

Environmental Profile

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

Ecochain v4.3.1



Product: 3051005 - PPr Tee WT 125
 Unit: 1 piece
 Manufacturer: Wavin - TR - Adana
 Location: Güzelevler Mahallesi
 Address: Girne Bulvarı 294
 01321 Adana
 Turkey

LCA standard: EN15804+A2 (2019)
 Standard database: Worldwide - Ecoinvent v 3.6 Cut-Off
 Externally verified: Yes
 Issue date: 04-10-2022
 End of validity: 04-10-2027
 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 - TR - Adana (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 EN15804+A2 Climate Change [kg CO2 eq]; **GWP-f** = EF Climate change - Fossil [kg CO2 eq]; **GWP-b** = EF EN15804+A2 Climate Change - Biogenic [kg CO2 eq]; **GWP-luluc** = EF EN15804+A2 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-f** = EF Resource use, fossils [MJ]; **ADP-mm** = EF Resource use, minerals and metals [kg Sb eq]; **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]

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Results

Environmental impact	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
GWP-total	kg CO2 eq	4.44E+0	3.29E-1	1.28E-1	4.90E+0	1.07E-1	3.47E+0	5.05E-2	-2.44E+0	6.09E+0
GWP-f	kg CO2 eq	4.42E+0	3.29E-1	1.24E-1	4.88E+0	1.07E-1	3.29E+0	5.05E-2	-2.64E+0	5.68E+0
GWP-b	kg CO2 eq	2.01E-2	-5.98E-5	4.33E-3	2.43E-2	6.50E-5	1.80E-1	4.39E-5	2.02E-1	4.06E-1
GWP-luluc	kg CO2 eq	2.47E-3	2.10E-4	7.55E-5	2.76E-3	3.79E-5	6.13E-4	8.59E-7	-1.95E-3	1.46E-3
ODP	kg CFC11 eq	1.07E-7	6.71E-8	9.93E-9	1.84E-7	2.47E-8	8.42E-8	1.27E-9	-1.11E-7	1.83E-7
AP	mol H+ eq	1.80E-2	9.28E-3	7.88E-4	2.80E-2	6.10E-4	3.51E-3	3.02E-5	-8.00E-3	2.42E-2
EP-fw	kg P eq	7.95E-5	1.64E-6	9.89E-6	9.10E-5	8.81E-7	1.78E-5	3.94E-8	-4.56E-5	6.42E-5
EP-m	kg N eq	2.92E-3	2.31E-3	2.75E-4	5.51E-3	2.18E-4	1.04E-3	1.96E-5	-1.47E-3	5.31E-3
EP-T	mol N eq	3.20E-2	2.57E-2	1.86E-3	5.96E-2	2.40E-3	1.14E-2	1.23E-4	-1.64E-2	5.72E-2
POCP	kg NMVOC eq	1.40E-2	6.69E-3	6.07E-4	2.13E-2	6.87E-4	3.60E-3	4.60E-5	-6.99E-3	1.86E-2
ADP-f	MJ	1.51E+2	4.33E+0	1.23E+0	1.57E+2	1.64E+0	1.08E+1	9.24E-2	-8.10E+1	8.86E+1
ADP-mm	kg Sb eq	5.82E-5	3.39E-6	9.82E-6	7.14E-5	2.77E-6	1.39E-5	3.04E-8	-1.79E-5	7.03E-5
WDP	m3 depriv.	3.11E+0	7.95E-3	2.56E-1	3.37E+0	5.04E-3	2.08E-1	4.67E-4	-1.66E+0	1.92E+0
PM	disease inc.	1.52E-7	1.32E-8	1.08E-8	1.76E-7	9.66E-9	5.74E-8	6.35E-10	-7.83E-8	1.65E-7
IR	kBq U-235 eq	8.91E-2	1.85E-2	3.69E-3	1.11E-1	7.18E-3	3.32E-2	4.28E-4	-4.96E-2	1.03E-1
ETP-fw	CTUe	5.07E+1	2.98E+0	6.65E+0	6.03E+1	1.33E+0	1.26E+1	7.73E-2	-2.56E+1	4.86E+1
HTP-c	CTUh	1.40E-9	1.80E-10	4.05E-10	1.98E-9	4.75E-11	1.50E-9	2.26E-12	-5.38E-10	2.99E-9
HTP-nc	CTUh	3.24E-8	2.59E-9	7.14E-9	4.21E-8	1.59E-9	1.83E-8	4.98E-11	-1.59E-8	4.62E-8
SQP	Pt	1.46E+1	1.15E+0	1.64E+0	1.74E+1	1.41E+0	8.57E+0	2.37E-1	-3.98E+1	-1.22E+1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	4.06E+0	3.30E-2	2.24E+1	2.64E+1	2.36E-2	5.27E-1	3.58E-3	-7.82E+0	1.92E+1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	4.06E+0	3.30E-2	2.24E+1	2.64E+1	2.36E-2	5.27E-1	3.58E-3	-7.82E+0	1.92E+1
PENRE	MJ	1.63E+2	4.59E+0	1.31E+0	1.68E+2	1.74E+0	1.15E+1	9.80E-2	-8.73E+1	9.46E+1
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	1.63E+2	4.59E+0	1.31E+0	1.68E+2	1.74E+0	1.15E+1	9.80E-2	-8.73E+1	9.46E+1
PET	MJ	1.67E+2	4.63E+0	2.37E+1	1.95E+2	1.77E+0	1.21E+1	1.02E-1	-9.51E+1	1.14E+2
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	4.97E-2	2.78E-4	6.13E-3	5.61E-2	1.86E-4	6.20E-3	1.14E-4	-2.82E-2	3.44E-2

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	2.33E-5	5.28E-6	7.91E-6	3.65E-5	4.20E-6	1.80E-5	1.11E-7	-2.15E-5	3.74E-5
NHWD	kg	2.87E-1	5.71E-2	1.47E-1	4.91E-1	1.02E-1	5.35E-1	4.07E-1	-7.71E-2	1.46E+0
RWD	kg	7.95E-5	2.98E-5	4.52E-6	1.14E-4	1.12E-5	4.24E-5	6.03E-7	-4.54E-5	1.23E-4
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	5.35E+0	5.35E+0	0	0	0	0	5.35E+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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