

Environmental Profile

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

Ecochain v3.5.80



Product: 3026924 - PP Insp Chamber Straight BR 315x125
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	3.53E+0	3.22E-1	2.23E-1	4.08E+0	1.52E-1	4.98E+0	3.56E-2	-3.10E+0	6.14E+0
GWP-f	kg CO2 eq	5.70E+0	3.22E-1	1.77E-1	6.20E+0	1.51E-1	2.78E+0	3.56E-2	-3.09E+0	6.08E+0
GWP-b	kg CO2 eq	-2.17E+0	1.96E-4	4.57E-2	-2.12E+0	9.19E-5	2.20E+0	6.16E-5	-8.31E-3	6.54E-2
GWP-luluc	kg CO2 eq	3.34E-3	1.14E-4	1.51E-4	3.60E-3	5.36E-5	3.76E-4	1.22E-6	-1.31E-3	2.72E-3
ODP	kg CFC11 eq	3.44E-7	7.42E-8	2.30E-8	4.41E-7	3.49E-8	5.48E-8	1.83E-9	-2.02E-7	3.31E-7
AP	mol H+ eq	2.41E-2	1.83E-3	9.28E-4	2.68E-2	8.62E-4	2.37E-3	4.34E-5	-8.80E-3	2.13E-2
EP-fw	kg P eq	1.30E-4	2.65E-6	4.20E-6	1.37E-4	1.25E-6	1.10E-5	5.61E-8	-3.94E-5	1.10E-4
EP-m	kg N eq	4.33E-3	6.56E-4	2.77E-4	5.26E-3	3.09E-4	7.37E-4	2.42E-5	-1.78E-3	4.56E-3
EP-T	mol N eq	4.82E-2	7.23E-3	3.25E-3	5.87E-2	3.40E-3	8.04E-3	1.77E-4	-2.04E-2	5.00E-2
POCP	kg NMVOC eq	2.06E-2	2.07E-3	8.20E-4	2.35E-2	9.72E-4	2.45E-3	5.77E-5	-8.29E-3	1.87E-2
ADP-mm	kg Sb eq	3.63E-4	8.33E-6	3.03E-6	3.74E-4	3.92E-6	8.45E-6	4.38E-8	-2.96E-5	3.57E-4
ADP-f	MJ	1.83E+2	4.94E+0	2.49E+0	1.91E+2	2.32E+0	6.81E+0	1.33E-1	-8.63E+1	1.14E+2
WDP	m3 depriv.	3.80E+0	1.52E-2	5.14E+0	8.95E+0	7.13E-3	1.30E-1	6.58E-4	-1.43E+0	7.66E+0
PM	disease inc.	2.79E-7	2.91E-8	1.37E-8	3.21E-7	1.37E-8	3.72E-8	9.17E-10	-9.04E-8	2.83E-7
IR	kBq U-235 eq	1.87E-1	2.16E-2	7.26E-3	2.16E-1	1.02E-2	2.09E-2	6.13E-4	-5.17E-2	1.95E-1
ETP-fw	CTUe	6.87E+1	4.01E+0	2.16E+0	7.49E+1	1.89E+0	8.98E+0	1.02E-1	-2.01E+1	6.58E+1
HTP-c	CTUh	4.86E-9	1.43E-10	1.75E-10	5.18E-9	6.71E-11	9.92E-10	3.18E-12	-1.10E-9	5.14E-9
HTP-nc	CTUh	7.09E-8	4.78E-9	4.41E-9	8.01E-8	2.25E-9	1.20E-8	6.42E-11	-1.91E-8	7.53E-8
SQP	Pt	2.02E+2	4.23E+0	9.34E+0	2.15E+2	1.99E+0	5.53E+0	3.43E-1	-1.18E+2	1.05E+2
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	3.15E+1	7.09E-2	2.39E+0	3.39E+1	3.33E-2	3.25E-1	4.98E-3	-1.91E+1	1.52E+1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	3.15E+1	7.09E-2	2.39E+0	3.39E+1	3.33E-2	3.25E-1	4.98E-3	-1.91E+1	1.52E+1
PENRE	MJ	1.96E+2	5.25E+0	2.69E+0	2.04E+2	2.47E+0	7.26E+0	1.41E-1	-9.32E+1	1.21E+2
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	1.96E+2	5.25E+0	2.69E+0	2.04E+2	2.47E+0	7.26E+0	1.41E-1	-9.32E+1	1.21E+2
PET	MJ	2.28E+2	5.32E+0	5.08E+0	2.38E+2	2.50E+0	7.58E+0	1.46E-1	-1.12E+2	1.36E+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	7.26E-2	5.59E-4	1.20E-1	1.93E-1	2.63E-4	4.66E-3	1.64E-4	-2.44E-2	1.74E-1

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	5.21E-5	1.26E-5	3.76E-6	6.85E-5	5.94E-6	1.18E-5	1.61E-7	-3.73E-5	4.91E-5
NHWD	kg	4.03E-1	3.06E-1	2.76E-2	7.37E-1	1.44E-1	3.64E-1	5.89E-1	-1.28E-1	1.71E+0
RWD	kg	1.98E-4	3.36E-5	7.61E-6	2.39E-4	1.58E-5	2.69E-5	8.68E-7	-5.15E-5	2.31E-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