

Environmental Profile

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

Ecochain v3.5.64



Product: 3011061 - Ed Tech Trap Bend Long HTSWL 40x1 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	1.20E-1	5.78E-3	6.00E-3	1.32E-1	1.08E-3	7.91E-2	5.09E-4	-6.62E-2	1.47E-1
GWP-f	kg CO2 eq	1.35E-1	5.78E-3	5.14E-3	1.46E-1	1.08E-3	6.06E-2	5.09E-4	-7.48E-2	1.33E-1
GWP-b	kg CO2 eq	-1.48E-2	3.51E-6	4.34E-4	-1.44E-2	6.55E-7	1.86E-2	4.42E-7	8.71E-3	1.29E-2
GWP-luluc	kg CO2 eq	1.15E-4	2.05E-6	4.34E-4	5.51E-4	3.82E-7	6.55E-6	8.80E-9	-7.95E-5	4.78E-4
ODP	kg CFC11 eq	4.85E-9	1.33E-9	5.15E-10	6.70E-9	2.49E-10	9.99E-10	1.28E-11	-4.55E-9	3.41E-9
AP	mol H+ eq	5.44E-4	3.29E-5	2.07E-5	5.98E-4	6.15E-6	4.26E-5	3.05E-7	-2.11E-4	4.36E-4
EP-fw	kg P eq	3.34E-6	4.75E-8	7.98E-8	3.46E-6	8.88E-9	1.93E-7	4.02E-10	-1.45E-6	2.21E-6
EP-m	kg N eq	1.01E-4	1.18E-5	3.50E-6	1.17E-4	2.20E-6	1.34E-5	1.97E-7	-4.26E-5	9.00E-5
EP-T	mol N eq	1.12E-3	1.30E-4	3.93E-5	1.29E-3	2.42E-5	1.47E-4	1.24E-6	-4.78E-4	9.83E-4
POCP	kg NMVOC eq	4.59E-4	3.71E-5	1.22E-5	5.09E-4	6.93E-6	4.54E-5	4.64E-7	-1.87E-4	3.74E-4
ADP-mm	kg Sb eq	1.82E-6	1.49E-7	1.25E-7	2.10E-6	2.79E-8	1.59E-7	3.09E-10	-4.35E-7	1.85E-6
ADP-f	MJ	4.12E+0	8.87E-2	6.76E-2	4.28E+0	1.66E-2	1.20E-1	9.33E-4	-2.01E+0	2.41E+0
WDP	m3 depriv.	8.22E-2	2.72E-4	2.39E-2	1.06E-1	5.08E-5	2.23E-3	5.23E-6	-4.21E-2	6.66E-2
PM	disease inc.	5.03E-9	5.22E-10	2.07E-10	5.76E-9	9.74E-11	6.67E-10	6.41E-12	-2.34E-9	4.19E-9
IR	kBq U-235 eq	3.46E-3	3.88E-4	6.31E-5	3.91E-3	7.24E-5	3.78E-4	4.32E-6	-1.48E-3	2.88E-3
ETP-fw	CTUe	2.19E+0	7.20E-2	1.07E-1	2.37E+0	1.35E-2	1.46E-1	7.81E-4	-9.51E-1	1.58E+0
HTP-c	CTUh	4.26E-11	2.56E-12	5.69E-12	5.08E-11	4.79E-13	1.97E-11	2.32E-14	-2.01E-11	5.09E-11
HTP-nc	CTUh	1.06E-9	8.59E-11	1.18E-10	1.26E-9	1.60E-11	2.25E-10	5.05E-13	-4.77E-10	1.03E-9
SQP	Pt	1.84E+0	7.59E-2	1.23E-2	1.93E+0	1.42E-2	9.41E-2	2.39E-3	-2.68E+0	-6.39E-1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	3.39E-1	1.27E-3	2.34E-1	5.74E-1	2.38E-4	5.67E-3	3.58E-5	-4.65E-1	1.15E-1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	3.39E-1	1.27E-3	2.34E-1	5.74E-1	2.38E-4	5.67E-3	3.58E-5	-4.65E-1	1.15E-1
PENRE	MJ	4.42E+0	9.42E-2	7.37E-2	4.59E+0	1.76E-2	1.28E-1	9.90E-4	-2.17E+0	2.56E+0
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	4.42E+0	9.42E-2	7.37E-2	4.59E+0	1.76E-2	1.28E-1	9.90E-4	-2.17E+0	2.56E+0
PET	MJ	4.76E+0	9.54E-2	3.08E-1	5.16E+0	1.78E-2	1.34E-1	1.03E-3	-2.64E+0	2.68E+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	1.51E-3	1.00E-5	5.68E-4	2.09E-3	1.87E-6	7.10E-5	1.15E-6	-7.87E-4	1.38E-3

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	1.29E-6	2.27E-7	6.57E-8	1.58E-6	4.24E-8	2.12E-7	1.13E-9	-9.07E-7	9.27E-7
NHWD	kg	8.70E-3	5.50E-3	6.40E-4	1.48E-2	1.03E-3	7.04E-3	4.10E-3	-2.62E-3	2.44E-2
RWD	kg	3.09E-6	6.03E-7	7.01E-8	3.77E-6	1.13E-7	4.89E-7	6.08E-9	-1.43E-6	2.95E-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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