

Environmental Profile

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

Ecochain v3.5.80



Product: 3043625 - Stopend int. L KANION PVC70 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	1.05E-1	2.58E-3	1.45E-4	1.08E-1	1.13E-3	1.38E-1	3.67E-4	-5.82E-2	1.89E-1
GWP-f	kg CO2 eq	1.70E-1	2.58E-3	1.46E-4	1.73E-1	1.13E-3	5.66E-2	3.67E-4	-9.18E-2	1.39E-1
GWP-b	kg CO2 eq	-6.55E-2	1.57E-6	-1.54E-6	-6.55E-2	6.87E-7	8.15E-2	4.50E-7	3.38E-2	4.99E-2
GWP-luluc	kg CO2 eq	3.30E-4	9.13E-7	1.49E-7	3.31E-4	4.01E-7	1.52E-5	1.00E-8	-2.99E-4	4.80E-5
ODP	kg CFC11 eq	5.32E-8	5.94E-10	8.26E-12	5.38E-8	2.61E-10	4.39E-9	1.34E-11	-2.93E-8	2.91E-8
AP	mol H+ eq	8.48E-4	1.47E-5	1.47E-6	8.64E-4	6.45E-6	8.80E-5	3.29E-7	-4.24E-4	5.35E-4
EP-fw	kg P eq	8.07E-6	2.12E-8	8.24E-9	8.10E-6	9.31E-9	5.14E-7	4.45E-10	-5.28E-6	3.34E-6
EP-m	kg N eq	1.82E-4	5.26E-6	1.55E-7	1.87E-4	2.31E-6	2.45E-5	1.99E-7	-9.01E-5	1.24E-4
EP-T	mol N eq	1.91E-3	5.79E-5	1.85E-6	1.97E-3	2.54E-5	2.69E-4	1.31E-6	-1.01E-3	1.25E-3
POCP	kg NMVOC eq	6.10E-4	1.66E-5	6.28E-7	6.27E-4	7.27E-6	8.00E-5	4.52E-7	-3.20E-4	3.95E-4
ADP-mm	kg Sb eq	1.00E-4	6.67E-8	1.97E-8	1.00E-4	2.93E-8	3.43E-7	3.35E-10	-1.38E-6	9.91E-5
ADP-f	MJ	3.65E+0	3.96E-2	1.36E-3	3.69E+0	1.74E-2	2.18E-1	9.84E-4	-1.89E+0	2.04E+0
WDP	m3 depriv.	1.77E-1	1.21E-4	5.22E-5	1.77E-1	5.33E-5	7.28E-3	8.33E-6	-1.23E-1	6.21E-2
PM	disease inc.	8.56E-9	2.33E-10	9.08E-12	8.80E-9	1.02E-10	1.13E-9	6.77E-12	-5.77E-9	4.27E-9
IR	kBq U-235 eq	7.81E-3	1.73E-4	1.02E-6	7.98E-3	7.59E-5	8.02E-4	4.49E-6	-4.81E-3	4.05E-3
ETP-fw	CTUe	7.60E+0	3.21E-2	1.21E-2	7.65E+0	1.41E-2	1.42E+0	1.49E-2	-3.63E+0	5.48E+0
HTP-c	CTUh	1.91E-10	1.14E-12	6.17E-13	1.93E-10	5.02E-13	2.92E-11	2.85E-14	-7.06E-11	1.52E-10
HTP-nc	CTUh	4.21E-9	3.83E-11	1.57E-11	4.27E-9	1.68E-11	5.64E-10	2.88E-12	-1.22E-9	3.63E-9
SQP	Pt	7.40E+0	3.39E-2	2.24E-3	7.44E+0	1.49E-2	1.36E-1	2.51E-3	-1.09E+1	-3.34E+0
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	1.51E+0	5.68E-4	2.40E-2	1.53E+0	2.49E-4	1.41E-2	3.57E-5	-1.86E+0	-3.16E-1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	1.51E+0	5.68E-4	2.40E-2	1.53E+0	2.49E-4	1.41E-2	3.57E-5	-1.86E+0	-3.16E-1
PENRE	MJ	3.92E+0	4.20E-2	1.44E-3	3.96E+0	1.84E-2	2.32E-1	1.04E-3	-2.04E+0	2.18E+0
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	3.92E+0	4.20E-2	1.44E-3	3.96E+0	1.84E-2	2.32E-1	1.04E-3	-2.04E+0	2.18E+0
PET	MJ	5.42E+0	4.26E-2	2.55E-2	5.49E+0	1.87E-2	2.46E-1	1.08E-3	-3.90E+0	1.86E+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	2.64E-3	4.48E-6	1.46E-6	2.65E-3	1.97E-6	2.09E-4	1.20E-6	-2.11E-3	7.52E-4

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	1.56E-5	1.01E-7	2.73E-13	1.57E-5	4.44E-8	3.99E-7	1.21E-9	-2.37E-6	1.38E-5
NHWD	kg	2.28E-2	2.45E-3	1.05E-6	2.53E-2	1.08E-3	9.28E-3	4.31E-3	-9.38E-3	3.05E-2
RWD	kg	7.26E-6	2.69E-7	1.10E-13	7.52E-6	1.18E-7	9.26E-7	6.37E-9	-4.57E-6	4.00E-6
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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