

Environmental Profile

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

Ecochain v3.5.80



Product: 3003280 - PE Cap BL 90 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	2.46E-2	4.31E-5	1.45E-4	2.48E-2	4.22E-4	5.96E-2	2.31E-4	-3.03E-2	5.47E-2
GWP-f	kg CO2 eq	5.77E-2	4.31E-5	1.46E-4	5.79E-2	4.21E-4	2.44E-2	2.31E-4	-3.43E-2	4.87E-2
GWP-b	kg CO2 eq	-3.32E-2	2.62E-8	-1.54E-6	-3.32E-2	2.56E-7	3.51E-2	1.73E-7	4.04E-3	6.00E-3
GWP-luluc	kg CO2 eq	6.98E-5	1.53E-8	1.49E-7	6.99E-5	1.49E-7	2.64E-6	3.62E-9	-5.34E-5	1.93E-5
ODP	kg CFC11 eq	2.82E-9	9.93E-12	8.26E-12	2.84E-9	9.71E-11	4.29E-10	4.99E-12	-2.97E-9	3.93E-10
AP	mol H+ eq	2.59E-4	2.46E-7	1.47E-6	2.60E-4	2.40E-6	1.80E-5	1.20E-7	-1.18E-4	1.63E-4
EP-fw	kg P eq	1.88E-6	3.55E-10	8.24E-9	1.89E-6	3.47E-9	7.81E-8	1.63E-10	-1.02E-6	9.52E-7
EP-m	kg N eq	5.05E-5	8.79E-8	1.55E-7	5.07E-5	8.58E-7	5.74E-6	8.18E-8	-2.56E-5	3.18E-5
EP-T	mol N eq	5.59E-4	9.68E-7	1.85E-6	5.62E-4	9.46E-6	6.32E-5	4.86E-7	-2.91E-4	3.44E-4
POCP	kg NMVOC eq	2.51E-4	2.77E-7	6.28E-7	2.52E-4	2.70E-6	1.93E-5	1.89E-7	-1.23E-4	1.51E-4
ADP-mm	kg Sb eq	1.07E-6	1.12E-9	1.97E-8	1.09E-6	1.09E-8	6.65E-8	1.23E-10	-2.59E-7	9.07E-7
ADP-f	MJ	1.63E+0	6.62E-4	1.36E-3	1.63E+0	6.47E-3	4.96E-2	3.66E-4	-8.58E-1	8.30E-1
WDP	m3 depriv.	4.98E-2	2.03E-6	5.22E-5	4.98E-2	1.98E-5	8.83E-4	2.63E-6	-2.61E-2	2.46E-2
PM	disease inc.	2.60E-9	3.89E-12	9.08E-12	2.61E-9	3.80E-11	2.78E-10	2.51E-12	-1.46E-9	1.47E-9
IR	kBq U-235 eq	2.07E-3	2.89E-6	1.02E-6	2.07E-3	2.83E-5	1.60E-4	1.69E-6	-1.14E-3	1.13E-3
ETP-fw	CTUe	1.17E+0	5.37E-4	1.21E-2	1.18E+0	5.25E-3	6.03E-2	3.21E-4	-5.64E-1	6.81E-1
HTP-c	CTUh	3.54E-11	1.91E-14	6.17E-13	3.60E-11	1.87E-13	8.48E-12	9.59E-15	-1.93E-11	2.54E-11
HTP-nc	CTUh	6.60E-10	6.40E-13	1.57E-11	6.76E-10	6.26E-12	9.29E-11	2.09E-13	-3.13E-10	4.63E-10
SQP	Pt	3.08E+0	5.66E-4	2.24E-3	3.09E+0	5.53E-3	3.87E-2	9.34E-4	-3.11E+0	1.69E-2
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	6.66E-1	9.49E-6	2.40E-2	6.90E-1	9.27E-5	2.30E-3	1.39E-5	-5.00E-1	1.92E-1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	6.66E-1	9.49E-6	2.40E-2	6.90E-1	9.27E-5	2.30E-3	1.39E-5	-5.00E-1	1.92E-1
PENRE	MJ	1.75E+0	7.02E-4	1.44E-3	1.75E+0	6.86E-3	5.28E-2	3.88E-4	-9.26E-1	8.83E-1
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	1.75E+0	7.02E-4	1.44E-3	1.75E+0	6.86E-3	5.28E-2	3.88E-4	-9.26E-1	8.83E-1
PET	MJ	2.41E+0	7.12E-4	2.55E-2	2.44E+0	6.96E-3	5.51E-2	4.02E-4	-1.43E+0	1.07E+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	8.71E-4	7.49E-8	1.46E-6	8.72E-4	7.32E-7	2.88E-5	4.47E-7	-4.62E-4	4.40E-4

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	5.86E-7	1.69E-9	2.73E-13	5.88E-7	1.65E-8	8.99E-8	4.47E-10	-5.50E-7	1.44E-7
NHWD	kg	5.06E-3	4.10E-5	1.05E-6	5.10E-3	4.01E-4	2.87E-3	1.60E-3	-2.33E-3	7.64E-3
RWD	kg	1.88E-6	4.50E-9	1.10E-13	1.89E-6	4.40E-8	2.09E-7	2.38E-9	-1.08E-6	1.06E-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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