

Environmental Profile

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

Ecochain v3.5.80



Product: 3060198 - PP Insp Chamber Strgt BK 250x100x125 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	1.40E-1	1.39E-1	1.68E-1	4.46E-1	1.07E-1	3.29E+0	2.56E-2	-3.59E-1	3.51E+0
GWP-f	kg CO2 eq	1.50E+0	1.39E-1	1.32E-1	1.77E+0	1.07E-1	1.82E+0	2.55E-2	-3.60E-1	3.36E+0
GWP-b	kg CO2 eq	-1.36E+0	8.44E-5	3.56E-2	-1.32E+0	6.49E-5	1.47E+0	4.32E-5	2.09E-3	1.44E-1
GWP-luluc	kg CO2 eq	2.13E-3	4.92E-5	1.28E-4	2.30E-3	3.78E-5	2.75E-4	8.49E-7	-4.48E-4	2.17E-3
ODP	kg CFC11 eq	1.66E-7	3.20E-8	1.72E-8	2.15E-7	2.46E-8	3.92E-8	1.28E-9	-9.37E-8	1.86E-7
AP	mol H+ eq	7.90E-3	7.92E-4	7.54E-4	9.44E-3	6.09E-4	1.66E-3	3.03E-5	1.06E-5	1.18E-2
EP-fw	kg P eq	7.21E-5	1.14E-6	3.15E-6	7.64E-5	8.79E-7	8.04E-6	3.91E-8	-1.71E-6	8.36E-5
EP-m	kg N eq	1.46E-3	2.83E-4	2.20E-4	1.97E-3	2.18E-4	5.01E-4	1.65E-5	-2.00E-4	2.50E-3
EP-T	mol N eq	1.68E-2	3.12E-3	2.66E-3	2.26E-2	2.40E-3	5.53E-3	1.24E-4	-2.69E-3	2.79E-2
POCP	kg NMVOC eq	6.02E-3	8.93E-4	6.52E-4	7.56E-3	6.86E-4	1.71E-3	4.06E-5	-3.46E-4	9.65E-3
ADP-mm	kg Sb eq	1.71E-4	3.60E-6	2.63E-6	1.78E-4	2.76E-6	6.16E-6	3.06E-8	-3.33E-6	1.83E-4
ADP-f	MJ	3.69E+1	2.13E+0	1.84E+0	4.08E+1	1.64E+0	4.96E+0	9.34E-2	3.39E+0	5.09E+1
WDP	m3 depriv.	7.04E-1	6.55E-3	3.69E+0	4.40E+0	5.03E-3	9.34E-2	4.41E-4	2.57E-1	4.75E+0
PM	disease inc.	1.14E-7	1.25E-8	1.10E-8	1.38E-7	9.64E-9	2.69E-8	6.43E-10	-9.29E-9	1.66E-7
IR	kBq U-235 eq	1.17E-1	9.33E-3	5.25E-3	1.32E-1	7.17E-3	1.52E-2	4.30E-4	-3.31E-3	1.51E-1
ETP-fw	CTUe	3.15E+1	1.73E+0	1.77E+0	3.50E+1	1.33E+0	6.12E+0	7.01E-2	-4.82E+0	3.77E+1
HTP-c	CTUh	1.29E-9	6.17E-11	1.35E-10	1.49E-9	4.74E-11	7.01E-10	2.21E-12	-3.41E-10	1.90E-9
HTP-nc	CTUh	2.05E-8	2.07E-9	3.52E-9	2.61E-8	1.59E-9	8.51E-9	4.46E-11	-1.97E-9	3.42E-8
SQP	Pt	1.34E+2	1.83E+0	9.06E+0	1.44E+2	1.40E+0	4.04E+0	2.40E-1	-7.70E+1	7.32E+1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	2.06E+1	3.06E-2	2.31E+0	2.30E+1	2.35E-2	2.37E-1	3.49E-3	-1.19E+1	1.14E+1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	2.06E+1	3.06E-2	2.31E+0	2.30E+1	2.35E-2	2.37E-1	3.49E-3	-1.19E+1	1.14E+1
PENRE	MJ	3.93E+1	2.27E+0	1.99E+0	4.36E+1	1.74E+0	5.28E+0	9.91E-2	3.24E+0	5.39E+1
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	3.93E+1	2.27E+0	1.99E+0	4.36E+1	1.74E+0	5.28E+0	9.91E-2	3.24E+0	5.39E+1
PET	MJ	5.99E+1	2.30E+0	4.30E+0	6.65E+1	1.76E+0	5.52E+0	1.03E-1	-8.61E+0	6.53E+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	2.29E-2	2.41E-4	8.63E-2	1.10E-1	1.86E-4	3.18E-3	1.15E-4	1.46E-3	1.14E-1

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	2.78E-5	5.46E-6	2.70E-6	3.60E-5	4.19E-6	8.44E-6	1.12E-7	-1.86E-5	3.01E-5
NHWD	kg	2.29E-1	1.32E-1	1.98E-2	3.81E-1	1.02E-1	2.59E-1	4.13E-1	-3.33E-2	1.12E+0
RWD	kg	1.18E-4	1.45E-5	5.46E-6	1.38E-4	1.12E-5	1.95E-5	6.09E-7	-7.29E-6	1.62E-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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