

Environmental Profile

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

Ecochain v3.5.64



Product: 3011057 - Ed Tech Trap Bend HTSW 50x1 1/4"
Unit: 1 piece
Manufacturer: Wavin - IT - SM Maddalena

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.

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 - 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					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 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	1.18E-1	5.55E-3	5.70E-3	1.29E-1	1.03E-3	7.84E-2	4.84E-4	-6.30E-2	1.46E-1
GWP-f	kg CO2 eq	1.32E-1	5.55E-3	4.88E-3	1.43E-1	1.03E-3	5.92E-2	4.84E-4	-7.33E-2	1.30E-1
GWP-b	kg CO2 eq	-1.48E-2	3.37E-6	4.12E-4	-1.44E-2	6.23E-7	1.93E-2	4.20E-7	1.03E-2	1.52E-2
GWP-luluc	kg CO2 eq	1.23E-4	1.96E-6	4.12E-4	5.37E-4	3.63E-7	6.29E-6	8.39E-9	-9.02E-5	4.53E-4
ODP	kg CFC11 eq	4.98E-9	1.28E-9	4.90E-10	6.75E-9	2.37E-10	9.83E-10	1.21E-11	-4.58E-9	3.40E-9
AP	mol H+ eq	5.38E-4	3.16E-5	1.97E-5	5.89E-4	5.85E-6	4.17E-5	2.90E-7	-2.11E-4	4.26E-4
EP-fw	kg P eq	3.38E-6	4.57E-8	7.58E-8	3.50E-6	8.45E-9	1.86E-7	3.82E-10	-1.56E-6	2.13E-6
EP-m	kg N eq	1.02E-4	1.13E-5	3.32E-6	1.16E-4	2.09E-6	1.32E-5	1.87E-7	-4.31E-5	8.89E-5
EP-T	mol N eq	1.12E-3	1.25E-4	3.74E-5	1.28E-3	2.31E-5	1.45E-4	1.18E-6	-4.85E-4	9.65E-4
POCP	kg NMVOC eq	4.52E-4	3.56E-5	1.16E-5	5.00E-4	6.59E-6	4.47E-5	4.42E-7	-1.86E-4	3.65E-4
ADP-mm	kg Sb eq	1.79E-6	1.44E-7	1.19E-7	2.05E-6	2.66E-8	1.55E-7	2.94E-10	-4.30E-7	1.81E-6
ADP-f	MJ	4.00E+0	8.52E-2	6.42E-2	4.15E+0	1.58E-2	1.16E-1	8.87E-4	-1.95E+0	2.33E+0
WDP	m3 depriv.	8.00E-2	2.61E-4	2.27E-2	1.03E-1	4.84E-5	2.14E-3	5.02E-6	-4.30E-2	6.21E-2
PM	disease inc.	5.03E-9	5.01E-10	1.97E-10	5.73E-9	9.27E-11	6.52E-10	6.10E-12	-2.43E-9	4.05E-9
IR	kBq U-235 eq	3.46E-3	3.72E-4	5.99E-5	3.89E-3	6.89E-5	3.69E-4	4.10E-6	-1.54E-3	2.79E-3
ETP-fw	CTUe	2.37E+0	6.92E-2	1.01E-1	2.54E+0	1.28E-2	1.43E-1	7.43E-4	-1.06E+0	1.64E+0
HTP-c	CTUh	4.24E-11	2.46E-12	5.40E-12	5.03E-11	4.55E-13	1.92E-11	2.21E-14	-2.06E-11	4.94E-11
HTP-nc	CTUh	1.06E-9	8.25E-11	1.12E-10	1.25E-9	1.53E-11	2.18E-10	4.80E-13	-4.97E-10	9.89E-10
SQP	Pt	1.90E+0	7.29E-2	1.17E-2	1.98E+0	1.35E-2	9.08E-2	2.27E-3	-2.96E+0	-8.72E-1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	3.51E-1	1.22E-3	2.22E-1	5.74E-1	2.26E-4	5.46E-3	3.41E-5	-5.16E-1	6.37E-2
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	3.51E-1	1.22E-3	2.22E-1	5.74E-1	2.26E-4	5.46E-3	3.41E-5	-5.16E-1	6.37E-2
PENRE	MJ	4.29E+0	9.04E-2	7.01E-2	4.45E+0	1.67E-2	1.24E-1	9.41E-4	-2.10E+0	2.49E+0
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	4.29E+0	9.04E-2	7.01E-2	4.45E+0	1.67E-2	1.24E-1	9.41E-4	-2.10E+0	2.49E+0
PET	MJ	4.64E+0	9.17E-2	2.92E-1	5.02E+0	1.70E-2	1.29E-1	9.76E-4	-2.62E+0	2.55E+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	1.49E-3	9.64E-6	5.40E-4	2.04E-3	1.78E-6	6.86E-5	1.09E-6	-8.27E-4	1.28E-3

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	1.30E-6	2.18E-7	6.24E-8	1.58E-6	4.03E-8	2.08E-7	1.07E-9	-9.09E-7	9.20E-7
NHWD	kg	8.82E-3	5.28E-3	6.08E-4	1.47E-2	9.77E-4	6.85E-3	3.90E-3	-2.69E-3	2.37E-2
RWD	kg	3.10E-6	5.79E-7	6.66E-8	3.75E-6	1.07E-7	4.79E-7	5.79E-9	-1.49E-6	2.85E-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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