

Environmental Profile

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

Ecochain v3.5.80



Product: 3025913 - Gutter Outlet Stopend LGY 25 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	9.70E-2	1.97E-3	1.45E-4	9.91E-2	1.19E-3	8.38E-2	3.75E-4	-5.81E-2	1.26E-1
GWP-f	kg CO2 eq	1.29E-1	1.96E-3	1.46E-4	1.31E-1	1.18E-3	4.73E-2	3.75E-4	-6.50E-2	1.15E-1
GWP-b	kg CO2 eq	-3.24E-2	1.19E-6	-1.54E-6	-3.24E-2	7.19E-7	3.65E-2	4.49E-7	7.01E-3	1.11E-2
GWP-luluc	kg CO2 eq	1.62E-4	6.95E-7	1.49E-7	1.63E-4	4.19E-7	1.41E-5	1.07E-8	-9.88E-5	7.89E-5
ODP	kg CFC11 eq	4.78E-8	4.53E-10	8.26E-12	4.83E-8	2.73E-10	3.82E-9	1.39E-11	-2.63E-8	2.61E-8
AP	mol H+ eq	8.06E-4	1.12E-5	1.47E-6	8.18E-4	6.75E-6	7.09E-5	3.41E-7	-2.54E-4	6.42E-4
EP-fw	kg P eq	6.01E-6	1.62E-8	8.24E-9	6.03E-6	9.75E-9	4.69E-7	4.69E-10	-2.65E-6	3.86E-6
EP-m	kg N eq	1.23E-4	4.00E-6	1.55E-7	1.27E-4	2.41E-6	1.83E-5	1.98E-7	-4.98E-5	9.85E-5
EP-T	mol N eq	1.33E-3	4.41E-5	1.85E-6	1.38E-3	2.66E-5	2.02E-4	1.35E-6	-5.47E-4	1.06E-3
POCP	kg NMVOC eq	4.46E-4	1.26E-5	6.28E-7	4.60E-4	7.61E-6	6.03E-5	4.65E-7	-1.82E-4	3.46E-4
ADP-mm	kg Sb eq	1.47E-4	5.08E-8	1.97E-8	1.47E-4	3.06E-8	2.75E-7	3.50E-10	-1.12E-6	1.47E-4
ADP-f	MJ	2.90E+0	3.01E-2	1.36E-3	2.93E+0	1.82E-2	1.88E-1	1.02E-3	-1.46E+0	1.67E+0
WDP	m3 depriv.	1.68E-1	9.25E-5	5.22E-5	1.68E-1	5.58E-5	6.88E-3	1.04E-5	-8.23E-2	9.26E-2
PM	disease inc.	5.50E-9	1.77E-10	9.08E-12	5.68E-9	1.07E-10	8.99E-10	6.98E-12	-2.48E-9	4.22E-9
IR	kBq U-235 eq	6.47E-3	1.32E-4	1.02E-6	6.60E-3	7.95E-5	6.65E-4	4.59E-6	-2.97E-3	4.38E-3
ETP-fw	CTUe	4.43E+0	2.45E-2	1.21E-2	4.47E+0	1.48E-2	1.31E+0	1.42E-2	-1.37E+0	4.43E+0
HTP-c	CTUh	1.48E-10	8.71E-13	6.17E-13	1.49E-10	5.25E-13	2.54E-11	3.03E-14	-4.24E-11	1.33E-10
HTP-nc	CTUh	3.55E-9	2.92E-11	1.57E-11	3.59E-9	1.76E-11	4.98E-10	2.78E-12	-1.14E-9	2.97E-9
SQP	Pt	3.57E+0	2.58E-2	2.24E-3	3.59E+0	1.56E-2	1.19E-1	2.57E-3	-3.78E+0	-5.17E-2
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	8.84E-1	4.32E-4	2.40E-2	9.08E-1	2.61E-4	1.29E-2	3.52E-5	-6.40E-1	2.81E-1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	8.84E-1	4.32E-4	2.40E-2	9.08E-1	2.61E-4	1.29E-2	3.52E-5	-6.40E-1	2.81E-1
PENRE	MJ	3.11E+0	3.20E-2	1.44E-3	3.14E+0	1.93E-2	2.00E-1	1.08E-3	-1.58E+0	1.78E+0
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	3.11E+0	3.20E-2	1.44E-3	3.14E+0	1.93E-2	2.00E-1	1.08E-3	-1.58E+0	1.78E+0
PET	MJ	3.99E+0	3.24E-2	2.55E-2	4.05E+0	1.96E-2	2.13E-1	1.11E-3	-2.22E+0	2.06E+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	2.38E-3	3.41E-6	1.46E-6	2.39E-3	2.06E-6	1.92E-4	1.23E-6	-1.06E-3	1.53E-3

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	2.06E-5	7.71E-8	2.73E-13	2.07E-5	4.65E-8	3.19E-7	1.27E-9	-1.41E-6	1.97E-5
NHWD	kg	2.17E-2	1.87E-3	1.05E-6	2.36E-2	1.13E-3	7.75E-3	4.51E-3	-5.66E-3	3.13E-2
RWD	kg	5.82E-6	2.05E-7	1.10E-13	6.03E-6	1.24E-7	7.35E-7	6.56E-9	-2.73E-6	4.16E-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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