	1.45E-3
EP-T	mol N eq	1.99E-2	5.99E-4	1.85E-6	2.05E-2	4.12E-4	3.34E-3	2.13E-5	-8.89E-3	1.54E-2
POCP	kg NMVOC eq	6.79E-3	1.71E-4	6.28E-7	6.96E-3	1.18E-4	9.94E-4	7.35E-6	-2.97E-3	5.11E-3
ADP-mm	kg Sb eq	1.40E-3	6.90E-7	1.97E-8	1.40E-3	4.75E-7	4.56E-6	5.40E-9	-1.82E-5	1.39E-3
ADP-f	MJ	4.90E+1	4.09E-1	1.36E-3	4.94E+1	2.82E-1	3.07E+0	1.60E-2	-2.40E+1	2.88E+1
WDP	m3 depriv.	2.61E+0	1.26E-3	5.22E-5	2.61E+0	8.65E-4	1.16E-1	1.17E-4	-1.36E+0	1.36E+0
PM	disease inc.	8.42E-8	2.41E-9	9.08E-12	8.67E-8	1.66E-9	1.46E-8	1.10E-10	-4.06E-8	6.25E-8
IR	kBq U-235 eq	1.04E-1	1.79E-3	1.02E-6	1.06E-1	1.23E-3	1.10E-2	7.35E-5	-4.84E-2	6.97E-2
ETP-fw	CTUe	6.33E+1	3.32E-1	1.21E-2	6.36E+1	2.29E-1	2.27E+1	2.47E-1	-2.41E+1	6.26E+1
HTP-c	CTUh	1.91E-9	1.18E-11	6.17E-13	1.92E-9	8.15E-12	3.81E-10	4.52E-13	-6.43E-10	1.67E-9
HTP-nc	CTUh	5.06E-8	3.96E-10	1.57E-11	5.10E-8	2.73E-10	8.30E-9	4.77E-11	-1.53E-8	4.43E-8
SQP	Pt	4.33E+1	3.50E-1	2.24E-3	4.37E+1	2.41E-1	1.90E+0	4.10E-2	-5.42E+1	-8.33E+0
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	1.23E+1	5.87E-3	2.40E-2	1.23E+1	4.04E-3	2.15E-1	5.93E-4	-9.45E+0	3.05E+0
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	1.23E+1	5.87E-3	2.40E-2	1.23E+1	4.04E-3	2.15E-1	5.93E-4	-9.45E+0	3.05E+0
PENRE	MJ	5.26E+1	4.35E-1	1.44E-3	5.30E+1	2.99E-1	3.27E+0	1.70E-2	-2.59E+1	3.07E+1
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	5.26E+1	4.35E-1	1.44E-3	5.30E+1	2.99E-1	3.27E+0	1.70E-2	-2.59E+1	3.07E+1
PET	MJ	6.48E+1	4.41E-1	2.55E-2	6.53E+1	3.03E-1	3.48E+0	1.76E-2	-3.54E+1	3.37E+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	3.36E-2	4.63E-5	1.46E-6	3.37E-2	3.19E-5	3.27E-3	1.96E-5	-1.80E-2	1.90E-2

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	2.08E-4	1.05E-6	2.73E-13	2.10E-4	7.21E-7	5.22E-6	1.96E-8	-2.47E-5	1.91E-4
NHWD	kg	2.23E-1	2.54E-2	1.05E-6	2.48E-1	1.75E-2	1.24E-1	7.03E-2	-8.85E-2	3.72E-1
RWD	kg	9.76E-5	2.78E-6	1.10E-13	1.00E-4	1.92E-6	1.20E-5	1.04E-7	-4.46E-5	6.99E-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



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