## **Environmental Profile**

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

#### Ecochain v3.5.64

Product:	3062953 - Tegra 1000x160 TP3 90° Left BQ 4,5
Unit:	1 Piece
Manufacturer:	Wavin - SE - Eskilstuna

Wavin Tegra 1000 PP can be installed in sewer- and rainwater applications. The manhole system consist of a base with different flow profiles and connections as well as a shaft pipe and cone. Tegra 1000 PP can be installed in heavy traffic area according to LM 1 (DIN EN 1991-2/NA) former SLW60.

LCA standard:	EN15804+A2 (2019)
Standard database:	Worldwide - Ecoinvent v 3.6 Cut-Off
Externally verified:	Yes
Issue date:	20-06-2022
End of validity:	20-06-2027
Verifier:	Harry van Ewijk - 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 - SE - Eskilstuna (2020). (🗹 = module declared, MND = module not declared).

A1 MND	A2 MND	A3 ☑	A4 MND	A5 MND	B1 MND	B2 MND	B3 MND	B4 MND	B5 MND	B6 MND	B7 MND	C1 MND	C2 ☑	C3 ☑	C4 ☑	D V
Product stage Use stage								I	End-of-Life stage							
A1 Raw materia	A Raw material supply A2 Transport A3 Manufacturing Construction process stage							C1 De-construction demolition C2 Transport C3 Waste processing C4 Disposal Benefits and loads beyond the system boundaries								
Construction																
A4 Transport g	ate to site											Benefits and I	oads beyond	the system b	oundaries	
As Assembly / Construction installation process							Douso- Dooo	vorv- Poovoling	- notontial							

A5 Assembly / Construction installation process

#### Environmental impacts and parameters

**GWP-total** = EF Climate Change [kg C02 eq]; **GWP-f** = EF Climate change - Fossil [kg C02 eq]; **GWP-b** = EF Climate Change - Land use and LU change [kg C02 eq]; **GWP-f** = EF Climate Change - Fossil [kg C02 eq]; **GWP-b** = EF Climate Change - Biogenic [kg C02 eq]; **GWP-luluc** = EF Climate Change - Land use and LU change [kg C02 eq]; **GWP-f** = EF Climate change - Fossil [kg C02 eq]; **GWP-b** = EF Climate Change - Land use and LU change [kg C02 eq]; **GWP-f** = EF Climate Change - Fossil [kg C02 eq]; **GWP-f** = EF Climate Change - Land use and LU change [kg C02 eq]; **GWP-f** = EF Climate Change - EF Climate Change - Land use and LU change [kg C02 eq]; **GWP-f** = EF Climate Change - EF Climate Change - Land use and LU change [kg C02 eq]; **GWP-f** = EF Climate Change - Fossil [kg C02 eq]; **GWP-f** = EF Climate Change - Land use and LU change [kg C02 eq]; **GWP-f** = EF Climate Change - EF Climate Change - Land use and LU change [kg C02 eq]; **GWP-f** = EF Climate Change - EF Climate Change - Land use and LU change [kg C02 eq]; **GWP-f** = EF Climate Change - EF Climate Change - Land use [model in the eq]; **FO** = EF Climate Change - EF Climate Change - EF Climate Change - Land use and LU change [kg C02 eq]; **GWP-f** = EF Climate Change - EF Climate Change - Land use and LU change [kg C02 eq]; **GWP-f** = EF Climate Change - EF Climate Change - Land use [model in the eq]; **PF** = EF Climate Change - EF Climate Change - EF Climate Change - EF Climate Change - Land use [ND]; **WD** = EF Climate Change - Land use [S C02 eq]; **GWP-f** = EF Climate Change - EF Climate Change - EF Climate Change - EF Climate Change - Land use [S C02 eq]; **GWP-f** = EF Climate Change - EF Climate Change - Land use [S C02 eq]; **FF** = EF Climate Change - EF Climate Change [MJ]

#### Statement of Confidentiality

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D Reuse- Recovery- Recycling- potential

# Results

Environmental impact	Unit	A3	A1-A3	C2	C3	C4	D	Total
GWP-total	kg CO2 eq	4.26E+0	4.26E+0	0	0	0	0	4.26E+0
GWP-f	kg CO2 eq	3.09E+0	3.09E+0	0	0	0	0	3.09E+0
GWP-b	kg CO2 eq	8.12E-1	8.12E-1	0	0	0	0	8.12E-1
GWP-luluc	kg CO2 eq	3.59E-1	3.59E-1	0	0	0	0	3.59E-1
ODP	kg CFC11 eq	3.50E-7	3.50E-7	0	0	0	0	3.50E-7
AP	mol H+ eq	2.62E-2	2.62E-2	0	0	0	0	2.62E-2
EP-fw	kg P eq	5.70E-5	5.70E-5	0	0	0	0	5.70E-5
EP-m	kg N eq	7.75E-3	7.75E-3	0	0	0	0	7.75E-3
EP-T	mol N eq	8.51E-2	8.51E-2	0	0	0	0	8.51E-2
POCP	kg NMVOC eq	2.36E-2	2.36E-2	0	0	0	0	2.36E-2
ADP-mm	kg Sb eq	9.29E-5	9.29E-5	0	0	0	0	9.29E-5
ADP-f	MJ	3.07E+1	3.07E+1	0	0	0	0	3.07E+1
WDP	m3 depriv.	1.98E+1	1.98E+1	0	0	0	0	1.98E+1
PM	disease inc.	4.41E-7	4.41E-7	0	0	0	0	4.41E-7
IR	kBq U-235 eq	9.12E-2	9.12E-2	0	0	0	0	9.12E-2
ETP-fw	CTUe	8.56E+1	8.56E+1	0	0	0	0	8.56E+1
HTP-c	CTUh	3.38E-9	3.38E-9	0	0	0	0	3.38E-9
HTP-nc	CTUh	9.21E-8	9.21E-8	0	0	0	0	9.21E-8
SQP	Pt	4.03E+0	4.03E+0	0	0	0	0	4.03E+0
Resource use	Unit	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	1.94E+2	1.94E+2	0	0	0	0	1.94E+2
PERM	MJ	0	0	0	0	0	0	0
PERT	MJ	1.94E+2	1.94E+2	0	0	0	0	1.94E+2
PENRE	MJ	3.26E+1	3.26E+1	0	0	0	0	3.26E+1
PENRM	MJ	0	0	0	0	0	0	0
PENRT	MJ	3.26E+1	3.26E+1	0	0	0	0	3.26E+1
PET	MJ	2.26E+2	2.26E+2	0	0	0	0	2.26E+2
SM	kg	0	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0
FW	m3	4.70E-1	4.70E-1	0	0	0	0	4.70E-1

Output flows and waste categories	Unit	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	4.67E-5	4.67E-5	0	0	0	0	4.67E-5
NHWD	kg	1.43E-1	1.43E-1	0	0	0	0	1.43E-1
RWD	kg	1.30E-4	1.30E-4	0	0	0	0	1.30E-4
CRU	kg	0	0	0	0	0	0	0
MFR	kg	0	0	0	0	0	0	0
MER	kg	0	0	0	0	0	0	0
EE	МЈ	0	0	0	0	0	0	0
EET	MJ	0	0	0	0	0	0	0
EEE	МЈ	0	0	0	0	0	0	0



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