

Environmental Profile

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

Ecochain v3.5.80



Product: 3060242 - PP Insp Chamber Strgt BK 315x100x160 V2
 Unit: 1 Piece
 Manufacturer: Wavin - FR - Varennes

LCA standard: EN15804+A2 (2019)
 Standard database: Worldwide - Ecoinvent v 3.6 Cut-Off
 Externally verified: Yes
 Issue date: 24-11-2022
 End of validity: 24-11-2027
 Verifier: Martijn van Hövell - SGS Search



Inspection chambers and manholes for simplified control operations that will guarantee the longevity of all your networks.

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 - FR - Varennes (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	☑	☑	☑	☑									

Product stage

A1 Raw material supply A2 Transport A3 Manufacturing

Construction process stage

A4 Transport gate to site
 A5 Assembly / Construction installation process

Use stage

B1 Use B2 Maintenance B3 Repair B4 Replacement B5 Refurbishment
 B6 Operational energy use B7 Operational water use

End-of-Life stage

C1 De-construction demolition C2 Transport C3 Waste processing
 C4 Disposal

Benefits and loads beyond the system boundaries

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 - FR - Varennes. These materials may be printed or (photo) copied or otherwise used only with the written consent of Wavin - FR - Varennes.

Results

Environmental impact	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
GWP-total	kg CO2 eq	4.12E-1	2.00E-1	2.30E-1	8.42E-1	1.54E-1	4.99E+0	3.68E-2	-6.89E-1	5.34E+0
GWP-f	kg CO2 eq	2.47E+0	2.00E-1	1.83E-1	2.85E+0	1.54E-1	2.79E+0	3.67E-2	-6.91E-1	5.14E+0
GWP-b	kg CO2 eq	-2.06E+0	1.21E-4	4.75E-2	-2.01E+0	9.33E-5	2.20E+0	6.27E-5	2.71E-3	1.90E-1
GWP-luluc	kg CO2 eq	3.26E-3	7.07E-5	1.59E-4	3.49E-3	5.44E-5	3.86E-4	1.23E-6	-7.06E-4	3.23E-3
ODP	kg CFC11 eq	2.96E-7	4.61E-8	2.37E-8	3.65E-7	3.54E-8	5.56E-8	1.86E-9	-1.45E-7	3.13E-7
AP	mol H+ eq	1.30E-2	1.14E-3	9.74E-4	1.51E-2	8.75E-4	2.37E-3	4.40E-5	-4.49E-4	1.79E-2
EP-fw	kg P eq	1.11E-4	1.64E-6	4.33E-6	1.17E-4	1.26E-6	1.13E-5	5.66E-8	-4.46E-6	1.25E-4
EP-m	kg N eq	2.37E-3	4.07E-4	2.89E-4	3.07E-3	3.13E-4	7.18E-4	2.47E-5	-3.79E-4	3.75E-3
EP-T	mol N eq	2.72E-2	4.49E-3	3.41E-3	3.51E-2	3.45E-3	7.93E-3	1.79E-4	-4.92E-3	4.18E-2
POCP	kg NMVOC eq	1.01E-2	1.28E-3	8.57E-4	1.22E-2	9.86E-4	2.44E-3	5.87E-5	-9.35E-4	1.48E-2
ADP-mm	kg Sb eq	3.37E-4	5.17E-6	3.22E-6	3.46E-4	3.97E-6	8.67E-6	4.43E-8	-8.70E-6	3.50E-4
ADP-f	MJ	6.27E+1	3.07E+0	2.56E+0	6.83E+1	2.36E+0	6.98E+0	1.35E-1	1.37E-1	7.79E+1
WDP	m3 depriv.	1.23E+0	9.41E-3	5.26E+0	6.49E+0	7.24E-3	1.33E-1	6.37E-4	2.98E-1	6.93E+0
PM	disease inc.	1.85E-7	1.80E-8	1.44E-8	2.17E-7	1.39E-8	3.79E-8	9.31E-10	-1.80E-8	2.52E-7
IR	kBq U-235 eq	1.87E-1	1.34E-2	7.44E-3	2.08E-1	1.03E-2	2.14E-2	6.23E-4	-7.80E-3	2.32E-1
ETP-fw	CTUe	5.03E+1	2.49E+0	2.27E+0	5.50E+1	1.91E+0	8.98E+0	1.04E-1	-7.93E+0	5.81E+1
HTP-c	CTUh	2.02E-9	8.86E-11	1.82E-10	2.29E-9	6.81E-11	9.87E-10	3.21E-12	-5.39E-10	2.80E-9
HTP-nc	CTUh	3.29E-8	2.97E-9	4.61E-9	4.04E-8	2.28E-9	1.21E-8	6.51E-11	-3.73E-9	5.12E-8
SQP	Pt	2.01E+2	2.62E+0	1.02E+1	2.14E+2	2.02E+0	5.68E+0	3.48E-1	-1.16E+2	1.06E+2
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	3.10E+1	4.40E-2	2.60E+0	3.37E+1	3.38E-2	3.33E-1	5.07E-3	-1.79E+1	1.62E+1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	3.10E+1	4.40E-2	2.60E+0	3.37E+1	3.38E-2	3.33E-1	5.07E-3	-1.79E+1	1.62E+1
PENRE	MJ	6.69E+1	3.26E+0	2.77E+0	7.29E+1	2.50E+0	7.44E+0	1.43E-1	-4.66E-1	8.25E+1
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	6.69E+1	3.26E+0	2.77E+0	7.29E+1	2.50E+0	7.44E+0	1.43E-1	-4.66E-1	8.25E+1
PET	MJ	9.79E+1	3.30E+0	5.37E+0	1.07E+2	2.54E+0	7.77E+0	1.49E-1	-1.83E+1	9.87E+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	3.76E-2	3.47E-4	1.23E-1	1.61E-1	2.67E-4	4.76E-3	1.67E-4	8.83E-4	1.67E-1

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	4.43E-5	7.85E-6	3.85E-6	5.60E-5	6.03E-6	1.20E-5	1.63E-7	-2.89E-5	4.54E-5
NHWD	kg	3.54E-1	1.90E-1	2.82E-2	5.72E-1	1.46E-1	3.70E-1	5.97E-1	-5.40E-2	1.63E+0
RWD	kg	1.96E-4	2.09E-5	7.79E-6	2.25E-4	1.60E-5	2.75E-5	8.82E-7	-1.37E-5	2.55E-4
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