

Environmental Profile

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

Ecochain v3.5.64



Product: 3011054 - Ed Tech Trap Bend HTSW 32x1 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	8.54E-2	3.57E-3	3.45E-3	9.24E-2	6.32E-4	6.58E-2	2.97E-4	-4.57E-2	1.13E-1
GWP-f	kg CO2 eq	1.00E-1	3.56E-3	2.95E-3	1.07E-1	6.32E-4	4.75E-2	2.98E-4	-5.37E-2	1.02E-1
GWP-b	kg CO2 eq	-1.50E-2	2.16E-6	2.49E-4	-1.47E-2	3.84E-7	1.83E-2	2.58E-7	8.08E-3	1.16E-2
GWP-luluc	kg CO2 eq	1.03E-4	1.26E-6	2.49E-4	3.53E-4	2.24E-7	4.02E-6	5.27E-9	-7.06E-5	2.87E-4
ODP	kg CFC11 eq	4.21E-9	8.21E-10	2.96E-10	5.33E-9	1.46E-10	6.63E-10	7.48E-12	-3.73E-9	2.41E-9
AP	mol H+ eq	4.21E-4	2.03E-5	1.19E-5	4.54E-4	3.60E-6	2.85E-5	1.79E-7	-1.49E-4	3.37E-4
EP-fw	kg P eq	2.81E-6	2.93E-8	4.59E-8	2.88E-6	5.20E-9	1.19E-7	2.39E-10	-1.16E-6	1.84E-6
EP-m	kg N eq	8.04E-5	7.26E-6	2.01E-6	8.97E-5	1.29E-6	9.27E-6	1.15E-7	-3.15E-5	6.89E-5
EP-T	mol N eq	8.84E-4	8.00E-5	2.26E-5	9.87E-4	1.42E-5	1.02E-4	7.26E-7	-3.55E-4	7.48E-4
POCP	kg NMVOC eq	3.52E-4	2.29E-5	7.02E-6	3.82E-4	4.06E-6	3.11E-5	2.72E-7	-1.32E-4	2.85E-4
ADP-mm	kg Sb eq	1.37E-6	9.22E-8	7.19E-8	1.53E-6	1.63E-8	1.03E-7	1.82E-10	-2.93E-7	1.36E-6
ADP-f	MJ	2.89E+0	5.47E-2	3.89E-2	2.98E+0	9.70E-3	7.59E-2	5.47E-4	-1.35E+0	1.72E+0
WDP	m3 depriv.	5.81E-2	1.68E-4	1.38E-2	7.20E-2	2.98E-5	1.37E-3	3.46E-6	-2.97E-2	4.37E-2
PM	disease inc.	3.93E-9	3.22E-10	1.19E-10	4.37E-9	5.70E-11	4.36E-10	3.76E-12	-1.78E-9	3.09E-9
IR	kBq U-235 eq	2.82E-3	2.39E-4	3.63E-5	3.10E-3	4.24E-5	2.44E-4	2.52E-6	-1.13E-3	2.25E-3
ETP-fw	CTUe	1.94E+0	4.44E-2	6.13E-2	2.04E+0	7.87E-3	9.60E-2	4.58E-4	-8.17E-1	1.33E+0
HTP-c	CTUh	3.47E-11	1.58E-12	3.27E-12	3.95E-11	2.80E-13	1.38E-11	1.39E-14	-1.62E-11	3.73E-11
HTP-nc	CTUh	8.39E-10	5.29E-11	6.78E-11	9.60E-10	9.39E-12	1.50E-10	2.98E-13	-3.65E-10	7.55E-10
SQP	Pt	1.77E+0	4.68E-2	7.08E-3	1.83E+0	8.30E-3	5.89E-2	1.40E-3	-2.53E+0	-6.40E-1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	3.16E-1	7.85E-4	1.34E-1	4.51E-1	1.39E-4	3.50E-3	2.08E-5	-4.34E-1	2.14E-2
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	3.16E-1	7.85E-4	1.34E-1	4.51E-1	1.39E-4	3.50E-3	2.08E-5	-4.34E-1	2.14E-2
PENRE	MJ	3.10E+0	5.81E-2	4.24E-2	3.20E+0	1.03E-2	8.08E-2	5.80E-4	-1.46E+0	1.83E+0
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	3.10E+0	5.81E-2	4.24E-2	3.20E+0	1.03E-2	8.08E-2	5.80E-4	-1.46E+0	1.83E+0
PET	MJ	3.41E+0	5.89E-2	1.77E-1	3.65E+0	1.04E-2	8.43E-2	6.01E-4	-1.89E+0	1.85E+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	1.15E-3	6.19E-6	3.27E-4	1.48E-3	1.10E-6	4.56E-5	6.71E-7	-5.91E-4	9.37E-4

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	1.13E-6	1.40E-7	3.78E-8	1.31E-6	2.48E-8	1.40E-7	6.65E-10	-7.47E-7	7.29E-7
NHWD	kg	7.30E-3	3.39E-3	3.68E-4	1.11E-2	6.01E-4	4.88E-3	2.40E-3	-2.06E-3	1.69E-2
RWD	kg	2.54E-6	3.72E-7	4.03E-8	2.95E-6	6.59E-8	3.19E-7	3.56E-9	-1.11E-6	2.22E-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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