

Environmental Profile

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

Ecochain v4.0.3



Product: 3081443 - Tegra 1000 PP Empty Base H=620
Unit: 1 piece
Manufacturer: Wavin

Wavin's Tegra drains that Wavin offers are also part of a sustainable total solution for your sewer system. Your system becomes accessible for inspection and maintenance-friendly thanks to our flow profiles. Tegra wells are resistant to acids, bases and solvents.

LCA standard: EN15804+A2 (2019)
Standard database: Worldwide - Ecoinvent v 3.6 Cut-Off
Externally verified: Yes
Issue date: 26-07-2023
End of validity: 26-07-2028
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 (2021). (☑ = 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 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-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]

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Results

Environmental impact	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
GWP-total	kg CO2 eq	7.89E+1	3.72E+0	1.29E+0	8.39E+1	1.18E+0	4.82E+1	5.55E-1	-5.52E+1	7.86E+1
GWP-f	kg CO2 eq	9.24E+1	3.71E+0	1.30E+0	9.75E+1	1.18E+0	3.42E+1	5.55E-1	-5.50E+1	7.85E+1
GWP-b	kg CO2 eq	-1.35E+1	1.71E-3	-1.52E-2	-1.36E+1	7.14E-4	1.39E+1	4.83E-4	-1.85E-1	1.74E-1
GWP-luluc	kg CO2 eq	3.06E-2	1.36E-3	1.42E-3	3.34E-2	4.16E-4	6.64E-3	9.48E-6	-1.69E-2	2.36E-2
ODP	kg CFC11 eq	2.34E-6	8.19E-7	7.33E-8	3.23E-6	2.71E-7	8.74E-7	1.39E-8	-2.20E-6	2.19E-6
AP	mol H+ eq	3.37E-1	2.15E-2	1.42E-2	3.73E-1	6.70E-3	3.66E-2	3.32E-4	-1.61E-1	2.55E-1
EP-fw	kg P eq	1.42E-3	3.75E-5	8.06E-5	1.54E-3	9.68E-6	1.92E-4	4.34E-7	-6.70E-4	1.07E-3
EP-m	kg N eq	5.70E-2	7.59E-3	1.46E-3	6.60E-2	2.40E-3	1.07E-2	2.16E-4	-2.97E-2	4.97E-2
EP-T	mol N eq	6.56E-1	8.37E-2	1.74E-2	7.57E-1	2.64E-2	1.18E-1	1.35E-3	-3.31E-1	5.72E-1
POCP	kg NMVOC eq	2.95E-1	2.39E-2	5.84E-3	3.25E-1	7.56E-3	3.72E-2	5.06E-4	-1.49E-1	2.22E-1
ADP-mm	kg Sb eq	1.77E-3	9.41E-5	1.82E-4	2.05E-3	3.04E-5	1.45E-4	3.35E-7	-3.83E-4	1.84E-3
ADP-f	MJ	3.27E+3	5.60E+1	1.24E+1	3.33E+3	1.81E+1	1.16E+2	1.02E+0	-1.71E+3	1.76E+3
WDP	m3 depriv.	6.31E+1	2.00E-1	5.04E-1	6.38E+1	5.54E-2	2.25E+0	5.29E-3	-2.94E+1	3.67E+1
PM	disease inc.	3.23E-6	3.33E-7	8.52E-8	3.65E-6	1.06E-7	6.02E-7	6.98E-9	-1.49E-6	2.87E-6
IR	kBq U-235 eq	1.86E+0	2.35E-1	9.20E-3	2.10E+0	7.89E-2	3.50E-1	4.71E-3	-8.66E-1	1.67E+0
ETP-fw	CTUe	5.44E+2	4.99E+1	1.17E+2	7.11E+2	1.47E+1	1.30E+2	8.50E-1	-2.60E+2	5.96E+2
HTP-c	CTUh	2.97E-8	1.62E-9	6.03E-9	3.74E-8	5.22E-10	1.59E-8	2.49E-11	-1.38E-8	4.00E-8
HTP-nc	CTUh	6.43E-7	5.46E-8	1.51E-7	8.49E-7	1.75E-8	1.94E-7	5.48E-10	-2.92E-7	7.70E-7
SQP	Pt	1.31E+3	4.86E+1	2.12E+1	1.38E+3	1.55E+1	9.24E+1	2.61E+0	-1.02E+3	4.63E+2
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	2.15E+2	7.01E-1	2.30E+2	4.45E+2	2.59E-1	5.69E+0	3.92E-2	-1.67E+2	2.83E+2
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	2.15E+2	7.01E-1	2.30E+2	4.45E+2	2.59E-1	5.69E+0	3.92E-2	-1.67E+2	2.83E+2
PENRE	MJ	3.50E+3	5.95E+1	1.32E+1	3.58E+3	1.92E+1	1.23E+2	1.08E+0	-1.84E+3	1.88E+3
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	3.50E+3	5.95E+1	1.32E+1	3.58E+3	1.92E+1	1.23E+2	1.08E+0	-1.84E+3	1.88E+3
PET	MJ	3.72E+3	6.02E+1	2.43E+2	4.02E+3	1.94E+1	1.29E+2	1.12E+0	-2.01E+3	2.16E+3
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	9.54E-1	6.82E-3	1.40E-2	9.74E-1	2.04E-3	6.66E-2	1.25E-3	-4.49E-1	5.96E-1

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	5.69E-4	1.42E-4	2.63E-9	7.10E-4	4.62E-5	1.89E-4	1.23E-6	-4.66E-4	4.81E-4
NHWD	kg	4.83E+0	3.55E+0	1.04E-2	8.40E+0	1.12E+0	5.68E+0	4.47E+0	-1.83E+0	1.78E+1
RWD	kg	1.75E-3	3.68E-4	9.80E-10	2.12E-3	1.23E-4	4.45E-4	6.63E-6	-8.05E-4	1.89E-3
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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