

Environmental Profile

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

Ecochain v3.5.80



Product: 3003274 - PE Cap BL 40 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	-7.49E-3	4.86E-5	1.45E-4	-7.30E-3	1.05E-4	4.51E-2	5.57E-5	-1.42E-2	2.38E-2
GWP-f	kg CO2 eq	2.59E-2	4.86E-5	1.46E-4	2.61E-2	1.05E-4	1.14E-2	5.57E-5	-1.51E-2	2.25E-2
GWP-b	kg CO2 eq	-3.34E-2	2.95E-8	-1.54E-6	-3.34E-2	6.39E-8	3.38E-2	4.15E-8	9.68E-4	1.33E-3
GWP-luluc	kg CO2 eq	3.65E-5	1.72E-8	1.49E-7	3.67E-5	3.73E-8	7.75E-7	1.11E-9	-2.50E-5	1.25E-5
ODP	kg CFC11 eq	1.63E-9	1.12E-11	8.26E-12	1.65E-9	2.43E-11	1.51E-10	1.26E-12	-1.85E-9	-2.00E-11
AP	mol H+ eq	1.28E-4	2.77E-7	1.47E-6	1.29E-4	6.00E-7	6.50E-6	3.13E-8	-5.51E-5	8.13E-5
EP-fw	kg P eq	9.01E-7	4.00E-10	8.24E-9	9.10E-7	8.66E-10	2.36E-8	4.72E-11	-4.35E-7	4.99E-7
EP-m	kg N eq	2.58E-5	9.90E-8	1.55E-7	2.60E-5	2.15E-7	2.21E-6	1.88E-8	-1.34E-5	1.51E-5
EP-T	mol N eq	2.91E-4	1.09E-6	1.85E-6	2.94E-4	2.36E-6	2.45E-5	1.24E-7	-1.54E-4	1.67E-4
POCP	kg NMVOC eq	1.19E-4	3.12E-7	6.28E-7	1.20E-4	6.76E-7	7.23E-6	4.77E-8	-5.95E-5	6.83E-5
ADP-mm	kg Sb eq	5.91E-7	1.26E-9	1.97E-8	6.12E-7	2.72E-9	2.16E-8	3.37E-11	-1.34E-7	5.02E-7
ADP-f	MJ	6.21E-1	7.46E-4	1.36E-3	6.23E-1	1.62E-3	1.57E-2	9.30E-5	-3.19E-1	3.21E-1
WDP	m3 depriv.	1.78E-2	2.29E-6	5.22E-5	1.78E-2	4.96E-6	2.48E-4	1.38E-6	-8.06E-3	1.00E-2
PM	disease inc.	1.52E-9	4.39E-12	9.08E-12	1.53E-9	9.50E-12	9.35E-11	6.40E-13	-8.33E-10	8.00E-10
IR	kBq U-235 eq	8.97E-4	3.26E-6	1.02E-6	9.02E-4	7.06E-6	5.44E-5	4.16E-7	-4.67E-4	4.96E-4
ETP-fw	CTUe	5.32E-1	6.06E-4	1.21E-2	5.45E-1	1.31E-3	1.94E-2	8.07E-5	-2.55E-1	3.11E-1
HTP-c	CTUh	2.77E-11	2.16E-14	6.17E-13	2.84E-11	4.67E-14	3.59E-12	2.97E-15	-1.43E-11	1.77E-11
HTP-nc	CTUh	3.88E-10	7.22E-13	1.57E-11	4.05E-10	1.56E-12	3.34E-11	5.58E-14	-1.17E-10	3.23E-10
SQP	Pt	2.89E+0	6.38E-4	2.24E-3	2.89E+0	1.38E-3	1.24E-2	2.34E-4	-2.53E+0	3.81E-1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	4.83E-1	1.07E-5	2.40E-2	5.07E-1	2.32E-5	6.93E-4	3.13E-6	-3.87E-1	1.21E-1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	4.83E-1	1.07E-5	2.40E-2	5.07E-1	2.32E-5	6.93E-4	3.13E-6	-3.87E-1	1.21E-1
PENRE	MJ	6.65E-1	7.92E-4	1.44E-3	6.67E-1	1.72E-3	1.67E-2	9.88E-5	-3.45E-1	3.41E-1
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	6.65E-1	7.92E-4	1.44E-3	6.67E-1	1.72E-3	1.67E-2	9.88E-5	-3.45E-1	3.41E-1
PET	MJ	1.15E+0	8.03E-4	2.55E-2	1.17E+0	1.74E-3	1.74E-2	1.02E-4	-7.32E-1	4.62E-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	3.70E-4	8.44E-8	1.46E-6	3.71E-4	1.83E-7	9.33E-6	1.10E-7	-1.49E-4	2.32E-4

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	4.14E-7	1.91E-9	2.73E-13	4.16E-7	4.13E-9	3.13E-8	1.20E-10	-3.75E-7	7.72E-8
NHWD	kg	3.38E-3	4.62E-5	1.05E-6	3.43E-3	1.00E-4	1.12E-3	4.01E-4	-1.64E-3	3.41E-3
RWD	kg	8.73E-7	5.07E-9	1.10E-13	8.78E-7	1.10E-8	7.23E-8	5.95E-10	-4.90E-7	4.72E-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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