

Environmental Profile

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

Ecochain v3.5.80



Product: 3003283 - PE Cap BL 125 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	5.00E-2	4.36E-5	1.45E-4	5.02E-2	7.11E-4	6.97E-2	3.91E-4	-4.46E-2	7.64E-2
GWP-f	kg CO2 eq	8.28E-2	4.36E-5	1.46E-4	8.30E-2	7.11E-4	3.40E-2	3.91E-4	-4.97E-2	6.85E-2
GWP-b	kg CO2 eq	-3.29E-2	2.65E-8	-1.54E-6	-3.29E-2	4.32E-7	3.57E-2	2.93E-7	5.20E-3	7.95E-3
GWP-luluc	kg CO2 eq	8.91E-5	1.54E-8	1.49E-7	8.92E-5	2.52E-7	4.30E-6	5.92E-9	-6.76E-5	2.62E-5
ODP	kg CFC11 eq	3.63E-9	1.00E-11	8.26E-12	3.65E-9	1.64E-10	6.58E-10	8.42E-12	-3.75E-9	7.37E-10
AP	mol H+ eq	3.60E-4	2.48E-7	1.47E-6	3.61E-4	4.05E-6	2.75E-5	2.02E-7	-1.67E-4	2.26E-4
EP-fw	kg P eq	2.61E-6	3.59E-10	8.24E-9	2.62E-6	5.85E-9	1.26E-7	2.69E-10	-1.42E-6	1.34E-6
EP-m	kg N eq	6.85E-5	8.88E-8	1.55E-7	6.87E-5	1.45E-6	8.56E-6	1.40E-7	-3.49E-5	4.40E-5
EP-T	mol N eq	7.57E-4	9.79E-7	1.85E-6	7.59E-4	1.60E-5	9.42E-5	8.17E-7	-3.94E-4	4.77E-4
POCP	kg NMVOC eq	3.56E-4	2.80E-7	6.28E-7	3.57E-4	4.56E-6	2.91E-5	3.19E-7	-1.76E-4	2.16E-4
ADP-mm	kg Sb eq	1.44E-6	1.13E-9	1.97E-8	1.46E-6	1.84E-8	1.04E-7	2.05E-10	-3.62E-7	1.23E-6
ADP-f	MJ	2.46E+0	6.69E-4	1.36E-3	2.46E+0	1.09E-2	7.89E-2	6.16E-4	-1.31E+0	1.24E+0
WDP	m3 depriv.	7.65E-2	2.05E-6	5.22E-5	7.66E-2	3.35E-5	1.45E-3	3.78E-6	-4.03E-2	3.78E-2
PM	disease inc.	3.41E-9	3.93E-12	9.08E-12	3.42E-9	6.42E-11	4.34E-10	4.23E-12	-1.89E-9	2.03E-9
IR	kBq U-235 eq	3.01E-3	2.92E-6	1.02E-6	3.01E-3	4.77E-5	2.50E-4	2.85E-6	-1.63E-3	1.68E-3
ETP-fw	CTUe	1.52E+0	5.43E-4	1.21E-2	1.53E+0	8.86E-3	9.46E-2	5.41E-4	-7.28E-1	9.07E-1
HTP-c	CTUh	4.45E-11	1.93E-14	6.17E-13	4.52E-11	3.15E-13	1.25E-11	1.57E-14	-2.28E-11	3.52E-11
HTP-nc	CTUh	9.03E-10	6.48E-13	1.57E-11	9.19E-10	1.06E-11	1.43E-10	3.49E-13	-4.12E-10	6.61E-10
SQP	Pt	3.18E+0	5.72E-4	2.24E-3	3.18E+0	9.33E-3	6.18E-2	1.58E-3	-3.36E+0	-9.91E-2
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	7.98E-1	9.60E-6	2.40E-2	8.22E-1	1.57E-4	3.72E-3	2.38E-5	-5.50E-1	2.75E-1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	7.98E-1	9.60E-6	2.40E-2	8.22E-1	1.57E-4	3.72E-3	2.38E-5	-5.50E-1	2.75E-1
PENRE	MJ	2.64E+0	7.10E-4	1.44E-3	2.64E+0	1.16E-2	8.41E-2	6.53E-4	-1.42E+0	1.32E+0
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	2.64E+0	7.10E-4	1.44E-3	2.64E+0	1.16E-2	8.41E-2	6.53E-4	-1.42E+0	1.32E+0
PET	MJ	3.44E+0	7.20E-4	2.55E-2	3.46E+0	1.17E-2	8.78E-2	6.77E-4	-1.97E+0	1.60E+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	1.26E-3	7.57E-8	1.46E-6	1.27E-3	1.23E-6	4.55E-5	7.56E-7	-6.85E-4	6.28E-4

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	7.22E-7	1.71E-9	2.73E-13	7.24E-7	2.79E-8	1.39E-7	7.47E-10	-6.90E-7	2.02E-7
NHWD	kg	6.29E-3	4.15E-5	1.05E-6	6.33E-3	6.76E-4	4.31E-3	2.70E-3	-2.85E-3	1.12E-2
RWD	kg	2.68E-6	4.55E-9	1.10E-13	2.69E-6	7.42E-8	3.24E-7	4.01E-9	-1.52E-6	1.57E-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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