

Environmental Profile

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

Ecochain v3.5.80



Product: 3060243 - PP Insp Chamber Straight BK 315x125 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	3.44E-1	1.94E-1	2.29E-1	7.67E-1	1.52E-1	4.91E+0	3.57E-2	-6.75E-1	5.19E+0
GWP-f	kg CO2 eq	2.40E+0	1.94E-1	1.82E-1	2.78E+0	1.51E-1	2.71E+0	3.56E-2	-6.77E-1	5.00E+0
GWP-b	kg CO2 eq	-2.06E+0	1.18E-4	4.65E-2	-2.02E+0	9.19E-5	2.20E+0	6.17E-5	2.63E-3	1.85E-1
GWP-luluc	kg CO2 eq	3.20E-3	6.86E-5	1.51E-4	3.42E-3	5.36E-5	3.74E-4	1.21E-6	-7.07E-4	3.14E-3
ODP	kg CFC11 eq	2.87E-7	4.47E-8	2.35E-8	3.55E-7	3.49E-8	5.40E-8	1.83E-9	-1.40E-7	3.06E-7
AP	mol H+ eq	1.26E-2	1.10E-3	9.39E-4	1.47E-2	8.62E-4	2.30E-3	4.33E-5	-4.84E-4	1.74E-2
EP-fw	kg P eq	1.08E-4	1.60E-6	4.30E-6	1.14E-4	1.25E-6	1.09E-5	5.58E-8	-4.57E-6	1.22E-4
EP-m	kg N eq	2.32E-3	3.95E-4	2.81E-4	3.00E-3	3.09E-4	6.98E-4	2.42E-5	-3.81E-4	3.65E-3
EP-T	mol N eq	2.67E-2	4.36E-3	3.28E-3	3.43E-2	3.40E-3	7.70E-3	1.77E-4	-4.95E-3	4.06E-2
POCP	kg NMVOC eq	9.84E-3	1.25E-3	8.33E-4	1.19E-2	9.72E-4	2.37E-3	5.77E-5	-9.63E-4	1.44E-2
ADP-mm	kg Sb eq	3.27E-4	5.02E-6	3.03E-6	3.35E-4	3.92E-6	8.40E-6	4.37E-8	-8.49E-6	3.39E-4
ADP-f	MJ	6.10E+1	2.98E+0	2.55E+0	6.65E+1	2.32E+0	6.77E+0	1.33E-1	-1.17E-2	7.58E+1
WDP	m3 depriv.	1.19E+0	9.14E-3	5.30E+0	6.50E+0	7.13E-3	1.29E-1	6.24E-4	2.89E-1	6.92E+0
PM	disease inc.	1.81E-7	1.75E-8	1.40E-8	2.13E-7	1.37E-8	3.68E-8	9.17E-10	-1.84E-8	2.46E-7
IR	kBq U-235 eq	1.82E-1	1.30E-2	7.48E-3	2.02E-1	1.02E-2	2.08E-2	6.14E-4	-7.81E-3	2.26E-1
ETP-fw	CTUe	4.90E+1	2.42E+0	2.19E+0	5.36E+1	1.89E+0	8.71E+0	1.02E-1	-7.92E+0	5.64E+1
HTP-c	CTUh	1.98E-9	8.60E-11	1.79E-10	2.25E-9	6.71E-11	9.57E-10	3.16E-12	-5.39E-10	2.73E-9
HTP-nc	CTUh	3.21E-8	2.88E-9	4.47E-9	3.95E-8	2.25E-9	1.17E-8	6.40E-11	-3.76E-9	4.98E-8
SQP	Pt	2.01E+2	2.55E+0	9.16E+0	2.13E+2	1.99E+0	5.52E+0	3.43E-1	-1.16E+2	1.05E+2
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	3.09E+1	4.27E-2	2.34E+0	3.33E+1	3.33E-2	3.23E-1	5.00E-3	-1.79E+1	1.58E+1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	3.09E+1	4.27E-2	2.34E+0	3.33E+1	3.33E-2	3.23E-1	5.00E-3	-1.79E+1	1.58E+1
PENRE	MJ	6.51E+1	3.16E+0	2.76E+0	7.10E+1	2.47E+0	7.22E+0	1.41E-1	-6.06E-1	8.02E+1
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	6.51E+1	3.16E+0	2.76E+0	7.10E+1	2.47E+0	7.22E+0	1.41E-1	-6.06E-1	8.02E+1
PET	MJ	9.60E+1	3.20E+0	5.10E+0	1.04E+2	2.50E+0	7.54E+0	1.46E-1	-1.85E+1	9.60E+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	3.67E-2	3.37E-4	1.24E-1	1.61E-1	2.63E-4	4.61E-3	1.64E-4	7.54E-4	1.67E-1

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	4.36E-5	7.61E-6	3.88E-6	5.51E-5	5.94E-6	1.17E-5	1.60E-7	-2.83E-5	4.46E-5
NHWD	kg	3.48E-1	1.85E-1	2.84E-2	5.61E-1	1.44E-1	3.59E-1	5.89E-1	-5.41E-2	1.60E+0
RWD	kg	1.90E-4	2.02E-5	7.85E-6	2.19E-4	1.58E-5	2.67E-5	8.68E-7	-1.36E-5	2.48E-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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