

Environmental Profile

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

Ecochain v3.5.80



Product: 3085000 - KANION PVC Stopend ext. 130 Graphite
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	6.55E+0	3.46E-3	1.45E-4	6.56E+0	8.38E-2	2.42E+0	2.61E-2	-3.60E+0	5.49E+0
GWP-f	kg CO2 eq	6.55E+0	3.46E-3	1.46E-4	6.55E+0	8.37E-2	2.34E+0	2.61E-2	-3.60E+0	5.40E+0
GWP-b	kg CO2 eq	-3.20E-4	2.10E-6	-1.54E-6	-3.19E-4	5.09E-5	7.93E-2	3.39E-5	9.15E-3	8.82E-2
GWP-luluc	kg CO2 eq	5.20E-3	1.22E-6	1.49E-7	5.21E-3	2.96E-5	1.08E-3	6.60E-7	-2.59E-3	3.73E-3
ODP	kg CFC11 eq	3.73E-6	7.97E-10	8.26E-12	3.73E-6	1.93E-8	3.00E-7	9.89E-10	-1.81E-6	2.24E-6
AP	mol H+ eq	2.88E-2	1.97E-5	1.47E-6	2.88E-2	4.77E-4	4.95E-3	2.39E-5	-1.38E-2	2.05E-2
EP-fw	kg P eq	2.86E-4	2.85E-8	8.24E-9	2.86E-4	6.89E-7	3.62E-5	3.04E-8	-1.36E-4	1.87E-4
EP-m	kg N eq	4.89E-3	7.05E-6	1.55E-7	4.90E-3	1.71E-4	1.19E-3	1.52E-5	-2.40E-3	3.87E-3
EP-T	mol N eq	5.18E-2	7.77E-5	1.85E-6	5.19E-2	1.88E-3	1.31E-2	9.58E-5	-2.55E-2	4.14E-2
POCP	kg NMVOC eq	1.80E-2	2.22E-5	6.28E-7	1.80E-2	5.38E-4	3.91E-3	3.29E-5	-8.84E-3	1.37E-2
ADP-mm	kg Sb eq	3.51E-4	8.95E-8	1.97E-8	3.51E-4	2.17E-6	1.95E-5	2.37E-8	-7.37E-5	2.99E-4
ADP-f	MJ	1.67E+2	5.31E-2	1.36E-3	1.67E+2	1.29E+0	1.34E+1	7.22E-2	-8.74E+1	9.45E+1
WDP	m3 depriv.	1.10E+1	1.63E-4	5.22E-5	1.10E+1	3.95E-3	5.48E-1	3.37E-4	-5.22E+0	6.34E+0
PM	disease inc.	1.89E-7	3.12E-10	9.08E-12	1.90E-7	7.56E-9	6.02E-8	4.97E-10	-9.03E-8	1.68E-7
IR	kBq U-235 eq	3.57E-1	2.32E-4	1.02E-6	3.57E-1	5.62E-3	4.74E-2	3.34E-4	-1.69E-1	2.41E-1
ETP-fw	CTUe	1.12E+2	4.31E-2	1.21E-2	1.13E+2	1.04E+0	1.09E+2	1.21E+0	-5.26E+1	1.71E+2
HTP-c	CTUh	4.16E-9	1.53E-12	6.17E-13	4.16E-9	3.72E-11	1.40E-9	1.90E-12	-1.94E-9	3.65E-9
HTP-nc	CTUh	1.42E-7	5.14E-11	1.57E-11	1.42E-7	1.24E-9	3.66E-8	2.29E-10	-6.59E-8	1.15E-7
SQP	Pt	2.65E+1	4.54E-2	2.24E-3	2.65E+1	1.10E+0	8.12E+0	1.85E-1	-2.00E+1	1.60E+1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	9.54E+0	7.62E-4	2.40E-2	9.56E+0	1.84E-2	9.90E-1	2.76E-3	-5.56E+0	5.02E+0
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	9.54E+0	7.62E-4	2.40E-2	9.56E+0	1.84E-2	9.90E-1	2.76E-3	-5.56E+0	5.02E+0
PENRE	MJ	1.79E+2	5.64E-2	1.44E-3	1.79E+2	1.36E+0	1.43E+1	7.66E-2	-9.41E+1	1.01E+2
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	1.79E+2	5.64E-2	1.44E-3	1.79E+2	1.36E+0	1.43E+1	7.66E-2	-9.41E+1	1.01E+2
PET	MJ	1.89E+2	5.71E-2	2.55E-2	1.89E+2	1.38E+0	1.52E+1	7.93E-2	-9.97E+1	1.06E+2
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	1.15E-1	6.01E-6	1.46E-6	1.15E-1	1.45E-4	1.49E-2	8.90E-5	-5.52E-2	7.51E-2

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	1.57E-4	1.36E-7	2.73E-13	1.57E-4	3.29E-6	2.16E-5	8.67E-8	-7.33E-5	1.08E-4
NHWD	kg	6.04E-1	3.29E-3	1.05E-6	6.07E-1	7.97E-2	4.77E-1	3.19E-1	-2.81E-1	1.20E+0
RWD	kg	3.14E-4	3.61E-7	1.10E-13	3.15E-4	8.74E-6	5.01E-5	4.71E-7	-1.49E-4	2.25E-4
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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