

Environmental Profile

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

Ecochain v3.5.80



Product: 3004595 - PVC Hanging Gutter GY PVC 5" Endcap Left
Unit: 1 piece
Manufacturer: Wavin - PL -Buk - Extra products

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]

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Results

Environmental impact	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
GWP-total	kg CO2 eq	8.16E-2	1.26E-3	1.45E-4	8.31E-2	1.21E-3	7.63E-2	3.90E-4	-5.99E-2	1.01E-1
GWP-f	kg CO2 eq	1.14E-1	1.26E-3	1.46E-4	1.15E-1	1.21E-3	4.19E-2	3.90E-4	-6.20E-2	9.68E-2
GWP-b	kg CO2 eq	-3.24E-2	7.66E-7	-1.54E-6	-3.24E-2	7.33E-7	3.44E-2	4.81E-7	2.14E-3	4.12E-3
GWP-luluc	kg CO2 eq	1.24E-4	4.47E-7	1.49E-7	1.24E-4	4.27E-7	1.50E-5	1.05E-8	-6.67E-5	7.32E-5
ODP	kg CFC11 eq	5.16E-8	2.91E-10	8.26E-12	5.18E-8	2.78E-10	4.13E-9	1.43E-11	-2.72E-8	2.91E-8
AP	mol H+ eq	5.55E-4	7.19E-6	1.47E-6	5.64E-4	6.87E-6	7.21E-5	3.50E-7	-2.41E-4	4.02E-4
EP-fw	kg P eq	5.15E-6	1.04E-8	8.24E-9	5.17E-6	9.93E-9	5.02E-7	4.71E-10	-2.35E-6	3.33E-6
EP-m	kg N eq	9.93E-5	2.57E-6	1.55E-7	1.02E-4	2.46E-6	1.80E-5	2.13E-7	-4.58E-5	7.69E-5
EP-T	mol N eq	1.09E-3	2.83E-5	1.85E-6	1.13E-3	2.71E-5	1.98E-4	1.39E-6	-4.99E-4	8.53E-4
POCP	kg NMVOC eq	3.67E-4	8.10E-6	6.28E-7	3.76E-4	7.75E-6	5.91E-5	4.81E-7	-1.72E-4	2.71E-4
ADP-mm	kg Sb eq	9.93E-5	3.26E-8	1.97E-8	9.94E-5	3.12E-8	2.81E-7	3.55E-10	-1.15E-6	9.85E-5
ADP-f	MJ	2.71E+0	1.94E-2	1.36E-3	2.73E+0	1.85E-2	1.93E-1	1.05E-3	-1.43E+0	1.51E+0
WDP	m3 depriv.	1.63E-1	5.94E-5	5.22E-5	1.63E-1	5.69E-5	7.49E-3	8.48E-6	-7.96E-2	9.10E-2
PM	disease inc.	4.27E-9	1.14E-10	9.08E-12	4.40E-9	1.09E-10	8.94E-10	7.22E-12	-2.10E-9	3.31E-9
IR	kBq U-235 eq	5.90E-3	8.47E-5	1.02E-6	5.98E-3	8.10E-5	6.84E-4	4.79E-6	-2.79E-3	3.96E-3
ETP-fw	CTUe	3.13E+0	1.57E-2	1.21E-2	3.16E+0	1.50E-2	1.46E+0	1.60E-2	-1.05E+0	3.59E+0
HTP-c	CTUh	1.08E-10	5.60E-13	6.17E-13	1.09E-10	5.35E-13	2.36E-11	3.01E-14	-4.11E-11	9.22E-11
HTP-nc	CTUh	3.00E-9	1.87E-11	1.57E-11	3.04E-9	1.79E-11	5.22E-10	3.10E-12	-1.05E-9	2.53E-9
SQP	Pt	3.27E+0	1.66E-2	2.24E-3	3.28E+0	1.58E-2	1.20E-1	2.68E-3	-2.92E+0	5.02E-1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	7.48E-1	2.78E-4	2.40E-2	7.72E-1	2.66E-4	1.38E-2	3.82E-5	-4.86E-1	3.01E-1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	7.48E-1	2.78E-4	2.40E-2	7.72E-1	2.66E-4	1.38E-2	3.82E-5	-4.86E-1	3.01E-1
PENRE	MJ	2.91E+0	2.06E-2	1.44E-3	2.93E+0	1.97E-2	2.06E-1	1.11E-3	-1.54E+0	1.61E+0
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	2.91E+0	2.06E-2	1.44E-3	2.93E+0	1.97E-2	2.06E-1	1.11E-3	-1.54E+0	1.61E+0
PET	MJ	3.66E+0	2.08E-2	2.55E-2	3.70E+0	1.99E-2	2.19E-1	1.15E-3	-2.03E+0	1.91E+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	1.98E-3	2.19E-6	1.46E-6	1.99E-3	2.10E-6	2.07E-4	1.28E-6	-9.15E-4	1.28E-3

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	1.45E-5	4.95E-8	2.73E-13	1.45E-5	4.74E-8	3.19E-7	1.29E-9	-1.37E-6	1.35E-5
NHWD	kg	1.26E-2	1.20E-3	1.05E-6	1.38E-2	1.15E-3	7.45E-3	4.59E-3	-5.52E-3	2.15E-2
RWD	kg	5.24E-6	1.32E-7	1.10E-13	5.37E-6	1.26E-7	7.39E-7	6.79E-9	-2.55E-6	3.69E-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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