

Environmental Profile

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

Ecochain v3.5.80



Product: 3021580 - KANION PVC Running Outlet 130/90 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

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Results

Environmental impact	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
GWP-total	kg CO2 eq	8.11E-1	1.41E-2	1.45E-4	8.25E-1	9.37E-3	6.47E-1	3.05E-3	-4.53E-1	1.03E+0
GWP-f	kg CO2 eq	1.04E+0	1.41E-2	1.46E-4	1.05E+0	9.36E-3	3.71E-1	3.05E-3	-5.48E-1	8.85E-1
GWP-b	kg CO2 eq	-2.26E-1	8.58E-6	-1.54E-6	-2.26E-1	5.69E-6	2.76E-1	3.79E-6	9.55E-2	1.46E-1
GWP-luluc	kg CO2 eq	1.41E-3	5.00E-6	1.49E-7	1.42E-3	3.31E-6	1.19E-4	8.08E-8	-1.05E-3	4.96E-4
ODP	kg CFC11 eq	4.22E-7	3.26E-9	8.26E-12	4.25E-7	2.16E-9	3.35E-8	1.12E-10	-2.16E-7	2.44E-7
AP	mol H+ eq	5.06E-3	8.05E-5	1.47E-6	5.14E-3	5.33E-5	6.08E-4	2.74E-6	-2.26E-3	3.54E-3
EP-fw	kg P eq	4.73E-5	1.16E-7	8.24E-9	4.75E-5	7.71E-8	4.01E-6	3.63E-9	-2.51E-5	2.65E-5
EP-m	kg N eq	9.71E-4	2.88E-5	1.55E-7	1.00E-3	1.91E-5	1.57E-4	1.75E-6	-4.44E-4	7.34E-4
EP-T	mol N eq	1.03E-2	3.17E-4	1.85E-6	1.07E-2	2.10E-4	1.73E-3	1.09E-5	-4.90E-3	7.71E-3
POCP	kg NMVOC eq	3.45E-3	9.07E-5	6.28E-7	3.54E-3	6.01E-5	5.15E-4	3.76E-6	-1.62E-3	2.50E-3
ADP-mm	kg Sb eq	7.53E-4	3.66E-7	1.97E-8	7.53E-4	2.42E-7	2.37E-6	2.76E-9	-9.59E-6	7.46E-4
ADP-f	MJ	2.42E+1	2.17E-1	1.36E-3	2.44E+1	1.44E-1	1.58E+0	8.20E-3	-1.21E+1	1.40E+1
WDP	m3 depriv.	1.31E+0	6.66E-4	5.22E-5	1.31E+0	4.41E-4	5.92E-2	5.94E-5	-7.27E-1	6.39E-1
PM	disease inc.	4.45E-8	1.28E-9	9.08E-12	4.58E-8	8.45E-10	7.59E-9	5.65E-11	-2.37E-8	3.06E-8
IR	kBq U-235 eq	5.34E-2	9.48E-4	1.02E-6	5.44E-2	6.28E-4	5.67E-3	3.76E-5	-2.62E-2	3.46E-2
ETP-fw	CTUe	3.53E+1	1.76E-1	1.21E-2	3.54E+1	1.17E-1	1.16E+1	1.26E-1	-1.43E+1	3.30E+1
HTP-c	CTUh	1.05E-9	6.27E-12	6.17E-13	1.05E-9	4.15E-12	1.92E-10	2.31E-13	-3.56E-10	8.93E-10
HTP-nc	CTUh	2.66E-8	2.10E-10	1.57E-11	2.69E-8	1.39E-10	4.23E-9	2.43E-11	-7.86E-9	2.34E-8
SQP	Pt	2.67E+1	1.86E-1	2.24E-3	2.69E+1	1.23E-1	9.79E-1	2.10E-2	-3.50E+1	-6.99E+0
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	6.85E+0	3.11E-3	2.40E-2	6.88E+0	2.06E-3	1.10E-1	3.04E-4	-6.06E+0	9.33E-1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	6.85E+0	3.11E-3	2.40E-2	6.88E+0	2.06E-3	1.10E-1	3.04E-4	-6.06E+0	9.33E-1
PENRE	MJ	2.60E+1	2.30E-1	1.44E-3	2.62E+1	1.53E-1	1.68E+0	8.70E-3	-1.31E+1	1.50E+1
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	2.60E+1	2.30E-1	1.44E-3	2.62E+1	1.53E-1	1.68E+0	8.70E-3	-1.31E+1	1.50E+1
PET	MJ	3.28E+1	2.33E-1	2.55E-2	3.31E+1	1.55E-1	1.79E+0	9.01E-3	-1.91E+1	1.59E+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	1.68E-2	2.45E-5	1.46E-6	1.68E-2	1.63E-5	1.67E-3	1.00E-5	-1.00E-2	8.48E-3

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	1.12E-4	5.55E-7	2.73E-13	1.12E-4	3.68E-7	2.71E-6	1.00E-8	-1.29E-5	1.02E-4
NHWD	kg	1.19E-1	1.34E-2	1.05E-6	1.33E-1	8.91E-3	6.25E-2	3.60E-2	-4.87E-2	1.91E-1
RWD	kg	5.05E-5	1.48E-6	1.10E-13	5.20E-5	9.78E-7	6.25E-6	5.33E-8	-2.42E-5	3.50E-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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