

Environmental Profile

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

Ecochain v3.5.64



Product: 3011058 - Ed Tech Trap Bend HTSW 40x1 1/2"
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	4.52E-1	6.92E-3	5.25E-3	4.64E-1	9.48E-4	3.07E-1	4.46E-4	-2.08E-1	5.65E-1
GWP-f	kg CO2 eq	4.71E-1	6.92E-3	4.49E-3	4.83E-1	9.48E-4	2.87E-1	4.47E-4	-2.18E-1	5.54E-1
GWP-b	kg CO2 eq	-1.97E-2	4.20E-6	3.80E-4	-1.93E-2	5.75E-7	1.93E-2	3.88E-7	1.03E-2	1.02E-2
GWP-luluc	kg CO2 eq	4.12E-4	2.45E-6	3.79E-4	7.94E-4	3.35E-7	7.62E-6	7.76E-9	-9.71E-5	7.04E-4
ODP	kg CFC11 eq	2.08E-8	1.59E-9	4.51E-10	2.28E-8	2.18E-10	1.52E-9	1.12E-11	-1.94E-8	5.19E-9
AP	mol H+ eq	2.05E-3	3.94E-5	1.81E-5	2.10E-3	5.40E-6	7.70E-5	2.68E-7	-3.25E-4	1.86E-3
EP-fw	kg P eq	1.52E-5	5.69E-8	6.98E-8	1.53E-5	7.80E-9	2.33E-7	3.54E-10	-1.86E-6	1.37E-5
EP-m	kg N eq	3.72E-4	1.41E-5	3.06E-6	3.89E-4	1.93E-6	2.83E-5	1.73E-7	-7.86E-5	3.41E-4
EP-T	mol N eq	4.13E-3	1.55E-4	3.44E-5	4.32E-3	2.13E-5	3.14E-4	1.09E-6	-8.75E-4	3.78E-3
POCP	kg NMVOC eq	1.72E-3	4.44E-5	1.07E-5	1.77E-3	6.08E-6	9.09E-5	4.08E-7	-3.23E-4	1.55E-3
ADP-mm	kg Sb eq	4.56E-6	1.79E-7	1.09E-7	4.85E-6	2.45E-8	2.05E-7	2.72E-10	-4.95E-7	4.58E-6
ADP-f	MJ	1.24E+1	1.06E-1	5.92E-2	1.25E+1	1.45E-2	1.55E-1	8.19E-4	-4.41E+0	8.30E+0
WDP	m3 depriv.	2.44E-1	3.26E-4	2.09E-2	2.65E-1	4.46E-5	2.75E-3	4.71E-6	-5.30E-2	2.15E-1
PM	disease inc.	1.67E-8	6.24E-10	1.82E-10	1.75E-8	8.55E-11	1.02E-9	5.63E-12	-2.85E-9	1.58E-8
IR	kBq U-235 eq	1.52E-2	4.64E-4	5.52E-5	1.58E-2	6.36E-5	5.13E-4	3.79E-6	-2.36E-3	1.40E-2
ETP-fw	CTUe	7.03E+0	8.62E-2	9.33E-2	7.21E+0	1.18E-2	2.24E-1	6.86E-4	-1.27E+0	6.18E+0
HTP-c	CTUh	1.40E-10	3.07E-12	4.98E-12	1.48E-10	4.20E-13	4.78E-11	2.04E-14	-3.10E-11	1.65E-10
HTP-nc	CTUh	3.81E-9	1.03E-10	1.03E-10	4.01E-9	1.41E-11	4.61E-10	4.44E-13	-6.49E-10	3.84E-9
SQP	Pt	3.09E+0	9.08E-2	1.08E-2	3.19E+0	1.24E-2	1.22E-1	2.10E-3	-3.03E+0	2.97E-1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	7.12E-1	1.52E-3	2.05E-1	9.18E-1	2.09E-4	6.78E-3	3.14E-5	-5.25E-1	4.00E-1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	7.12E-1	1.52E-3	2.05E-1	9.18E-1	2.09E-4	6.78E-3	3.14E-5	-5.25E-1	4.00E-1
PENRE	MJ	1.33E+1	1.13E-1	6.45E-2	1.34E+1	1.54E-2	1.65E-1	8.69E-4	-4.84E+0	8.78E+0
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	1.33E+1	1.13E-1	6.45E-2	1.34E+1	1.54E-2	1.65E-1	8.69E-4	-4.84E+0	8.78E+0
PET	MJ	1.40E+1	1.14E-1	2.69E-1	1.44E+1	1.57E-2	1.72E-1	9.01E-4	-5.36E+0	9.18E+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	5.51E-3	1.20E-5	4.97E-4	6.02E-3	1.65E-6	1.19E-4	1.01E-6	-1.03E-3	5.11E-3

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	6.53E-6	2.72E-7	5.75E-8	6.86E-6	3.72E-8	3.30E-7	9.92E-10	-3.77E-6	3.45E-6
NHWD	kg	3.39E-2	6.58E-3	5.60E-4	4.10E-2	9.02E-4	1.84E-2	3.60E-3	-3.72E-3	6.03E-2
RWD	kg	1.32E-5	7.22E-7	6.14E-8	1.40E-5	9.89E-8	6.81E-7	5.34E-9	-2.53E-6	1.23E-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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