

Environmental Profile

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

Ecochain v3.5.71



Product: 3038747 - Irish Pb Tank Connector W 1/2X1/2"
Unit: 1 piece
Manufacturer: Wavin - UK - Doncaster - Verified

LCA standard: EN15804+A2 (2019)
Standard database: Worldwide - Ecoinvent v 3.6 Cut-Off
Externally verified: Yes
Issue date: 09-02-2023
End of validity: 09-02-2028
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 - UK - Doncaster - Verified (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]

Statement of Confidentiality

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Results

Environmental impact	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
GWP-total	kg CO2 eq	3.03E-1	1.67E-3	2.06E-2	3.25E-1	9.23E-4	3.48E-2	4.24E-4	-1.60E-1	2.01E-1
GWP-f	kg CO2 eq	3.02E-1	1.67E-3	1.96E-2	3.23E-1	9.23E-4	3.48E-2	4.24E-4	-1.60E-1	1.99E-1
GWP-b	kg CO2 eq	8.09E-4	9.85E-7	1.07E-3	1.88E-3	5.60E-7	-3.38E-5	4.19E-7	-2.79E-4	1.57E-3
GWP-luluc	kg CO2 eq	1.97E-5	6.01E-7	1.23E-5	3.26E-5	3.27E-7	5.19E-6	8.76E-9	-8.64E-7	3.73E-5
ODP	kg CFC11 eq	4.48E-9	3.84E-10	1.86E-9	6.72E-9	2.13E-10	7.49E-10	1.16E-11	-1.48E-9	6.21E-9
AP	mol H+ eq	1.44E-3	1.05E-5	6.91E-5	1.52E-3	5.26E-6	3.01E-5	2.89E-7	-5.60E-4	9.94E-4
EP-fw	kg P eq	9.15E-6	1.36E-8	1.83E-7	9.34E-6	7.59E-9	1.52E-7	3.95E-10	-1.62E-6	7.89E-6
EP-m	kg N eq	3.88E-4	3.63E-6	1.23E-5	4.04E-4	1.88E-6	9.01E-6	5.19E-7	-1.27E-4	2.89E-4
EP-T	mol N eq	2.53E-3	4.00E-5	1.29E-4	2.70E-3	2.07E-5	9.85E-5	1.15E-6	-1.26E-3	1.56E-3
POCP	kg NMVOC eq	8.28E-4	1.13E-5	4.07E-5	8.80E-4	5.92E-6	3.02E-5	4.17E-7	-4.41E-4	4.76E-4
ADP-mm	kg Sb eq	5.99E-6	4.26E-8	3.48E-7	6.38E-6	2.39E-8	1.12E-7	2.87E-10	-1.09E-6	5.42E-6
ADP-f	MJ	4.21E+0	2.56E-2	2.59E-1	4.49E+0	1.42E-2	8.89E-2	8.54E-4	-1.94E+0	2.66E+0
WDP	m3 depriv.	2.49E-1	7.76E-5	3.33E-3	2.52E-1	4.35E-5	1.94E-3	5.86E-6	-4.40E-2	2.10E-1
PM	disease inc.	1.16E-8	1.49E-10	5.06E-10	1.23E-8	8.33E-11	4.59E-10	5.83E-12	-5.19E-9	7.62E-9
IR	kBq U-235 eq	1.71E-3	1.12E-4	2.62E-4	2.08E-3	6.19E-5	2.69E-4	4.08E-6	-1.07E-4	2.31E-3
ETP-fw	CTUe	9.77E-1	2.07E-2	3.90E-1	1.39E+0	1.15E-2	1.49E-1	1.74E-3	-1.17E-1	1.43E+0
HTP-c	CTUh	7.64E-11	7.44E-13	1.57E-11	9.28E-11	4.09E-13	1.33E-11	2.39E-14	-1.31E-11	9.34E-11
HTP-nc	CTUh	1.08E-9	2.45E-11	3.45E-10	1.45E-9	1.37E-11	1.65E-10	7.19E-13	-2.76E-10	1.35E-9
SQP	Pt	2.21E-1	2.15E-2	5.10E-2	2.93E-1	1.21E-2	6.94E-2	2.16E-3	-1.02E-2	3.67E-1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	6.62E-2	3.63E-4	8.59E-1	9.25E-1	2.03E-4	4.50E-3	3.80E-5	-9.59E-3	9.21E-1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	6.62E-2	3.63E-4	8.59E-1	9.25E-1	2.03E-4	4.50E-3	3.80E-5	-9.59E-3	9.21E-1
PENRE	MJ	4.53E+0	2.71E-2	2.82E-1	4.84E+0	1.50E-2	9.47E-2	9.06E-4	-2.10E+0	2.85E+0
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	4.53E+0	2.71E-2	2.82E-1	4.84E+0	1.50E-2	9.47E-2	9.06E-4	-2.10E+0	2.85E+0
PET	MJ	4.60E+0	2.75E-2	1.14E+0	5.77E+0	1.52E-2	9.92E-2	9.44E-4	-2.11E+0	3.77E+0
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	5.85E-3	2.86E-6	1.06E-4	5.96E-3	1.60E-6	6.67E-5	1.05E-6	-1.03E-3	5.00E-3

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	5.58E-7	6.46E-8	2.10E-7	8.32E-7	3.62E-8	1.54E-7	1.04E-9	-2.70E-7	7.54E-7
NHWD	kg	1.57E-2	1.56E-3	9.89E-4	1.83E-2	8.78E-4	4.49E-3	3.70E-3	-1.36E-3	2.60E-2
RWD	kg	2.10E-6	1.74E-7	1.59E-7	2.43E-6	9.63E-8	3.38E-7	5.60E-9	-1.42E-7	2.73E-6
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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