

Environmental Profile

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

Ecochain v3.5.80



Product: 3003276 - PE Cap BL 63 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	2.42E-3	4.29E-5	1.45E-4	2.61E-3	1.84E-4	5.06E-2	9.95E-5	-1.93E-2	3.42E-2
GWP-f	kg CO2 eq	3.58E-2	4.29E-5	1.46E-4	3.60E-2	1.84E-4	1.65E-2	9.95E-5	-2.09E-2	3.19E-2
GWP-b	kg CO2 eq	-3.34E-2	2.60E-8	-1.54E-6	-3.34E-2	1.12E-7	3.40E-2	7.44E-8	1.61E-3	2.26E-3
GWP-luluc	kg CO2 eq	4.58E-5	1.52E-8	1.49E-7	4.59E-5	6.52E-8	1.24E-6	1.74E-9	-3.15E-5	1.58E-5
ODP	kg CFC11 eq	1.97E-9	9.88E-12	8.26E-12	1.98E-9	4.25E-11	2.21E-10	2.19E-12	-2.24E-9	1.25E-11
AP	mol H+ eq	1.69E-4	2.44E-7	1.47E-6	1.71E-4	1.05E-6	9.51E-6	5.36E-8	-7.05E-5	1.11E-4
EP-fw	kg P eq	1.19E-6	3.53E-10	8.24E-9	1.20E-6	1.52E-9	3.71E-8	7.61E-11	-5.67E-7	6.75E-7
EP-m	kg N eq	3.33E-5	8.74E-8	1.55E-7	3.36E-5	3.76E-7	3.17E-6	3.46E-8	-1.65E-5	2.07E-5
EP-T	mol N eq	3.74E-4	9.63E-7	1.85E-6	3.77E-4	4.14E-6	3.51E-5	2.14E-7	-1.88E-4	2.28E-4
POCP	kg NMVOC eq	1.59E-4	2.75E-7	6.28E-7	1.60E-4	1.18E-6	1.05E-5	8.31E-8	-7.50E-5	9.68E-5
ADP-mm	kg Sb eq	7.44E-7	1.11E-9	1.97E-8	7.65E-7	4.77E-9	3.25E-8	5.60E-11	-1.65E-7	6.37E-7
ADP-f	MJ	9.30E-1	6.58E-4	1.36E-3	9.32E-1	2.83E-3	2.42E-2	1.61E-4	-4.73E-1	4.87E-1
WDP	m3 depriv.	2.74E-2	2.02E-6	5.22E-5	2.75E-2	8.68E-6	4.11E-4	1.70E-6	-1.25E-2	1.54E-2
PM	disease inc.	1.83E-9	3.87E-12	9.08E-12	1.85E-9	1.66E-11	1.41E-10	1.11E-12	-9.72E-10	1.03E-9
IR	kBq U-235 eq	1.24E-3	2.88E-6	1.02E-6	1.24E-3	1.24E-5	8.08E-5	7.33E-7	-6.37E-4	6.99E-4
ETP-fw	CTUe	6.97E-1	5.34E-4	1.21E-2	7.10E-1	2.30E-3	2.97E-2	1.41E-4	-3.18E-1	4.24E-1
HTP-c	CTUh	2.72E-11	1.90E-14	6.17E-13	2.78E-11	8.17E-14	5.03E-12	4.62E-15	-1.55E-11	1.74E-11
HTP-nc	CTUh	4.43E-10	6.37E-13	1.57E-11	4.59E-10	2.74E-12	4.97E-11	9.40E-14	-2.02E-10	3.10E-10
SQP	Pt	2.94E+0	5.63E-4	2.24E-3	2.95E+0	2.42E-3	1.89E-2	4.09E-4	-2.65E+0	3.17E-1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	5.50E-1	9.44E-6	2.40E-2	5.74E-1	4.06E-5	1.09E-3	5.83E-6	-4.11E-1	1.64E-1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	5.50E-1	9.44E-6	2.40E-2	5.74E-1	4.06E-5	1.09E-3	5.83E-6	-4.11E-1	1.64E-1
PENRE	MJ	9.97E-1	6.99E-4	1.44E-3	9.99E-1	3.00E-3	2.58E-2	1.71E-4	-5.11E-1	5.16E-1
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	9.97E-1	6.99E-4	1.44E-3	9.99E-1	3.00E-3	2.58E-2	1.71E-4	-5.11E-1	5.16E-1
PET	MJ	1.55E+0	7.08E-4	2.55E-2	1.57E+0	3.04E-3	2.69E-2	1.77E-4	-9.23E-1	6.80E-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	5.31E-4	7.45E-8	1.46E-6	5.33E-4	3.20E-7	1.45E-5	1.95E-7	-2.23E-4	3.25E-4

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	4.45E-7	1.68E-9	2.73E-13	4.47E-7	7.23E-9	4.62E-8	2.02E-10	-4.18E-7	8.28E-8
NHWD	kg	3.80E-3	4.08E-5	1.05E-6	3.84E-3	1.75E-4	1.64E-3	7.01E-4	-1.79E-3	4.56E-3
RWD	kg	1.16E-6	4.47E-9	1.10E-13	1.17E-6	1.92E-8	1.06E-7	1.04E-9	-6.41E-7	6.52E-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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