

Environmental Profile

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

Ecochain v3.5.80



Product: 3060247 - PP Insp Chamber Straight BK 400x160 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	6.39E-1	2.92E-1	3.31E-1	1.26E+0	2.26E-1	6.91E+0	5.40E-2	-8.58E-1	7.59E+0
GWP-f	kg CO2 eq	3.35E+0	2.92E-1	2.64E-1	3.91E+0	2.26E-1	3.98E+0	5.39E-2	-8.61E-1	7.31E+0
GWP-b	kg CO2 eq	-2.72E+0	1.77E-4	6.68E-2	-2.65E+0	1.37E-4	2.93E+0	9.20E-5	4.26E-3	2.85E-1
GWP-luluc	kg CO2 eq	4.51E-3	1.03E-4	2.13E-4	4.83E-3	8.00E-5	5.71E-4	1.80E-6	-9.05E-4	4.58E-3
ODP	kg CFC11 eq	3.93E-7	6.73E-8	3.40E-8	4.94E-7	5.21E-8	8.17E-8	2.72E-9	-2.00E-7	4.30E-7
AP	mol H+ eq	1.76E-2	1.66E-3	1.33E-3	2.06E-2	1.29E-3	3.47E-3	6.45E-5	-1.26E-4	2.53E-2
EP-fw	kg P eq	1.56E-4	2.40E-6	6.22E-6	1.64E-4	1.86E-6	1.67E-5	8.31E-8	-3.79E-6	1.79E-4
EP-m	kg N eq	3.22E-3	5.95E-4	4.02E-4	4.22E-3	4.61E-4	1.05E-3	3.58E-5	-4.39E-4	5.32E-3
EP-T	mol N eq	3.69E-2	6.56E-3	4.65E-3	4.81E-2	5.08E-3	1.16E-2	2.63E-4	-5.82E-3	5.92E-2
POCP	kg NMVOC eq	1.35E-2	1.88E-3	1.19E-3	1.66E-2	1.45E-3	3.57E-3	8.61E-5	-8.52E-4	2.08E-2
ADP-mm	kg Sb eq	4.38E-4	7.56E-6	4.24E-6	4.50E-4	5.85E-6	1.28E-5	6.50E-8	-9.77E-6	4.59E-4
ADP-f	MJ	8.43E+1	4.48E+0	3.70E+0	9.25E+1	3.47E+0	1.03E+1	1.98E-1	4.21E+0	1.11E+2
WDP	m3 depriv.	1.63E+0	1.38E-2	7.73E+0	9.36E+0	1.07E-2	1.96E-1	9.30E-4	5.05E-1	1.01E+1
PM	disease inc.	2.49E-7	2.64E-8	1.99E-8	2.96E-7	2.04E-8	5.59E-8	1.37E-9	-1.96E-8	3.54E-7
IR	kBq U-235 eq	2.60E-1	1.96E-2	1.09E-2	2.91E-1	1.52E-2	3.16E-2	9.14E-4	-7.95E-3	3.31E-1
ETP-fw	CTUe	6.93E+1	3.64E+0	3.10E+0	7.61E+1	2.82E+0	1.30E+1	1.51E-1	-9.92E+0	8.22E+1
HTP-c	CTUh	2.74E-9	1.30E-10	2.57E-10	3.12E-9	1.00E-10	1.45E-9	4.70E-12	-6.94E-10	3.98E-9
HTP-nc	CTUh	4.49E-8	4.34E-9	6.38E-9	5.57E-8	3.36E-9	1.78E-8	9.52E-11	-4.11E-9	7.28E-8
SQP	Pt	2.69E+2	3.84E+0	1.24E+1	2.85E+2	2.97E+0	8.40E+0	5.11E-1	-1.54E+2	1.43E+2
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	4.17E+1	6.43E-2	3.18E+0	4.49E+1	4.98E-2	4.93E-1	7.44E-3	-2.37E+1	2.17E+1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	4.17E+1	6.43E-2	3.18E+0	4.49E+1	4.98E-2	4.93E-1	7.44E-3	-2.37E+1	2.17E+1
PENRE	MJ	8.98E+1	4.76E+0	4.01E+0	9.86E+1	3.69E+0	1.10E+1	2.11E-1	3.64E+0	1.17E+2
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	8.98E+1	4.76E+0	4.01E+0	9.86E+1	3.69E+0	1.10E+1	2.11E-1	3.64E+0	1.17E+2
PET	MJ	1.32E+2	4.82E+0	7.19E+0	1.44E+2	3.73E+0	1.15E+1	2.18E-1	-2.01E+1	1.39E+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	5.14E-2	5.07E-4	1.81E-1	2.33E-1	3.93E-4	6.85E-3	2.45E-4	2.45E-3	2.43E-1

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	6.05E-5	1.15E-5	5.66E-6	7.77E-5	8.88E-6	1.77E-5	2.39E-7	-3.99E-5	6.45E-5
NHWD	kg	4.91E-1	2.78E-1	4.14E-2	8.10E-1	2.15E-1	5.42E-1	8.77E-1	-6.78E-2	2.38E+0
RWD	kg	2.69E-4	3.05E-5	1.14E-5	3.11E-4	2.36E-5	4.06E-5	1.29E-6	-1.64E-5	3.60E-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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