

Environmental Profile

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

Ecochain v3.5.80



Product: 3024183 - KANION PVC Running Outlet 130/110 Graph.
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	1.08E+0	2.26E-2	1.45E-4	1.10E+0	1.39E-2	1.18E+0	4.51E-3	-6.63E-1	1.63E+0
GWP-f	kg CO2 eq	1.59E+0	2.26E-2	1.46E-4	1.62E+0	1.39E-2	5.59E-1	4.51E-3	-8.54E-1	1.34E+0
GWP-b	kg CO2 eq	-5.21E-1	1.37E-5	-1.54E-6	-5.21E-1	8.42E-6	6.19E-1	5.58E-6	1.93E-1	2.92E-1
GWP-luluc	kg CO2 eq	2.49E-3	7.98E-6	1.49E-7	2.50E-3	4.91E-6	1.78E-4	1.20E-7	-2.01E-3	6.66E-4
ODP	kg CFC11 eq	6.20E-7	5.20E-9	8.26E-12	6.25E-7	3.20E-9	5.02E-8	1.66E-10	-3.28E-7	3.50E-7
AP	mol H+ eq	7.86E-3	1.28E-4	1.47E-6	7.99E-3	7.90E-5	9.24E-4	4.05E-6	-3.70E-3	5.30E-3
EP-fw	kg P eq	7.35E-5	1.86E-7	8.24E-9	7.37E-5	1.14E-7	5.97E-6	5.39E-9	-4.23E-5	3.75E-5
EP-m	kg N eq	1.56E-3	4.60E-5	1.55E-7	1.60E-3	2.83E-5	2.43E-4	2.55E-6	-7.50E-4	1.13E-3
EP-T	mol N eq	1.66E-2	5.07E-4	1.85E-6	1.71E-2	3.11E-4	2.67E-3	1.61E-5	-8.33E-3	1.18E-2
POCP	kg NMVOC eq	5.39E-3	1.45E-4	6.28E-7	5.54E-3	8.90E-5	7.95E-4	5.55E-6	-2.67E-3	3.76E-3
ADP-mm	kg Sb eq	1.11E-3	5.84E-7	1.97E-8	1.11E-3	3.59E-7	3.59E-6	4.09E-9	-1.49E-5	1.09E-3
ADP-f	MJ	3.63E+1	3.46E-1	1.36E-3	3.67E+1	2.13E-1	2.39E+0	1.21E-2	-1.89E+1	2.04E+1
WDP	m3 depriv.	1.98E+0	1.06E-3	5.22E-5	1.98E+0	6.53E-4	8.78E-2	9.17E-5	-1.16E+0	9.08E-1
PM	disease inc.	6.94E-8	2.04E-9	9.08E-12	7.14E-8	1.25E-9	1.16E-8	8.34E-11	-4.25E-8	4.18E-8
IR	kBq U-235 eq	7.90E-2	1.51E-3	1.02E-6	8.05E-2	9.30E-4	8.61E-3	5.55E-5	-4.35E-2	4.65E-2
ETP-fw	CTUe	5.82E+1	2.81E-1	1.21E-2	5.85E+1	1.73E-1	1.72E+1	1.85E-1	-2.53E+1	5.07E+1
HTP-c	CTUh	1.38E-9	1.00E-11	6.17E-13	1.39E-9	6.15E-12	2.98E-10	3.44E-13	-6.24E-10	1.07E-9
HTP-nc	CTUh	3.76E-8	3.35E-10	1.57E-11	3.79E-8	2.06E-10	6.32E-9	3.58E-11	-1.64E-8	2.81E-8
SQP	Pt	5.72E+1	2.96E-1	2.24E-3	5.75E+1	1.82E-1	1.47E+0	3.10E-2	-7.43E+1	-1.51E+1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	1.28E+1	4.97E-3	2.40E-2	1.29E+1	3.05E-3	1.64E-1	4.46E-4	-1.26E+1	3.85E-1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	1.28E+1	4.97E-3	2.40E-2	1.29E+1	3.05E-3	1.64E-1	4.46E-4	-1.26E+1	3.85E-1
PENRE	MJ	3.90E+1	3.68E-1	1.44E-3	3.94E+1	2.26E-1	2.54E+0	1.29E-2	-2.03E+1	2.18E+1
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	3.90E+1	3.68E-1	1.44E-3	3.94E+1	2.26E-1	2.54E+0	1.29E-2	-2.03E+1	2.18E+1
PET	MJ	5.18E+1	3.73E-1	2.55E-2	5.22E+1	2.29E-1	2.71E+0	1.33E-2	-3.30E+1	2.22E+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	2.62E-2	3.92E-5	1.46E-6	2.62E-2	2.41E-5	2.48E-3	1.48E-5	-1.70E-2	1.18E-2

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	1.65E-4	8.85E-7	2.73E-13	1.66E-4	5.44E-7	4.13E-6	1.49E-8	-1.90E-5	1.51E-4
NHWD	kg	1.85E-1	2.15E-2	1.05E-6	2.06E-1	1.32E-2	9.50E-2	5.31E-2	-8.22E-2	2.85E-1
RWD	kg	7.25E-5	2.35E-6	1.10E-13	7.49E-5	1.45E-6	9.56E-6	7.86E-8	-4.05E-5	4.55E-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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