

Environmental Profile

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

Ecochain v3.5.71



Product: 3038733 - Irish Pb Str Tap Connector W 3/4x3/4
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	5.66E-1	3.29E-3	2.79E-2	5.97E-1	1.16E-3	4.31E-2	5.27E-4	-2.35E-1	4.07E-1
GWP-f	kg CO2 eq	5.63E-1	3.29E-3	2.61E-2	5.93E-1	1.16E-3	4.32E-2	5.27E-4	-2.35E-1	4.03E-1
GWP-b	kg CO2 eq	2.57E-3	1.94E-6	1.80E-3	4.37E-3	7.04E-7	-8.59E-5	5.23E-7	-3.03E-5	4.26E-3
GWP-luluc	kg CO2 eq	1.60E-4	1.18E-6	1.22E-5	1.73E-4	4.10E-7	7.78E-6	1.08E-8	2.22E-5	2.03E-4
ODP	kg CFC11 eq	1.61E-8	7.56E-10	2.80E-9	1.97E-8	2.67E-10	1.29E-9	1.44E-11	-2.53E-9	1.87E-8
AP	mol H+ eq	2.85E-3	2.06E-5	7.33E-5	2.94E-3	6.61E-6	5.28E-5	3.59E-7	-8.35E-4	2.17E-3
EP-fw	kg P eq	1.80E-5	2.68E-8	2.05E-7	1.82E-5	9.54E-9	2.53E-7	4.87E-10	-3.19E-6	1.53E-5
EP-m	kg N eq	6.43E-4	7.11E-6	1.44E-5	6.65E-4	2.36E-6	1.54E-5	6.51E-7	-1.85E-4	4.98E-4
EP-T	mol N eq	5.27E-3	7.85E-5	1.45E-4	5.49E-3	2.60E-5	1.70E-4	1.42E-6	-1.87E-3	3.82E-3
POCP	kg NMVOC eq	1.72E-3	2.23E-5	4.63E-5	1.79E-3	7.45E-6	5.09E-5	5.18E-7	-7.41E-4	1.10E-3
ADP-mm	kg Sb eq	1.23E-5	8.38E-8	3.37E-7	1.28E-5	3.00E-8	2.09E-7	3.55E-10	-1.39E-6	1.16E-5
ADP-f	MJ	7.32E+0	5.03E-2	3.59E-1	7.73E+0	1.78E-2	1.39E-1	1.06E-3	-2.67E+0	5.22E+0
WDP	m3 depriv.	3.16E-1	1.53E-4	3.91E-3	3.20E-1	5.46E-5	2.59E-3	6.82E-6	-6.26E-2	2.60E-1
PM	disease inc.	2.80E-8	2.93E-10	5.37E-10	2.88E-8	1.05E-10	7.88E-10	7.24E-12	-8.44E-9	2.13E-8
IR	kBq U-235 eq	8.98E-3	2.20E-4	3.25E-4	9.52E-3	7.78E-5	4.62E-4	5.08E-6	4.13E-4	1.05E-2
ETP-fw	CTUe	6.59E+0	4.07E-2	3.94E-1	7.02E+0	1.45E-2	2.44E-1	2.18E-3	-1.20E+0	6.08E+0
HTP-c	CTUh	2.46E-9	1.46E-12	1.61E-11	2.48E-9	5.14E-13	1.82E-11	2.94E-14	-2.08E-11	2.48E-9
HTP-nc	CTUh	8.39E-9	4.83E-11	3.46E-10	8.79E-9	1.72E-11	2.75E-10	8.95E-13	5.72E-9	1.48E-8
SQP	Pt	1.16E+0	4.24E-2	5.36E-2	1.26E+0	1.52E-2	1.22E-1	2.69E-3	-6.04E-2	1.34E+0
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	5.38E-1	7.15E-4	8.14E-1	1.35E+0	2.55E-4	7.56E-3	4.76E-5	-5.72E-3	1.36E+0
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	5.38E-1	7.15E-4	8.14E-1	1.35E+0	2.55E-4	7.56E-3	4.76E-5	-5.72E-3	1.36E+0
PENRE	MJ	7.86E+0	5.34E-2	3.93E-1	8.31E+0	1.89E-2	1.48E-1	1.12E-3	-2.89E+0	5.59E+0
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	7.86E+0	5.34E-2	3.93E-1	8.31E+0	1.89E-2	1.48E-1	1.12E-3	-2.89E+0	5.59E+0
PET	MJ	8.40E+0	5.41E-2	1.21E+0	9.66E+0	1.92E-2	1.55E-1	1.17E-3	-2.89E+0	6.94E+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	7.83E-3	5.63E-6	1.20E-4	7.95E-3	2.01E-6	8.79E-5	1.31E-6	-1.44E-3	6.61E-3

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	4.63E-6	1.27E-7	3.49E-7	5.11E-6	4.55E-8	2.65E-7	1.28E-9	-4.08E-6	1.34E-6
NHWD	kg	1.89E-1	3.07E-3	1.64E-3	1.93E-1	1.10E-3	7.21E-3	4.61E-3	-4.80E-3	2.01E-1
RWD	kg	8.89E-6	3.42E-7	2.64E-7	9.50E-6	1.21E-7	5.96E-7	6.97E-9	2.32E-8	1.02E-5
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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