

Environmental Profile

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

Ecochain v3.5.80



Product: 3021587 - KANION PVC Running Outlet 160/110 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	1.32E+0	2.28E-2	1.45E-4	1.34E+0	1.66E-2	1.31E+0	5.40E-3	-8.07E-1	1.86E+0
GWP-f	kg CO2 eq	1.84E+0	2.28E-2	1.46E-4	1.86E+0	1.66E-2	6.82E-1	5.40E-3	-1.01E+0	1.55E+0
GWP-b	kg CO2 eq	-5.21E-1	1.38E-5	-1.54E-6	-5.21E-1	1.01E-5	6.24E-1	6.69E-6	2.03E-1	3.06E-1
GWP-luluc	kg CO2 eq	2.67E-3	8.07E-6	1.49E-7	2.67E-3	5.88E-6	2.12E-4	1.44E-7	-2.17E-3	7.25E-4
ODP	kg CFC11 eq	7.43E-7	5.26E-9	8.26E-12	7.49E-7	3.83E-9	5.97E-8	1.98E-10	-3.91E-7	4.22E-7
AP	mol H+ eq	8.78E-3	1.30E-4	1.47E-6	8.91E-3	9.46E-5	1.09E-3	4.85E-6	-4.22E-3	5.89E-3
EP-fw	kg P eq	8.15E-5	1.88E-7	8.24E-9	8.17E-5	1.37E-7	7.12E-6	6.44E-9	-4.76E-5	4.14E-5
EP-m	kg N eq	1.71E-3	4.65E-5	1.55E-7	1.75E-3	3.38E-5	2.85E-4	3.06E-6	-8.46E-4	1.23E-3
EP-T	mol N eq	1.83E-2	5.12E-4	1.85E-6	1.88E-2	3.73E-4	3.14E-3	1.93E-5	-9.37E-3	1.29E-2
POCP	kg NMVOC eq	6.06E-3	1.46E-4	6.28E-7	6.21E-3	1.07E-4	9.35E-4	6.65E-6	-3.01E-3	4.25E-3
ADP-mm	kg Sb eq	4.18E-4	5.90E-7	1.97E-8	4.19E-4	4.30E-7	4.24E-6	4.89E-9	-1.74E-5	4.06E-4
ADP-f	MJ	4.35E+1	3.50E-1	1.36E-3	4.39E+1	2.55E-1	2.83E+0	1.45E-2	-2.23E+1	2.46E+1
WDP	m3 depriv.	2.35E+0	1.07E-3	5.22E-5	2.35E+0	7.82E-4	1.05E-1	1.08E-4	-1.34E+0	1.12E+0
PM	disease inc.	7.74E-8	2.06E-9	9.08E-12	7.94E-8	1.50E-9	1.37E-8	9.99E-11	-4.65E-8	4.82E-8
IR	kBq U-235 eq	9.01E-2	1.53E-3	1.02E-6	9.16E-2	1.11E-3	1.02E-2	6.65E-5	-4.98E-2	5.32E-2
ETP-fw	CTUe	5.79E+1	2.84E-1	1.21E-2	5.82E+1	2.07E-1	2.05E+1	2.22E-1	-2.78E+1	5.14E+1
HTP-c	CTUh	1.43E-9	1.01E-11	6.17E-13	1.44E-9	7.36E-12	3.53E-10	4.11E-13	-6.94E-10	1.10E-9
HTP-nc	CTUh	3.88E-8	3.39E-10	1.57E-11	3.91E-8	2.47E-10	7.54E-9	4.30E-11	-1.87E-8	2.82E-8
SQP	Pt	5.85E+1	2.99E-1	2.24E-3	5.88E+1	2.18E-1	1.74E+0	3.71E-2	-7.66E+1	-1.58E+1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	1.40E+1	5.02E-3	2.40E-2	1.40E+1	3.66E-3	1.95E-1	5.35E-4	-1.31E+1	1.12E+0
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	1.40E+1	5.02E-3	2.40E-2	1.40E+1	3.66E-3	1.95E-1	5.35E-4	-1.31E+1	1.12E+0
PENRE	MJ	4.67E+1	3.72E-1	1.44E-3	4.71E+1	2.71E-1	3.01E+0	1.54E-2	-2.41E+1	2.63E+1
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	4.67E+1	3.72E-1	1.44E-3	4.71E+1	2.71E-1	3.01E+0	1.54E-2	-2.41E+1	2.63E+1
PET	MJ	6.07E+1	3.77E-1	2.55E-2	6.11E+1	2.74E-1	3.21E+0	1.59E-2	-3.72E+1	2.74E+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	3.03E-2	3.96E-5	1.46E-6	3.03E-2	2.88E-5	2.97E-3	1.77E-5	-1.92E-2	1.41E-2

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	8.12E-5	8.95E-7	2.73E-13	8.21E-5	6.52E-7	4.87E-6	1.78E-8	-2.21E-5	6.55E-5
NHWD	kg	2.07E-1	2.17E-2	1.05E-6	2.29E-1	1.58E-2	1.13E-1	6.36E-2	-9.22E-2	3.29E-1
RWD	kg	8.31E-5	2.38E-6	1.10E-13	8.55E-5	1.73E-6	1.13E-5	9.42E-8	-4.61E-5	5.24E-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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