

Environmental Profile

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

Ecochain v3.5.80



Product: 3060240 - PP Insp Chamber Strgt BK 250x160 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	4.22E-1	1.58E-1	1.91E-1	7.72E-1	1.13E-1	3.58E+0	2.88E-2	-4.50E-1	4.04E+0
GWP-f	kg CO2 eq	1.77E+0	1.58E-1	1.50E-1	2.08E+0	1.13E-1	2.11E+0	2.88E-2	-4.51E-1	3.88E+0
GWP-b	kg CO2 eq	-1.35E+0	9.60E-5	4.09E-2	-1.31E+0	6.87E-5	1.47E+0	4.61E-5	2.23E-3	1.59E-1
GWP-luluc	kg CO2 eq	2.34E-3	5.60E-5	1.48E-4	2.55E-3	4.01E-5	3.08E-4	9.05E-7	-4.48E-4	2.45E-3
ODP	kg CFC11 eq	2.02E-7	3.64E-8	1.97E-8	2.58E-7	2.61E-8	4.37E-8	1.36E-9	-1.05E-7	2.24E-7
AP	mol H+ eq	9.22E-3	9.01E-4	8.71E-4	1.10E-2	6.45E-4	1.86E-3	3.23E-5	-9.68E-6	1.35E-2
EP-fw	kg P eq	8.19E-5	1.30E-6	3.60E-6	8.68E-5	9.31E-7	9.00E-6	4.16E-8	-1.64E-6	9.52E-5
EP-m	kg N eq	1.68E-3	3.22E-4	2.54E-4	2.25E-3	2.31E-4	5.59E-4	1.83E-5	-2.16E-4	2.84E-3
EP-T	mol N eq	1.92E-2	3.55E-3	3.08E-3	2.58E-2	2.54E-3	6.17E-3	1.32E-4	-2.87E-3	3.18E-2
POCP	kg NMVOC eq	7.02E-3	1.02E-3	7.51E-4	8.78E-3	7.27E-4	1.91E-3	4.35E-5	-3.87E-4	1.11E-2
ADP-mm	kg Sb eq	2.24E-4	4.09E-6	3.05E-6	2.31E-4	2.93E-6	6.88E-6	3.26E-8	-4.76E-6	2.36E-4
ADP-f	MJ	4.48E+1	2.43E+0	2.10E+0	4.94E+1	1.74E+0	5.54E+0	9.93E-2	2.26E+0	5.90E+1
WDP	m3 depriv.	8.60E-1	7.45E-3	4.19E+0	5.06E+0	5.33E-3	1.06E-1	4.67E-4	2.67E-1	5.43E+0
PM	disease inc.	1.29E-7	1.43E-8	1.26E-8	1.56E-7	1.02E-8	2.99E-8	6.84E-10	-9.11E-9	1.87E-7
IR	kBq U-235 eq	1.36E-1	1.06E-2	5.97E-3	1.53E-1	7.59E-3	1.70E-2	4.58E-4	-3.78E-3	1.74E-1
ETP-fw	CTUe	3.61E+1	1.97E+0	2.04E+0	4.02E+1	1.41E+0	6.96E+0	7.64E-2	-4.92E+0	4.37E+1
HTP-c	CTUh	1.41E-9	7.01E-11	1.55E-10	1.64E-9	5.02E-11	7.77E-10	2.36E-12	-3.45E-10	2.12E-9
HTP-nc	CTUh	2.34E-8	2.35E-9	4.05E-9	2.98E-8	1.68E-9	9.54E-9	4.81E-11	-1.97E-9	3.91E-8
SQP	Pt	1.35E+2	2.08E+0	1.07E+1	1.48E+2	1.49E+0	4.50E+0	2.56E-1	-7.70E+1	7.68E+1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	2.10E+1	3.48E-2	2.71E+0	2.37E+1	2.49E-2	2.66E-1	3.74E-3	-1.19E+1	1.22E+1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	2.10E+1	3.48E-2	2.71E+0	2.37E+1	2.49E-2	2.66E-1	3.74E-3	-1.19E+1	1.22E+1
PENRE	MJ	4.78E+1	2.58E+0	2.27E+0	5.26E+1	1.84E+0	5.90E+0	1.05E-1	1.96E+0	6.24E+1
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	4.78E+1	2.58E+0	2.27E+0	5.26E+1	1.84E+0	5.90E+0	1.05E-1	1.96E+0	6.24E+1
PET	MJ	6.88E+1	2.61E+0	4.98E+0	7.64E+1	1.87E+0	6.17E+0	1.09E-1	-9.90E+0	7.46E+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	2.66E-2	2.75E-4	9.81E-2	1.25E-1	1.97E-4	3.66E-3	1.22E-4	1.53E-3	1.31E-1

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	3.13E-5	6.21E-6	3.06E-6	4.06E-5	4.44E-6	9.45E-6	1.20E-7	-2.08E-5	3.37E-5
NHWD	kg	2.55E-1	1.50E-1	2.25E-2	4.28E-1	1.08E-1	2.90E-1	4.39E-1	-3.35E-2	1.23E+0
RWD	kg	1.40E-4	1.65E-5	6.20E-6	1.63E-4	1.18E-5	2.17E-5	6.48E-7	-8.14E-6	1.89E-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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