

Environmental Profile

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

Ecochain v3.5.80



Product: 3060245 - PP Insp Chamber Straight BK 315x200 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	1.02E+0	2.45E-1	2.90E-1	1.56E+0	1.69E-1	5.64E+0	4.44E-2	-8.68E-1	6.55E+0
GWP-f	kg CO2 eq	3.05E+0	2.45E-1	2.30E-1	3.53E+0	1.69E-1	3.44E+0	4.44E-2	-8.70E-1	6.31E+0
GWP-b	kg CO2 eq	-2.03E+0	1.49E-4	5.95E-2	-1.97E+0	1.03E-4	2.20E+0	6.95E-5	3.10E-3	2.29E-1
GWP-luluc	kg CO2 eq	3.74E-3	8.66E-5	1.97E-4	4.02E-3	5.98E-5	4.66E-4	1.36E-6	-7.02E-4	3.85E-3
ODP	kg CFC11 eq	3.69E-7	5.64E-8	2.98E-8	4.55E-7	3.89E-8	6.64E-8	2.05E-9	-1.72E-7	3.90E-7
AP	mol H+ eq	1.58E-2	1.39E-3	1.21E-3	1.84E-2	9.62E-4	2.84E-3	4.86E-5	-4.12E-4	2.19E-2
EP-fw	kg P eq	1.33E-4	2.01E-6	5.45E-6	1.40E-4	1.39E-6	1.36E-5	6.27E-8	-4.03E-6	1.52E-4
EP-m	kg N eq	2.83E-3	4.99E-4	3.61E-4	3.69E-3	3.44E-4	8.58E-4	2.86E-5	-4.00E-4	4.52E-3
EP-T	mol N eq	3.24E-2	5.50E-3	4.24E-3	4.22E-2	3.79E-3	9.46E-3	1.98E-4	-5.15E-3	5.05E-2
POCP	kg NMVOC eq	1.22E-2	1.57E-3	1.07E-3	1.48E-2	1.08E-3	2.92E-3	6.57E-5	-9.51E-4	1.79E-2
ADP-mm	kg Sb eq	4.43E-4	6.33E-6	3.97E-6	4.54E-4	4.37E-6	1.04E-5	4.90E-8	-1.13E-5	4.57E-4
ADP-f	MJ	7.94E+1	3.76E+0	3.23E+0	8.64E+1	2.59E+0	8.40E+0	1.49E-1	-1.52E+0	9.60E+1
WDP	m3 depriv.	1.55E+0	1.15E-2	6.65E+0	8.21E+0	7.95E-3	1.63E-1	7.02E-4	3.35E-1	8.72E+0
PM	disease inc.	2.16E-7	2.21E-8	1.79E-8	2.56E-7	1.52E-8	4.53E-8	1.03E-9	-1.68E-8	3.00E-7
IR	kBq U-235 eq	2.29E-1	1.64E-2	9.40E-3	2.55E-1	1.13E-2	2.57E-2	6.89E-4	-8.44E-3	2.84E-1
ETP-fw	CTUe	6.05E+1	3.05E+0	2.82E+0	6.64E+1	2.10E+0	1.09E+1	1.18E-1	-8.06E+0	7.15E+1
HTP-c	CTUh	2.29E-9	1.09E-10	2.28E-10	2.63E-9	7.49E-11	1.17E-9	3.55E-12	-5.45E-10	3.33E-9
HTP-nc	CTUh	3.94E-8	3.64E-9	5.75E-9	4.88E-8	2.51E-9	1.46E-8	7.34E-11	-3.63E-9	6.23E-8
SQP	Pt	2.04E+2	3.22E+0	1.24E+1	2.20E+2	2.22E+0	6.80E+0	3.84E-1	-1.16E+2	1.13E+2
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	3.18E+1	5.39E-2	3.16E+0	3.50E+1	3.72E-2	4.03E-1	5.64E-3	-1.78E+1	1.76E+1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	3.18E+1	5.39E-2	3.16E+0	3.50E+1	3.72E-2	4.03E-1	5.64E-3	-1.78E+1	1.76E+1
PENRE	MJ	8.47E+1	3.99E+0	3.49E+0	9.22E+1	2.75E+0	8.95E+0	1.58E-1	-2.39E+0	1.02E+2
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	8.47E+1	3.99E+0	3.49E+0	9.22E+1	2.75E+0	8.95E+0	1.58E-1	-2.39E+0	1.02E+2
PET	MJ	1.16E+2	4.04E+0	6.65E+0	1.27E+2	2.79E+0	9.35E+0	1.64E-1	-2.02E+1	1.19E+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	4.55E-2	4.25E-4	1.56E-1	2.02E-1	2.93E-4	5.87E-3	1.84E-4	1.28E-3	2.09E-1

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	5.21E-5	9.61E-6	4.87E-6	6.66E-5	6.63E-6	1.45E-5	1.80E-7	-3.38E-5	5.41E-5
NHWD	kg	4.14E-1	2.33E-1	3.57E-2	6.82E-1	1.61E-1	4.43E-1	6.60E-1	-5.40E-2	1.89E+0
RWD	kg	2.42E-4	2.56E-5	9.85E-6	2.78E-4	1.76E-5	3.29E-5	9.74E-7	-1.52E-5	3.14E-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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