

Environmental Profile

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

Ecochain v3.5.80



Product: 3003275 - PE Cap BL 50 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

This document and supporting material contain confidential and proprietary business information of Wavin - PL -Buk - Extra products. These materials may be printed or (photo) copied or otherwise used only with the written consent of Wavin - PL -Buk - Extra products.

Results

Environmental impact	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
GWP-total	kg CO2 eq	-2.70E-3	2.51E-5	1.45E-4	-2.53E-3	1.58E-4	4.74E-2	8.49E-5	-1.64E-2	2.86E-2
GWP-f	kg CO2 eq	3.06E-2	2.51E-5	1.46E-4	3.08E-2	1.58E-4	1.33E-2	8.49E-5	-1.80E-2	2.63E-2
GWP-b	kg CO2 eq	-3.33E-2	1.52E-8	-1.54E-6	-3.33E-2	9.59E-8	3.40E-2	6.34E-8	1.62E-3	2.31E-3
GWP-luluc	kg CO2 eq	4.24E-5	8.87E-9	1.49E-7	4.25E-5	5.59E-8	1.08E-6	1.53E-9	-3.09E-5	1.28E-5
ODP	kg CFC11 eq	1.81E-9	5.77E-12	8.26E-12	1.83E-9	3.64E-11	1.96E-10	1.88E-12	-2.03E-9	3.48E-11
AP	mol H+ eq	1.47E-4	1.43E-7	1.47E-6	1.49E-4	9.00E-7	8.32E-6	4.61E-8	-6.53E-5	9.25E-5
EP-fw	kg P eq	1.04E-6	2.06E-10	8.24E-9	1.05E-6	1.30E-9	3.22E-8	6.65E-11	-5.37E-7	5.44E-7
EP-m	kg N eq	2.95E-5	5.11E-8	1.55E-7	2.97E-5	3.22E-7	2.78E-6	2.93E-8	-1.54E-5	1.74E-5
EP-T	mol N eq	3.31E-4	5.63E-7	1.85E-6	3.33E-4	3.55E-6	3.07E-5	1.84E-7	-1.76E-4	1.91E-4
POCP	kg NMVOC eq	1.38E-4	1.61E-7	6.28E-7	1.39E-4	1.01E-6	9.17E-6	7.13E-8	-6.91E-5	8.02E-5
ADP-mm	kg Sb eq	6.62E-7	6.48E-10	1.97E-8	6.82E-7	4.09E-9	2.87E-8	4.86E-11	-1.56E-7	5.59E-7
ADP-f	MJ	7.79E-1	3.85E-4	1.36E-3	7.81E-1	2.42E-3	2.12E-2	1.38E-4	-4.06E-1	3.98E-1
WDP	m3 depriv.	2.29E-2	1.18E-6	5.22E-5	2.30E-2	7.44E-6	3.53E-4	1.59E-6	-1.12E-2	1.21E-2
PM	disease inc.	1.66E-9	2.26E-12	9.08E-12	1.67E-9	1.43E-11	1.23E-10	9.53E-13	-9.39E-10	8.68E-10
IR	kBq U-235 eq	1.08E-3	1.68E-6	1.02E-6	1.08E-3	1.06E-5	7.14E-5	6.27E-7	-5.90E-4	5.75E-4
ETP-fw	CTUe	6.34E-1	3.12E-4	1.21E-2	6.46E-1	1.97E-3	2.59E-2	1.21E-4	-3.09E-1	3.65E-1
HTP-c	CTUh	2.51E-11	1.11E-14	6.17E-13	2.57E-11	7.01E-14	4.38E-12	4.07E-15	-1.52E-11	1.50E-11
HTP-nc	CTUh	3.88E-10	3.72E-13	1.57E-11	4.04E-10	2.35E-12	4.27E-11	8.13E-14	-1.94E-10	2.56E-10
SQP	Pt	2.93E+0	3.29E-4	2.24E-3	2.93E+0	2.07E-3	1.65E-2	3.51E-4	-2.65E+0	2.98E-1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	5.19E-1	5.52E-6	2.40E-2	5.43E-1	3.48E-5	9.47E-4	4.93E-6	-4.10E-1	1.34E-1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	5.19E-1	5.52E-6	2.40E-2	5.43E-1	3.48E-5	9.47E-4	4.93E-6	-4.10E-1	1.34E-1
PENRE	MJ	8.35E-1	4.08E-4	1.44E-3	8.37E-1	2.57E-3	2.26E-2	1.47E-4	-4.39E-1	4.23E-1
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	8.35E-1	4.08E-4	1.44E-3	8.37E-1	2.57E-3	2.26E-2	1.47E-4	-4.39E-1	4.23E-1
PET	MJ	1.35E+0	4.14E-4	2.55E-2	1.38E+0	2.61E-3	2.35E-2	1.52E-4	-8.49E-1	5.57E-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	4.48E-4	4.35E-8	1.46E-6	4.50E-4	2.74E-7	1.25E-5	1.67E-7	-2.05E-4	2.57E-4

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	4.18E-7	9.84E-10	2.73E-13	4.19E-7	6.20E-9	4.06E-8	1.75E-10	-3.77E-7	8.89E-8
NHWD	kg	3.47E-3	2.38E-5	1.05E-6	3.50E-3	1.50E-4	1.39E-3	6.01E-4	-1.74E-3	3.90E-3
RWD	kg	1.03E-6	2.62E-9	1.10E-13	1.03E-6	1.65E-8	9.42E-8	8.92E-10	-5.97E-7	5.47E-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



Ecochain Technologies BV
H.J.E. Wenckebachweg 123, 1096 AM Amsterdam, The Netherlands
<https://www.ecochain.com>
+31 20 3035 777