

Environmental Profile

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

Ecochain v3.5.80



Product: 3003277 - PE Cap BL 75 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	1.07E-2	3.25E-5	1.45E-4	1.09E-2	2.90E-4	5.33E-2	1.58E-4	-2.32E-2	4.14E-2
GWP-f	kg CO2 eq	4.39E-2	3.25E-5	1.46E-4	4.41E-2	2.90E-4	1.87E-2	1.58E-4	-2.60E-2	3.72E-2
GWP-b	kg CO2 eq	-3.32E-2	1.97E-8	-1.54E-6	-3.32E-2	1.76E-7	3.46E-2	1.18E-7	2.83E-3	4.16E-3
GWP-luluc	kg CO2 eq	5.59E-5	1.15E-8	1.49E-7	5.60E-5	1.02E-7	1.86E-6	2.58E-9	-4.21E-5	1.59E-5
ODP	kg CFC11 eq	2.31E-9	7.49E-12	8.26E-12	2.32E-9	6.67E-11	3.12E-10	3.44E-12	-2.49E-9	2.19E-10
AP	mol H+ eq	2.02E-4	1.85E-7	1.47E-6	2.03E-4	1.65E-6	1.31E-5	8.33E-8	-9.13E-5	1.27E-4
EP-fw	kg P eq	1.45E-6	2.67E-10	8.24E-9	1.46E-6	2.38E-9	5.51E-8	1.15E-10	-7.79E-7	7.40E-7
EP-m	kg N eq	3.98E-5	6.62E-8	1.55E-7	4.00E-5	5.90E-7	4.24E-6	5.56E-8	-2.05E-5	2.44E-5
EP-T	mol N eq	4.43E-4	7.30E-7	1.85E-6	4.45E-4	6.50E-6	4.68E-5	3.35E-7	-2.33E-4	2.65E-4
POCP	kg NMVOC eq	1.93E-4	2.09E-7	6.28E-7	1.94E-4	1.86E-6	1.42E-5	1.30E-7	-9.58E-5	1.15E-4
ADP-mm	kg Sb eq	8.64E-7	8.40E-10	1.97E-8	8.85E-7	7.49E-9	4.75E-8	8.58E-11	-2.07E-7	7.32E-7
ADP-f	MJ	1.20E+0	4.99E-4	1.36E-3	1.20E+0	4.44E-3	3.54E-2	2.52E-4	-6.30E-1	6.10E-1
WDP	m3 depriv.	3.61E-2	1.53E-6	5.22E-5	3.62E-2	1.36E-5	6.17E-4	2.11E-6	-1.87E-2	1.82E-2
PM	disease inc.	2.12E-9	2.93E-12	9.08E-12	2.13E-9	2.61E-11	2.00E-10	1.73E-12	-1.20E-9	1.16E-9
IR	kBq U-235 eq	1.57E-3	2.18E-6	1.02E-6	1.57E-3	1.94E-5	1.16E-4	1.16E-6	-8.62E-4	8.46E-4
ETP-fw	CTUe	8.97E-1	4.05E-4	1.21E-2	9.10E-1	3.61E-3	4.30E-2	2.21E-4	-4.37E-1	5.20E-1
HTP-c	CTUh	3.02E-11	1.44E-14	6.17E-13	3.08E-11	1.28E-13	6.41E-12	6.83E-15	-1.72E-11	2.02E-11
HTP-nc	CTUh	5.22E-10	4.83E-13	1.57E-11	5.39E-10	4.30E-12	6.76E-11	1.45E-13	-2.53E-10	3.58E-10
SQP	Pt	3.00E+0	4.27E-4	2.24E-3	3.01E+0	3.80E-3	2.75E-2	6.42E-4	-2.88E+0	1.57E-1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	5.93E-1	7.15E-6	2.40E-2	6.17E-1	6.38E-5	1.62E-3	9.42E-6	-4.55E-1	1.64E-1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	5.93E-1	7.15E-6	2.40E-2	6.17E-1	6.38E-5	1.62E-3	9.42E-6	-4.55E-1	1.64E-1
PENRE	MJ	1.28E+0	5.29E-4	1.44E-3	1.29E+0	4.72E-3	3.76E-2	2.67E-4	-6.80E-1	6.48E-1
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	1.28E+0	5.29E-4	1.44E-3	1.29E+0	4.72E-3	3.76E-2	2.67E-4	-6.80E-1	6.48E-1
PET	MJ	1.88E+0	5.37E-4	2.55E-2	1.90E+0	4.78E-3	3.93E-2	2.77E-4	-1.14E+0	8.12E-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	6.55E-4	5.64E-8	1.46E-6	6.57E-4	5.03E-7	2.06E-5	3.07E-7	-3.33E-4	3.45E-4

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	5.01E-7	1.28E-9	2.73E-13	5.02E-7	1.14E-8	6.51E-8	3.11E-10	-4.61E-7	1.18E-7
NHWD	kg	4.25E-3	3.09E-5	1.05E-6	4.28E-3	2.75E-4	2.12E-3	1.10E-3	-2.04E-3	5.74E-3
RWD	kg	1.45E-6	3.39E-9	1.10E-13	1.46E-6	3.02E-8	1.51E-7	1.64E-9	-8.39E-7	7.99E-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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