

Environmental Profile

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

Ecochain v3.5.80



Product: 3060244 - PP Insp Chamber Straight BK 315x160 V2
Unit: 1 Piece
Manufacturer: Wavin - FR - Varennes

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

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



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	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]

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Results

Environmental impact	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
GWP-total	kg CO2 eq	5.88E-1	2.13E-1	2.45E-1	1.05E+0	1.58E-1	5.18E+0	3.90E-2	-7.40E-1	5.69E+0
GWP-f	kg CO2 eq	2.64E+0	2.13E-1	1.94E-1	3.04E+0	1.58E-1	2.98E+0	3.89E-2	-7.42E-1	5.48E+0
GWP-b	kg CO2 eq	-2.05E+0	1.29E-4	5.04E-2	-2.00E+0	9.59E-5	2.20E+0	6.46E-5	2.84E-3	2.01E-1
GWP-luluc	kg CO2 eq	3.40E-3	7.53E-5	1.69E-4	3.64E-3	5.59E-5	4.09E-4	1.27E-6	-7.03E-4	3.41E-3
ODP	kg CFC11 eq	3.17E-7	4.91E-8	2.52E-8	3.91E-7	3.64E-8	5.87E-8	1.91E-9	-1.52E-7	3.36E-7
AP	mol H+ eq	1.38E-2	1.21E-3	1.03E-3	1.60E-2	9.00E-4	2.50E-3	4.53E-5	-4.31E-4	1.90E-2
EP-fw	kg P eq	1.17E-4	1.75E-6	4.60E-6	1.24E-4	1.30E-6	1.20E-5	5.84E-8	-4.25E-6	1.33E-4
EP-m	kg N eq	2.50E-3	4.34E-4	3.07E-4	3.24E-3	3.22E-4	7.59E-4	2.59E-5	-3.84E-4	3.97E-3
EP-T	mol N eq	2.87E-2	4.78E-3	3.61E-3	3.71E-2	3.55E-3	8.37E-3	1.85E-4	-4.98E-3	4.42E-2
POCP	kg NMVOC eq	1.07E-2	1.37E-3	9.08E-4	1.29E-2	1.01E-3	2.58E-3	6.07E-5	-9.36E-4	1.57E-2
ADP-mm	kg Sb eq	3.69E-4	5.51E-6	3.40E-6	3.78E-4	4.09E-6	9.17E-6	4.57E-8	-9.46E-6	3.82E-4
ADP-f	MJ	6.76E+1	3.27E+0	2.72E+0	7.35E+1	2.43E+0	7.39E+0	1.39E-1	-3.17E-1	8.32E+1
WDP	m3 depriv.	1.32E+0	1.00E-2	5.59E+0	6.92E+0	7.44E-3	1.42E-1	6.53E-4	3.12E-1	7.38E+0
PM	disease inc.	1.94E-7	1.92E-8	1.52E-8	2.28E-7	1.43E-8	4.00E-8	9.59E-10	-1.76E-8	2.66E-7
IR	kBq U-235 eq	1.99E-1	1.43E-2	7.91E-3	2.21E-1	1.06E-2	2.27E-2	6.42E-4	-7.89E-3	2.47E-1
ETP-fw	CTUe	5.32E+1	2.65E+0	2.41E+0	5.83E+1	1.97E+0	9.54E+0	1.08E-1	-7.93E+0	6.20E+1
HTP-c	CTUh	2.09E-9	9.44E-11	1.93E-10	2.38E-9	7.01E-11	1.04E-9	3.31E-12	-5.40E-10	2.95E-9
HTP-nc	CTUh	3.47E-8	3.16E-9	4.88E-9	4.28E-8	2.35E-9	1.28E-8	6.75E-11	-3.66E-9	5.43E-8
SQP	Pt	2.02E+2	2.80E+0	1.07E+1	2.16E+2	2.07E+0	6.00E+0	3.58E-1	-1.16E+2	1.08E+2
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	3.13E+1	4.69E-2	2.74E+0	3.40E+1	3.48E-2	3.53E-1	5.24E-3	-1.78E+1	1.66E+1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	3.13E+1	4.69E-2	2.74E+0	3.40E+1	3.48E-2	3.53E-1	5.24E-3	-1.78E+1	1.66E+1
PENRE	MJ	7.20E+1	3.47E+0	2.94E+0	7.85E+1	2.57E+0	7.87E+0	1.48E-1	-9.96E-1	8.80E+1
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	7.20E+1	3.47E+0	2.94E+0	7.85E+1	2.57E+0	7.87E+0	1.48E-1	-9.96E-1	8.80E+1
PET	MJ	1.03E+2	3.52E+0	5.68E+0	1.12E+2	2.61E+0	8.23E+0	1.53E-1	-1.88E+1	1.05E+2
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	3.99E-2	3.70E-4	1.31E-1	1.71E-1	2.74E-4	5.09E-3	1.72E-4	1.03E-3	1.78E-1

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	4.65E-5	8.36E-6	4.09E-6	5.90E-5	6.20E-6	1.27E-5	1.68E-7	-3.03E-5	4.78E-5
NHWD	kg	3.70E-1	2.03E-1	3.00E-2	6.03E-1	1.50E-1	3.91E-1	6.15E-1	-5.38E-2	1.71E+0
RWD	kg	2.10E-4	2.22E-5	8.28E-6	2.40E-4	1.65E-5	2.91E-5	9.08E-7	-1.41E-5	2.73E-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