

Environmental Profile

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

Ecochain v3.5.64



Product: 3011064 - Ed Tech Trap Coupler HTS 40x1 1/4"
 Unit: 1 piece
 Manufacturer: Wavin - IT - SM Maddalena

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



PP SWR (ED Tech) products made of PP for waste water discharge are the ideal solution for anyone who wants a quick and easy connection system. A push-fit system, made watertight using elastomeric seals. Triple-layer pipes, with a white inner layer for easier inspection. Low linear expansion.

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 - IT - SM Maddalena (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

A1 Raw material supply A2 Transport A3 Manufacturing

Construction process stage

A4 Transport gate to site
 A5 Assembly / Construction installation process

Use stage

B1 Use B2 Maintenance B3 Repair B4 Replacement B5 Refurbishment
 B6 Operational energy use B7 Operational water use

End-of-Life stage

C1 De-construction demolition C2 Transport C3 Waste processing
 C4 Disposal

Benefits and loads beyond the system boundaries

D Reuse- Recovery- Recycling- potential

Environmental impacts and parameters

GWP-total = EF Climate Change [kg CO2 eq]; **GWP-f** = EF Climate change - Fossil [kg CO2 eq]; **GWP-b** = EF Climate Change - Biogenic [kg CO2 eq]; **GWP-luluc** = EF 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	9.74E-2	4.34E-3	4.35E-3	1.06E-1	7.90E-4	7.04E-2	3.72E-4	-5.30E-2	1.25E-1
GWP-f	kg CO2 eq	1.12E-1	4.34E-3	3.72E-3	1.20E-1	7.90E-4	5.21E-2	3.72E-4	-6.10E-2	1.13E-1
GWP-b	kg CO2 eq	-1.49E-2	2.64E-6	3.15E-4	-1.46E-2	4.80E-7	1.83E-2	3.23E-7	8.05E-3	1.17E-2
GWP-luluc	kg CO2 eq	1.06E-4	1.54E-6	3.14E-4	4.22E-4	2.79E-7	4.90E-6	6.52E-9	-7.20E-5	3.55E-4
ODP	kg CFC11 eq	4.41E-9	1.00E-9	3.74E-10	5.78E-9	1.82E-10	7.78E-10	9.35E-12	-4.01E-9	2.75E-9
AP	mol H+ eq	4.63E-4	2.47E-5	1.50E-5	5.03E-4	4.50E-6	3.34E-5	2.24E-7	-1.69E-4	3.72E-4
EP-fw	kg P eq	2.98E-6	3.57E-8	5.79E-8	3.07E-6	6.50E-9	1.45E-7	2.96E-10	-1.24E-6	1.98E-6
EP-m	kg N eq	8.74E-5	8.85E-6	2.54E-6	9.88E-5	1.61E-6	1.07E-5	1.44E-7	-3.51E-5	7.61E-5
EP-T	mol N eq	9.63E-4	9.75E-5	2.85E-5	1.09E-3	1.77E-5	1.18E-4	9.07E-7	-3.96E-4	8.30E-4
POCP	kg NMVOC eq	3.89E-4	2.79E-5	8.86E-6	4.26E-4	5.07E-6	3.60E-5	3.40E-7	-1.51E-4	3.16E-4
ADP-mm	kg Sb eq	1.53E-6	1.12E-7	9.07E-8	1.73E-6	2.04E-8	1.22E-7	2.27E-10	-3.41E-7	1.53E-6
ADP-f	MJ	3.32E+0	6.66E-2	4.90E-2	3.43E+0	1.21E-2	9.12E-2	6.83E-4	-1.58E+0	1.96E+0
WDP	m3 depriv.	6.65E-2	2.04E-4	1.73E-2	8.41E-2	3.72E-5	1.67E-3	4.08E-6	-3.37E-2	5.21E-2
PM	disease inc.	4.30E-9	3.92E-10	1.50E-10	4.84E-9	7.13E-11	5.16E-10	4.70E-12	-1.96E-9	3.48E-9
IR	kBq U-235 eq	3.04E-3	2.91E-4	4.57E-5	3.37E-3	5.30E-5	2.91E-4	3.16E-6	-1.24E-3	2.48E-3
ETP-fw	CTUe	2.00E+0	5.41E-2	7.73E-2	2.13E+0	9.84E-3	1.13E-1	5.72E-4	-8.45E-1	1.41E+0
HTP-c	CTUh	3.73E-11	1.93E-12	4.12E-12	4.34E-11	3.50E-13	1.58E-11	1.72E-14	-1.75E-11	4.21E-11
HTP-nc	CTUh	9.14E-10	6.45E-11	8.55E-11	1.06E-9	1.17E-11	1.76E-10	3.71E-13	-3.99E-10	8.53E-10
SQP	Pt	1.79E+0	5.70E-2	8.93E-3	1.85E+0	1.04E-2	7.12E-2	1.75E-3	-2.54E+0	-6.05E-1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	3.22E-1	9.56E-4	1.70E-1	4.93E-1	1.74E-4	4.26E-3	2.61E-5	-4.37E-1	6.07E-2
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	3.22E-1	9.56E-4	1.70E-1	4.93E-1	1.74E-4	4.26E-3	2.61E-5	-4.37E-1	6.07E-2
PENRE	MJ	3.56E+0	7.07E-2	5.35E-2	3.68E+0	1.29E-2	9.72E-2	7.25E-4	-1.71E+0	2.09E+0
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	3.56E+0	7.07E-2	5.35E-2	3.68E+0	1.29E-2	9.72E-2	7.25E-4	-1.71E+0	2.09E+0
PET	MJ	3.88E+0	7.17E-2	2.23E-1	4.18E+0	1.30E-2	1.01E-1	7.51E-4	-2.15E+0	2.15E+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	1.27E-3	7.54E-6	4.12E-4	1.69E-3	1.37E-6	5.45E-5	8.39E-7	-6.51E-4	1.10E-3

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	1.18E-6	1.70E-7	4.76E-8	1.40E-6	3.10E-8	1.65E-7	8.29E-10	-8.01E-7	7.97E-7
NHWD	kg	7.75E-3	4.13E-3	4.64E-4	1.23E-2	7.51E-4	5.63E-3	3.00E-3	-2.24E-3	1.95E-2
RWD	kg	2.72E-6	4.53E-7	5.08E-8	3.22E-6	8.24E-8	3.77E-7	4.45E-9	-1.21E-6	2.48E-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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