

Environmental Profile

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

Ecochain v3.5.80



Product: 3021688 - KANION PVC Rainwater Adaptor 90/110 BN
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

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Results

Environmental impact	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
GWP-total	kg CO2 eq	3.61E-1	5.93E-3	1.45E-4	3.67E-1	4.18E-3	2.36E-1	1.35E-3	-1.98E-1	4.10E-1
GWP-f	kg CO2 eq	4.24E-1	5.93E-3	1.46E-4	4.30E-1	4.18E-3	1.54E-1	1.35E-3	-2.32E-1	3.58E-1
GWP-b	kg CO2 eq	-6.35E-2	3.60E-6	-1.54E-6	-6.35E-2	2.54E-6	8.17E-2	1.67E-6	3.34E-2	5.16E-2
GWP-luluc	kg CO2 eq	5.27E-4	2.10E-6	1.49E-7	5.29E-4	1.48E-6	5.29E-5	3.64E-8	-3.87E-4	1.97E-4
ODP	kg CFC11 eq	1.82E-7	1.37E-9	8.26E-12	1.83E-7	9.64E-10	1.47E-8	4.96E-11	-9.59E-8	1.03E-7
AP	mol H+ eq	2.01E-3	3.38E-5	1.47E-6	2.05E-3	2.38E-5	2.64E-4	1.21E-6	-9.32E-4	1.40E-3
EP-fw	kg P eq	1.88E-5	4.88E-8	8.24E-9	1.89E-5	3.44E-8	1.77E-6	1.63E-9	-1.02E-5	1.05E-5
EP-m	kg N eq	3.75E-4	1.21E-5	1.55E-7	3.87E-4	8.52E-6	6.73E-5	7.37E-7	-1.79E-4	2.85E-4
EP-T	mol N eq	4.03E-3	1.33E-4	1.85E-6	4.17E-3	9.39E-5	7.42E-4	4.82E-6	-1.96E-3	3.05E-3
POCP	kg NMVOC eq	1.35E-3	3.81E-5	6.28E-7	1.38E-3	2.68E-5	2.21E-4	1.66E-6	-6.52E-4	9.82E-4
ADP-mm	kg Sb eq	1.08E-4	1.53E-7	1.97E-8	1.08E-4	1.08E-7	1.03E-6	1.23E-9	-4.06E-6	1.05E-4
ADP-f	MJ	1.01E+1	9.10E-2	1.36E-3	1.02E+1	6.42E-2	6.95E-1	3.63E-3	-5.21E+0	5.75E+0
WDP	m3 depriv.	5.71E-1	2.79E-4	5.22E-5	5.72E-1	1.97E-4	2.62E-2	2.89E-5	-3.12E-1	2.86E-1
PM	disease inc.	1.66E-8	5.35E-10	9.08E-12	1.72E-8	3.77E-10	3.30E-9	2.50E-11	-9.04E-9	1.18E-8
IR	kBq U-235 eq	2.07E-2	3.98E-4	1.02E-6	2.11E-2	2.81E-4	2.48E-3	1.66E-5	-1.09E-2	1.29E-2
ETP-fw	CTUe	1.22E+1	7.39E-2	1.21E-2	1.23E+1	5.21E-2	5.11E+0	5.57E-2	-5.53E+0	1.20E+1
HTP-c	CTUh	3.89E-10	2.63E-12	6.17E-13	3.93E-10	1.85E-12	8.54E-11	1.04E-13	-1.41E-10	3.39E-10
HTP-nc	CTUh	1.00E-8	8.81E-11	1.57E-11	1.01E-8	6.21E-11	1.86E-9	1.08E-11	-3.38E-9	8.68E-9
SQP	Pt	8.30E+0	7.78E-2	2.24E-3	8.38E+0	5.49E-2	4.31E-1	9.27E-3	-1.14E+1	-2.49E+0
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	2.44E+0	1.31E-3	2.40E-2	2.46E+0	9.21E-4	4.87E-2	1.33E-4	-2.01E+0	4.96E-1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	2.44E+0	1.31E-3	2.40E-2	2.46E+0	9.21E-4	4.87E-2	1.33E-4	-2.01E+0	4.96E-1
PENRE	MJ	1.08E+1	9.66E-2	1.44E-3	1.09E+1	6.81E-2	7.39E-1	3.85E-3	-5.61E+0	6.14E+0
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	1.08E+1	9.66E-2	1.44E-3	1.09E+1	6.81E-2	7.39E-1	3.85E-3	-5.61E+0	6.14E+0
PET	MJ	1.33E+1	9.79E-2	2.55E-2	1.34E+1	6.91E-2	7.88E-1	3.98E-3	-7.63E+0	6.63E+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	7.06E-3	1.03E-5	1.46E-6	7.07E-3	7.26E-6	7.28E-4	4.42E-6	-4.11E-3	3.70E-3

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	2.06E-5	2.33E-7	2.73E-13	2.09E-5	1.64E-7	1.17E-6	4.47E-9	-5.32E-6	1.69E-5
NHWD	kg	4.80E-2	5.64E-3	1.05E-6	5.36E-2	3.98E-3	2.72E-2	1.59E-2	-1.96E-2	8.11E-2
RWD	kg	1.86E-5	6.19E-7	1.10E-13	1.92E-5	4.36E-7	2.72E-6	2.35E-8	-1.00E-5	1.24E-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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