

Environmental Profile

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

Ecochain v3.5.80



Product: 3003281 - PE Cap BL 100 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	3.66E-2	7.22E-5	1.45E-4	3.68E-2	5.01E-4	6.60E-2	2.74E-4	-3.68E-2	6.68E-2
GWP-f	kg CO2 eq	6.98E-2	7.22E-5	1.46E-4	7.00E-2	5.00E-4	3.08E-2	2.75E-4	-4.07E-2	6.09E-2
GWP-b	kg CO2 eq	-3.32E-2	4.38E-8	-1.54E-6	-3.32E-2	3.04E-7	3.51E-2	2.06E-7	4.01E-3	5.92E-3
GWP-luluc	kg CO2 eq	7.76E-5	2.55E-8	1.49E-7	7.78E-5	1.77E-7	3.11E-6	4.25E-9	-5.50E-5	2.61E-5
ODP	kg CFC11 eq	3.19E-9	1.66E-11	8.26E-12	3.22E-9	1.15E-10	4.96E-10	5.93E-12	-3.41E-9	4.27E-10
AP	mol H+ eq	3.14E-4	4.11E-7	1.47E-6	3.16E-4	2.85E-6	2.10E-5	1.43E-7	-1.32E-4	2.08E-4
EP-fw	kg P eq	2.26E-6	5.94E-10	8.24E-9	2.26E-6	4.12E-9	9.19E-8	1.92E-10	-1.11E-6	1.26E-6
EP-m	kg N eq	5.95E-5	1.47E-7	1.55E-7	5.98E-5	1.02E-6	6.71E-6	9.76E-8	-2.84E-5	3.92E-5
EP-T	mol N eq	6.60E-4	1.62E-6	1.85E-6	6.63E-4	1.12E-5	7.39E-5	5.76E-7	-3.22E-4	4.28E-4
POCP	kg NMVOC eq	3.00E-4	4.63E-7	6.28E-7	3.01E-4	3.21E-6	2.26E-5	2.25E-7	-1.39E-4	1.89E-4
ADP-mm	kg Sb eq	1.32E-6	1.87E-9	1.97E-8	1.35E-6	1.29E-8	7.70E-8	1.45E-10	-2.86E-7	1.15E-6
ADP-f	MJ	1.98E+0	1.11E-3	1.36E-3	1.99E+0	7.68E-3	5.81E-2	4.34E-4	-1.02E+0	1.03E+0
WDP	m3 depriv.	6.06E-2	3.40E-6	5.22E-5	6.07E-2	2.36E-5	1.05E-3	2.95E-6	-2.97E-2	3.20E-2
PM	disease inc.	3.02E-9	6.52E-12	9.08E-12	3.03E-9	4.51E-11	3.25E-10	2.98E-12	-1.56E-9	1.85E-9
IR	kBq U-235 eq	2.44E-3	4.84E-6	1.02E-6	2.45E-3	3.36E-5	1.86E-4	2.00E-6	-1.27E-3	1.40E-3
ETP-fw	CTUe	1.35E+0	9.00E-4	1.21E-2	1.37E+0	6.23E-3	7.05E-2	3.81E-4	-5.87E-1	8.56E-1
HTP-c	CTUh	4.28E-11	3.20E-14	6.17E-13	4.34E-11	2.22E-13	1.00E-11	1.12E-14	-2.02E-11	3.35E-11
HTP-nc	CTUh	8.52E-10	1.07E-12	1.57E-11	8.69E-10	7.43E-12	1.10E-10	2.47E-13	-3.36E-10	6.51E-10
SQP	Pt	3.13E+0	9.48E-4	2.24E-3	3.13E+0	6.57E-3	4.54E-2	1.11E-3	-3.12E+0	6.49E-2
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	8.48E-1	1.59E-5	2.40E-2	8.72E-1	1.10E-4	2.71E-3	1.66E-5	-5.03E-1	3.72E-1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	8.48E-1	1.59E-5	2.40E-2	8.72E-1	1.10E-4	2.71E-3	1.66E-5	-5.03E-1	3.72E-1
PENRE	MJ	2.13E+0	1.18E-3	1.44E-3	2.13E+0	8.15E-3	6.18E-2	4.60E-4	-1.10E+0	1.10E+0
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	2.13E+0	1.18E-3	1.44E-3	2.13E+0	8.15E-3	6.18E-2	4.60E-4	-1.10E+0	1.10E+0
PET	MJ	2.97E+0	1.19E-3	2.55E-2	3.00E+0	8.26E-3	6.45E-2	4.77E-4	-1.61E+0	1.47E+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	1.06E-3	1.25E-7	1.46E-6	1.06E-3	8.69E-7	3.41E-5	5.32E-7	-5.14E-4	5.84E-4

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	6.41E-7	2.83E-9	2.73E-13	6.43E-7	1.96E-8	1.05E-7	5.29E-10	-6.32E-7	1.37E-7
NHWD	kg	5.70E-3	6.87E-5	1.05E-6	5.77E-3	4.76E-4	3.45E-3	1.90E-3	-2.47E-3	9.12E-3
RWD	kg	2.19E-6	7.54E-9	1.10E-13	2.20E-6	5.22E-8	2.42E-7	2.82E-9	-1.20E-6	1.30E-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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