

Environmental Profile

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

Ecochain v3.5.80



Product: 3003279 - PE Cap BL 80 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	1.25E-2	9.18E-5	1.45E-4	1.28E-2	3.16E-4	5.42E-2	1.72E-4	-2.45E-2	4.30E-2
GWP-f	kg CO2 eq	4.57E-2	9.17E-5	1.46E-4	4.59E-2	3.16E-4	1.95E-2	1.72E-4	-2.75E-2	3.85E-2
GWP-b	kg CO2 eq	-3.32E-2	5.57E-8	-1.54E-6	-3.32E-2	1.92E-7	3.47E-2	1.29E-7	3.06E-3	4.53E-3
GWP-luluc	kg CO2 eq	5.77E-5	3.25E-8	1.49E-7	5.79E-5	1.12E-7	2.01E-6	2.78E-9	-4.43E-5	1.57E-5
ODP	kg CFC11 eq	2.36E-9	2.11E-11	8.26E-12	2.39E-9	7.28E-11	3.34E-10	3.75E-12	-2.56E-9	2.41E-10
AP	mol H+ eq	2.06E-4	5.23E-7	1.47E-6	2.08E-4	1.80E-6	1.40E-5	9.07E-8	-9.64E-5	1.27E-4
EP-fw	kg P eq	1.49E-6	7.55E-10	8.24E-9	1.50E-6	2.60E-9	5.96E-8	1.24E-10	-8.26E-7	7.40E-7
EP-m	kg N eq	4.10E-5	1.87E-7	1.55E-7	4.13E-5	6.44E-7	4.52E-6	6.08E-8	-2.14E-5	2.51E-5
EP-T	mol N eq	4.55E-4	2.06E-6	1.85E-6	4.59E-4	7.09E-6	4.99E-5	3.65E-7	-2.44E-4	2.72E-4
POCP	kg NMVOC eq	2.01E-4	5.89E-7	6.28E-7	2.02E-4	2.03E-6	1.52E-5	1.42E-7	-1.01E-4	1.19E-4
ADP-mm	kg Sb eq	8.22E-7	2.37E-9	1.97E-8	8.44E-7	8.17E-9	5.12E-8	9.32E-11	-2.18E-7	6.86E-7
ADP-f	MJ	1.27E+0	1.41E-3	1.36E-3	1.27E+0	4.85E-3	3.81E-2	2.75E-4	-6.72E-1	6.43E-1
WDP	m3 depriv.	3.84E-2	4.32E-6	5.22E-5	3.85E-2	1.49E-5	6.69E-4	2.22E-6	-2.01E-2	1.90E-2
PM	disease inc.	2.17E-9	8.28E-12	9.08E-12	2.18E-9	2.85E-11	2.15E-10	1.89E-12	-1.25E-9	1.18E-9
IR	kBq U-235 eq	1.65E-3	6.16E-6	1.02E-6	1.66E-3	2.12E-5	1.24E-4	1.26E-6	-9.15E-4	8.93E-4
ETP-fw	CTUe	8.98E-1	1.14E-3	1.21E-2	9.12E-1	3.94E-3	4.64E-2	2.41E-4	-4.61E-1	5.01E-1
HTP-c	CTUh	2.87E-11	4.07E-14	6.17E-13	2.94E-11	1.40E-13	6.78E-12	7.38E-15	-1.76E-11	1.87E-11
HTP-nc	CTUh	4.86E-10	1.36E-12	1.57E-11	5.03E-10	4.69E-12	7.23E-11	1.58E-13	-2.64E-10	3.16E-10
SQP	Pt	3.01E+0	1.20E-3	2.24E-3	3.01E+0	4.15E-3	2.97E-2	7.01E-4	-2.93E+0	1.20E-1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	5.14E-1	2.02E-5	2.40E-2	5.38E-1	6.96E-5	1.75E-3	1.03E-5	-4.64E-1	7.62E-2
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	5.14E-1	2.02E-5	2.40E-2	5.38E-1	6.96E-5	1.75E-3	1.03E-5	-4.64E-1	7.62E-2
PENRE	MJ	1.36E+0	1.50E-3	1.44E-3	1.36E+0	5.15E-3	4.06E-2	2.92E-4	-7.25E-1	6.83E-1
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	1.36E+0	1.50E-3	1.44E-3	1.36E+0	5.15E-3	4.06E-2	2.92E-4	-7.25E-1	6.83E-1
PET	MJ	1.87E+0	1.52E-3	2.55E-2	1.90E+0	5.22E-3	4.24E-2	3.02E-4	-1.19E+0	7.60E-1
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	6.86E-4	1.59E-7	1.46E-6	6.88E-4	5.49E-7	2.22E-5	3.35E-7	-3.58E-4	3.53E-4

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	5.15E-7	3.60E-9	2.73E-13	5.19E-7	1.24E-8	6.99E-8	3.38E-10	-4.75E-7	1.26E-7
NHWD	kg	4.37E-3	8.73E-5	1.05E-6	4.46E-3	3.01E-4	2.26E-3	1.20E-3	-2.09E-3	6.12E-3
RWD	kg	1.53E-6	9.58E-9	1.10E-13	1.54E-6	3.30E-8	1.63E-7	1.78E-9	-8.86E-7	8.51E-7
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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