

Environmental Profile

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

Ecochain v3.5.80



Product: 3003273 - PE Cap BL 32 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	-1.03E-2	4.23E-5	1.45E-4	-1.01E-2	7.90E-5	4.43E-2	4.11E-5	-1.26E-2	2.17E-2
GWP-f	kg CO2 eq	2.31E-2	4.23E-5	1.46E-4	2.33E-2	7.90E-5	1.05E-2	4.11E-5	-1.35E-2	2.04E-2
GWP-b	kg CO2 eq	-3.34E-2	2.57E-8	-1.54E-6	-3.34E-2	4.80E-8	3.38E-2	3.06E-8	9.73E-4	1.31E-3
GWP-luluc	kg CO2 eq	3.50E-5	1.50E-8	1.49E-7	3.52E-5	2.79E-8	6.15E-7	9.02E-10	-2.47E-5	1.11E-5
ODP	kg CFC11 eq	1.54E-9	9.74E-12	8.26E-12	1.55E-9	1.82E-11	1.28E-10	9.50E-13	-1.78E-9	-7.77E-11
AP	mol H+ eq	1.16E-4	2.41E-7	1.47E-6	1.17E-4	4.50E-7	5.54E-6	2.39E-8	-5.02E-5	7.32E-5
EP-fw	kg P eq	8.07E-7	3.48E-10	8.24E-9	8.15E-7	6.50E-10	1.87E-8	3.75E-11	-4.00E-7	4.35E-7
EP-m	kg N eq	2.37E-5	8.62E-8	1.55E-7	2.39E-5	1.61E-7	1.94E-6	1.36E-8	-1.25E-5	1.36E-5
EP-T	mol N eq	2.68E-4	9.50E-7	1.85E-6	2.71E-4	1.77E-6	2.15E-5	9.39E-8	-1.44E-4	1.50E-4
POCP	kg NMVOC eq	1.07E-4	2.71E-7	6.28E-7	1.08E-4	5.07E-7	6.28E-6	3.59E-8	-5.36E-5	6.11E-5
ADP-mm	kg Sb eq	5.44E-7	1.09E-9	1.97E-8	5.65E-7	2.04E-9	1.77E-8	2.62E-11	-1.26E-7	4.59E-7
ADP-f	MJ	5.41E-1	6.49E-4	1.36E-3	5.43E-1	1.21E-3	1.29E-2	7.03E-5	-2.77E-1	2.80E-1
WDP	m3 depriv.	1.53E-2	1.99E-6	5.22E-5	1.53E-2	3.72E-6	1.96E-4	1.28E-6	-6.89E-3	8.65E-3
PM	disease inc.	1.40E-9	3.82E-12	9.08E-12	1.41E-9	7.13E-12	7.80E-11	4.84E-13	-7.90E-10	7.06E-10
IR	kBq U-235 eq	8.03E-4	2.84E-6	1.02E-6	8.07E-4	5.30E-6	4.54E-5	3.10E-7	-4.33E-4	4.25E-4
ETP-fw	CTUe	4.86E-1	5.27E-4	1.21E-2	4.98E-1	9.84E-4	1.59E-2	6.07E-5	-2.40E-1	2.75E-1
HTP-c	CTUh	2.19E-11	1.88E-14	6.17E-13	2.26E-11	3.50E-14	3.23E-12	2.42E-15	-1.40E-11	1.19E-11
HTP-nc	CTUh	3.04E-10	6.28E-13	1.57E-11	3.21E-10	1.17E-12	2.84E-11	4.31E-14	-1.60E-10	1.90E-10
SQP	Pt	2.88E+0	5.55E-4	2.24E-3	2.89E+0	1.04E-3	9.98E-3	1.76E-4	-2.52E+0	3.73E-1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	4.63E-1	9.31E-6	2.40E-2	4.87E-1	1.74E-5	5.47E-4	2.23E-6	-3.86E-1	1.02E-1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	4.63E-1	9.31E-6	2.40E-2	4.87E-1	1.74E-5	5.47E-4	2.23E-6	-3.86E-1	1.02E-1
PENRE	MJ	5.79E-1	6.89E-4	1.44E-3	5.81E-1	1.29E-3	1.37E-2	7.47E-5	-3.00E-1	2.96E-1
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	5.79E-1	6.89E-4	1.44E-3	5.81E-1	1.29E-3	1.37E-2	7.47E-5	-3.00E-1	2.96E-1
PET	MJ	1.04E+0	6.98E-4	2.55E-2	1.07E+0	1.30E-3	1.42E-2	7.69E-5	-6.86E-1	3.98E-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	3.32E-4	7.34E-8	1.46E-6	3.33E-4	1.37E-7	7.78E-6	8.23E-8	-1.32E-4	2.10E-4

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	3.75E-7	1.66E-9	2.73E-13	3.76E-7	3.10E-9	2.63E-8	9.27E-11	-3.33E-7	7.28E-8
NHWD	kg	3.07E-3	4.02E-5	1.05E-6	3.11E-3	7.51E-5	9.78E-4	3.00E-4	-1.57E-3	2.89E-3
RWD	kg	7.92E-7	4.41E-9	1.10E-13	7.97E-7	8.24E-9	6.07E-8	4.46E-10	-4.59E-7	4.07E-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