

Environmental Profile

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

Ecochain v3.5.80



Product: 3003282 - PE Cap BL 110 Mortar LID
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]

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	4.12E-2	1.47E-4	1.45E-4	4.15E-2	6.06E-4	6.63E-2	3.33E-4	-3.91E-2	6.96E-2
GWP-f	kg CO2 eq	7.41E-2	1.47E-4	1.46E-4	7.44E-2	6.05E-4	3.06E-2	3.33E-4	-4.44E-2	6.15E-2
GWP-b	kg CO2 eq	-3.30E-2	8.94E-8	-1.54E-6	-3.30E-2	3.68E-7	3.57E-2	2.50E-7	5.34E-3	8.06E-3
GWP-luluc	kg CO2 eq	8.51E-5	5.21E-8	1.49E-7	8.53E-5	2.14E-7	3.71E-6	5.09E-9	-6.63E-5	2.29E-5
ODP	kg CFC11 eq	3.40E-9	3.39E-11	8.26E-12	3.45E-9	1.40E-10	5.82E-10	7.17E-12	-3.51E-9	6.68E-10
AP	mol H+ eq	3.25E-4	8.39E-7	1.47E-6	3.27E-4	3.45E-6	2.43E-5	1.72E-7	-1.52E-4	2.03E-4
EP-fw	kg P eq	2.38E-6	1.21E-9	8.24E-9	2.39E-6	4.98E-9	1.09E-7	2.30E-10	-1.32E-6	1.18E-6
EP-m	kg N eq	6.28E-5	3.00E-7	1.55E-7	6.32E-5	1.23E-6	7.63E-6	1.19E-7	-3.21E-5	4.01E-5
EP-T	mol N eq	6.92E-4	3.31E-6	1.85E-6	6.98E-4	1.36E-5	8.40E-5	6.97E-7	-3.63E-4	4.32E-4
POCP	kg NMVOC eq	3.19E-4	9.46E-7	6.28E-7	3.21E-4	3.89E-6	2.58E-5	2.72E-7	-1.58E-4	1.93E-4
ADP-mm	kg Sb eq	1.30E-6	3.81E-9	1.97E-8	1.32E-6	1.57E-8	9.17E-8	1.75E-10	-3.28E-7	1.10E-6
ADP-f	MJ	2.17E+0	2.26E-3	1.36E-3	2.17E+0	9.29E-3	6.88E-2	5.25E-4	-1.15E+0	1.10E+0
WDP	m3 depriv.	6.69E-2	6.94E-6	5.22E-5	6.70E-2	2.85E-5	1.25E-3	3.36E-6	-3.60E-2	3.23E-2
PM	disease inc.	3.15E-9	1.33E-11	9.08E-12	3.17E-9	5.47E-11	3.81E-10	3.61E-12	-1.79E-9	1.82E-9
IR	kBq U-235 eq	2.69E-3	9.88E-6	1.02E-6	2.70E-3	4.06E-5	2.20E-4	2.43E-6	-1.49E-3	1.48E-3
ETP-fw	CTUe	1.45E+0	1.84E-3	1.21E-2	1.47E+0	7.55E-3	8.31E-2	4.61E-4	-7.11E-1	8.47E-1
HTP-c	CTUh	4.11E-11	6.53E-14	6.17E-13	4.18E-11	2.69E-13	1.11E-11	1.34E-14	-2.18E-11	3.13E-11
HTP-nc	CTUh	8.13E-10	2.19E-12	1.57E-11	8.31E-10	9.00E-12	1.26E-10	2.98E-13	-3.87E-10	5.79E-10
SQP	Pt	3.17E+0	1.93E-3	2.24E-3	3.17E+0	7.95E-3	5.37E-2	1.34E-3	-3.37E+0	-1.35E-1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	7.40E-1	3.24E-5	2.40E-2	7.65E-1	1.33E-4	3.22E-3	2.02E-5	-5.50E-1	2.17E-1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	7.40E-1	3.24E-5	2.40E-2	7.65E-1	1.33E-4	3.22E-3	2.02E-5	-5.50E-1	2.17E-1
PENRE	MJ	2.32E+0	2.40E-3	1.44E-3	2.32E+0	9.87E-3	7.32E-2	5.57E-4	-1.24E+0	1.17E+0
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	2.32E+0	2.40E-3	1.44E-3	2.32E+0	9.87E-3	7.32E-2	5.57E-4	-1.24E+0	1.17E+0
PET	MJ	3.06E+0	2.43E-3	2.55E-2	3.09E+0	1.00E-2	7.65E-2	5.77E-4	-1.79E+0	1.38E+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	1.13E-3	2.56E-7	1.46E-6	1.13E-3	1.05E-6	3.96E-5	6.44E-7	-6.25E-4	5.45E-4

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	6.83E-7	5.78E-9	2.73E-13	6.89E-7	2.38E-8	1.22E-7	6.38E-10	-6.46E-7	1.90E-7
NHWD	kg	5.93E-3	1.40E-4	1.05E-6	6.07E-3	5.76E-4	3.81E-3	2.30E-3	-2.71E-3	1.00E-2
RWD	kg	2.42E-6	1.54E-8	1.10E-13	2.43E-6	6.32E-8	2.85E-7	3.42E-9	-1.39E-6	1.39E-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



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