

Environmental Profile

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

Ecochain v3.5.80



Product: 3060239 - PP Insp Chamber Strgt BK 250x100x160 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	2.45E-1	1.45E-1	1.79E-1	5.70E-1	1.09E-1	3.39E+0	2.66E-2	-3.97E-1	3.69E+0
GWP-f	kg CO2 eq	1.60E+0	1.45E-1	1.41E-1	1.89E+0	1.09E-1	1.92E+0	2.65E-2	-3.99E-1	3.54E+0
GWP-b	kg CO2 eq	-1.36E+0	8.81E-5	3.84E-2	-1.32E+0	6.60E-5	1.47E+0	4.42E-5	2.11E-3	1.49E-1
GWP-luluc	kg CO2 eq	2.20E-3	5.13E-5	1.40E-4	2.39E-3	3.85E-5	2.85E-4	8.67E-7	-4.50E-4	2.27E-3
ODP	kg CFC11 eq	1.80E-7	3.34E-8	1.84E-8	2.32E-7	2.51E-8	4.06E-8	1.31E-9	-9.80E-8	2.00E-7
AP	mol H+ eq	8.40E-3	8.26E-4	8.19E-4	1.00E-2	6.20E-4	1.72E-3	3.10E-5	-2.36E-5	1.24E-2
EP-fw	kg P eq	7.55E-5	1.19E-6	3.37E-6	8.01E-5	8.95E-7	8.32E-6	3.99E-8	-1.81E-6	8.75E-5
EP-m	kg N eq	1.54E-3	2.96E-4	2.38E-4	2.08E-3	2.22E-4	5.19E-4	1.71E-5	-2.10E-4	2.63E-3
EP-T	mol N eq	1.77E-2	3.26E-3	2.90E-3	2.39E-2	2.44E-3	5.73E-3	1.26E-4	-2.80E-3	2.94E-2
POCP	kg NMVOC eq	6.40E-3	9.31E-4	7.06E-4	8.04E-3	6.98E-4	1.77E-3	4.15E-5	-3.84E-4	1.02E-2
ADP-mm	kg Sb eq	1.92E-4	3.75E-6	2.88E-6	1.99E-4	2.81E-6	6.38E-6	3.12E-8	-3.98E-6	2.04E-4
ADP-f	MJ	3.99E+1	2.23E+0	1.96E+0	4.41E+1	1.67E+0	5.13E+0	9.52E-2	2.74E+0	5.37E+1
WDP	m3 depriv.	7.66E-1	6.83E-3	3.91E+0	4.68E+0	5.12E-3	9.73E-2	4.49E-4	2.55E-1	5.04E+0
PM	disease inc.	1.20E-7	1.31E-8	1.19E-8	1.45E-7	9.82E-9	2.78E-8	6.56E-10	-9.47E-9	1.73E-7
IR	kBq U-235 eq	1.24E-1	9.73E-3	5.58E-3	1.39E-1	7.30E-3	1.57E-2	4.39E-4	-3.64E-3	1.59E-1
ETP-fw	CTUe	3.32E+1	1.81E+0	1.92E+0	3.69E+1	1.36E+0	6.39E+0	7.22E-2	-4.90E+0	3.99E+1
HTP-c	CTUh	1.34E-9	6.43E-11	1.45E-10	1.55E-9	4.82E-11	7.23E-10	2.26E-12	-3.44E-10	1.98E-9
HTP-nc	CTUh	2.16E-8	2.16E-9	3.81E-9	2.76E-8	1.62E-9	8.83E-9	4.57E-11	-2.02E-9	3.60E-8
SQP	Pt	1.34E+2	1.90E+0	1.01E+1	1.46E+2	1.43E+0	4.18E+0	2.45E-1	-7.70E+1	7.49E+1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	2.08E+1	3.19E-2	2.58E+0	2.34E+1	2.40E-2	2.46E-1	3.57E-3	-1.19E+1	1.18E+1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	2.08E+1	3.19E-2	2.58E+0	2.34E+1	2.40E-2	2.46E-1	3.57E-3	-1.19E+1	1.18E+1
PENRE	MJ	4.26E+1	2.36E+0	2.12E+0	4.70E+1	1.77E+0	5.47E+0	1.01E-1	2.51E+0	5.69E+1
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	4.26E+1	2.36E+0	2.12E+0	4.70E+1	1.77E+0	5.47E+0	1.01E-1	2.51E+0	5.69E+1
PET	MJ	6.33E+1	2.40E+0	4.70E+0	7.04E+1	1.80E+0	5.72E+0	1.05E-1	-9.35E+0	6.87E+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	2.43E-2	2.52E-4	9.16E-2	1.16E-1	1.89E-4	3.34E-3	1.17E-4	1.40E-3	1.21E-1

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	2.91E-5	5.69E-6	2.86E-6	3.77E-5	4.27E-6	8.75E-6	1.15E-7	-1.94E-5	3.14E-5
NHWD	kg	2.39E-1	1.38E-1	2.10E-2	3.98E-1	1.03E-1	2.69E-1	4.21E-1	-3.36E-2	1.16E+0
RWD	kg	1.26E-4	1.51E-5	5.79E-6	1.47E-4	1.14E-5	2.02E-5	6.21E-7	-7.73E-6	1.71E-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



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