

Environmental Profile

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

Ecochain v3.5.80



Product: 3003284 - PE Cap BL 160 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	9.92E-2	4.59E-5	1.45E-4	9.94E-2	1.26E-3	8.93E-2	6.97E-4	-7.18E-2	1.19E-1
GWP-f	kg CO2 eq	1.32E-1	4.59E-5	1.46E-4	1.32E-1	1.26E-3	5.25E-2	6.98E-4	-7.94E-2	1.07E-1
GWP-b	kg CO2 eq	-3.24E-2	2.79E-8	-1.54E-6	-3.24E-2	7.67E-7	3.68E-2	5.23E-7	7.69E-3	1.20E-2
GWP-luluc	kg CO2 eq	1.28E-4	1.62E-8	1.49E-7	1.28E-4	4.47E-7	7.48E-6	1.03E-8	-9.66E-5	3.93E-5
ODP	kg CFC11 eq	5.25E-9	1.06E-11	8.26E-12	5.27E-9	2.91E-10	1.10E-9	1.50E-11	-5.25E-9	1.42E-9
AP	mol H+ eq	5.57E-4	2.61E-7	1.47E-6	5.59E-4	7.20E-6	4.58E-5	3.58E-7	-2.62E-4	3.50E-4
EP-fw	kg P eq	4.05E-6	3.78E-10	8.24E-9	4.05E-6	1.04E-8	2.19E-7	4.71E-10	-2.20E-6	2.08E-6
EP-m	kg N eq	1.04E-4	9.35E-8	1.55E-7	1.04E-4	2.58E-6	1.40E-5	2.50E-7	-5.28E-5	6.79E-5
EP-T	mol N eq	1.14E-3	1.03E-6	1.85E-6	1.15E-3	2.84E-5	1.54E-4	1.45E-6	-5.94E-4	7.36E-4
POCP	kg NMVOC eq	5.61E-4	2.95E-7	6.28E-7	5.62E-4	8.11E-6	4.79E-5	5.68E-7	-2.78E-4	3.41E-4
ADP-mm	kg Sb eq	2.20E-6	1.19E-9	1.97E-8	2.22E-6	3.27E-8	1.77E-7	3.61E-10	-5.60E-7	1.87E-6
ADP-f	MJ	4.06E+0	7.04E-4	1.36E-3	4.06E+0	1.94E-2	1.35E-1	1.09E-3	-2.19E+0	2.03E+0
WDP	m3 depriv.	1.28E-1	2.16E-6	5.22E-5	1.28E-1	5.95E-5	2.53E-3	5.96E-6	-6.77E-2	6.29E-2
PM	disease inc.	4.98E-9	4.14E-12	9.08E-12	5.00E-9	1.14E-10	7.33E-10	7.51E-12	-2.74E-9	3.11E-9
IR	kBq U-235 eq	4.82E-3	3.08E-6	1.02E-6	4.82E-3	8.48E-5	4.24E-4	5.07E-6	-2.60E-3	2.73E-3
ETP-fw	CTUe	2.25E+0	5.72E-4	1.21E-2	2.26E+0	1.57E-2	1.61E-1	9.62E-4	-1.06E+0	1.37E+0
HTP-c	CTUh	6.32E-11	2.04E-14	6.17E-13	6.39E-11	5.60E-13	2.01E-11	2.72E-14	-2.97E-11	5.49E-11
HTP-nc	CTUh	1.40E-9	6.82E-13	1.57E-11	1.41E-9	1.88E-11	2.39E-10	6.16E-13	-6.07E-10	1.07E-9
SQP	Pt	3.38E+0	6.03E-4	2.24E-3	3.39E+0	1.66E-2	1.06E-1	2.80E-3	-3.86E+0	-3.53E-1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	1.09E+0	1.01E-5	2.40E-2	1.11E+0	2.78E-4	6.46E-3	4.27E-5	-6.55E-1	4.65E-1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	1.09E+0	1.01E-5	2.40E-2	1.11E+0	2.78E-4	6.46E-3	4.27E-5	-6.55E-1	4.65E-1
PENRE	MJ	4.35E+0	7.48E-4	1.44E-3	4.35E+0	2.06E-2	1.44E-1	1.16E-3	-2.36E+0	2.16E+0
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	4.35E+0	7.48E-4	1.44E-3	4.35E+0	2.06E-2	1.44E-1	1.16E-3	-2.36E+0	2.16E+0
PET	MJ	5.44E+0	7.58E-4	2.55E-2	5.47E+0	2.09E-2	1.51E-1	1.20E-3	-3.01E+0	2.63E+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	2.02E-3	7.97E-8	1.46E-6	2.03E-3	2.19E-6	7.77E-5	1.35E-6	-1.12E-3	9.85E-4

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	9.89E-7	1.80E-9	2.73E-13	9.90E-7	4.96E-8	2.33E-7	1.32E-9	-9.62E-7	3.13E-7
NHWD	kg	8.70E-3	4.37E-5	1.05E-6	8.74E-3	1.20E-3	7.07E-3	4.81E-3	-3.87E-3	1.80E-2
RWD	kg	4.23E-6	4.79E-9	1.10E-13	4.23E-6	1.32E-7	5.45E-7	7.13E-9	-2.36E-6	2.55E-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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