

Environmental Profile

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

Ecochain v3.5.64



Product: 3017931 - Prot.Pipe BK 110x10 L=100
Unit: 1 piece
Manufacturer: Wavin - DE - Westeregeln - verified
Address: Borrweg 10
39448 Börde-Hakel
Germany
Contact: https://www.wavin.com/en-en

LCA standard: EN15804+A2 (2019)
Standard database: Worldwide - Ecoinvent v 3.6 Cut-Off
Externally verified: Yes
Issue date: 11-08-2022
End of validity: 11-08-2027
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 - DE - Westeregeln - verified (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					D Reuse- Recovery- Recycling- potential											
A5 Assembly / Construction installation process																

Results

Environmental impact	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
GWP-total	kg CO2 eq	1.09E+2	2.74E-1	1.29E+1	1.22E+2	8.29E+0	2.69E+2	4.58E+0	5.90E+0	4.10E+2
GWP-f	kg CO2 eq	8.65E+1	2.74E-1	1.06E+1	9.74E+1	8.28E+0	2.69E+2	4.58E+0	5.28E+0	3.85E+2
GWP-b	kg CO2 eq	2.19E+1	1.27E-4	1.09E+0	2.30E+1	5.03E-3	-3.31E-1	3.44E-3	6.09E-1	2.33E+1
GWP-luluc	kg CO2 eq	1.63E-1	1.00E-4	1.23E+0	1.39E+0	2.93E-3	4.65E-2	6.67E-5	3.38E-2	1.48E+0
ODP	kg CFC11 eq	7.43E-6	6.05E-8	1.39E-6	8.88E-6	1.91E-6	6.05E-6	9.79E-8	-9.11E-6	7.83E-6
AP	mol H+ eq	4.77E-1	1.59E-3	6.29E-2	5.41E-1	4.72E-2	2.54E-1	2.34E-3	3.56E-1	1.20E+0
EP-fw	kg P eq	7.63E-3	2.77E-6	2.41E-4	7.87E-3	6.81E-5	1.34E-3	3.06E-6	1.94E-3	1.12E-2
EP-m	kg N eq	7.49E-2	5.60E-4	1.29E-2	8.84E-2	1.69E-2	7.40E-2	1.64E-3	4.77E-2	2.29E-1
EP-T	mol N eq	7.89E-1	6.18E-3	1.30E-1	9.25E-1	1.86E-1	8.14E-1	9.49E-3	5.37E-1	2.47E+0
POCP	kg NMVOC eq	2.01E-1	1.76E-3	3.75E-2	2.40E-1	5.32E-2	2.57E-1	3.72E-3	3.10E-1	8.64E-1
ADP-mm	kg Sb eq	1.97E-3	6.95E-6	3.13E-4	2.29E-3	2.14E-4	1.01E-3	2.35E-6	1.07E-3	4.58E-3
ADP-f	MJ	1.53E+3	4.13E+0	1.25E+2	1.66E+3	1.27E+2	8.07E+2	7.15E+0	2.37E+3	4.97E+3
WDP	m3 depriv.	1.84E+1	1.48E-2	7.12E+1	8.96E+1	3.90E-1	1.58E+1	3.58E-2	9.42E+1	2.00E+2
PM	disease inc.	4.83E-6	2.46E-8	5.63E-7	5.42E-6	7.47E-7	4.19E-6	4.91E-8	3.37E-6	1.38E-5
IR	kBq U-235 eq	1.20E+1	1.73E-2	3.36E-1	1.23E+1	5.55E-1	2.43E+0	3.33E-2	2.36E+0	1.77E+1
ETP-fw	CTUe	2.67E+3	3.69E+0	3.06E+2	2.98E+3	1.03E+2	9.15E+2	6.30E+0	5.35E+2	4.54E+3
HTP-c	CTUh	5.15E-8	1.20E-10	1.14E-8	6.30E-8	3.67E-9	1.10E-7	1.76E-10	2.44E-8	2.01E-7
HTP-nc	CTUh	1.30E-6	4.03E-9	2.93E-7	1.60E-6	1.23E-7	1.38E-6	4.02E-9	6.44E-7	3.75E-6
SQP	Pt	6.37E+2	3.59E+0	1.20E+1	6.53E+2	1.09E+2	6.44E+2	1.83E+1	8.92E+1	1.51E+3
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	2.66E+2	5.18E-2	6.63E+2	9.30E+2	1.82E+0	3.98E+1	2.81E-1	6.83E+1	1.04E+3
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	2.66E+2	5.18E-2	6.63E+2	9.30E+2	1.82E+0	3.98E+1	2.81E-1	6.83E+1	1.04E+3
PENRE	MJ	1.61E+3	4.39E+0	1.33E+2	1.75E+3	1.35E+2	8.60E+2	7.59E+0	2.48E+3	5.23E+3
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	1.61E+3	4.39E+0	1.33E+2	1.75E+3	1.35E+2	8.60E+2	7.59E+0	2.48E+3	5.23E+3
PET	MJ	1.88E+3	4.44E+0	7.97E+2	2.68E+3	1.37E+2	8.99E+2	7.87E+0	2.54E+3	6.27E+3
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	1.22E+0	5.04E-4	1.69E+0	2.92E+0	1.44E-2	4.66E-1	8.83E-3	1.37E+0	4.78E+0

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	1.33E-3	1.05E-5	2.02E-4	1.54E-3	3.25E-4	1.32E-3	8.61E-6	-1.84E-3	1.35E-3
NHWD	kg	1.45E+1	2.62E-1	2.54E-1	1.51E+1	7.88E+0	3.96E+1	3.15E+1	3.15E+0	9.72E+1
RWD	kg	9.94E-3	2.72E-5	4.82E-4	1.04E-2	8.64E-4	3.08E-3	4.67E-5	1.83E-3	1.63E-2
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



Ecochain Technologies BV
H.J.E. Wenckebachweg 123, 1096 AM Amsterdam, The Netherlands
<https://www.ecochain.com>
+31 20 3035 777