

Environmental Profile

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

Ecochain v3.5.64



Product: 3067797 - SiTech+ Coupler STMM 32 S/S
Unit: 1 piece
Manufacturer: Wavin - IT - SM Maddalena

Wavin SiTech+ is a waste water system made of mineral- reinforced polypropylene (PP), which offers increased durability, but more importantly is quiet and easy to install.

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					D Reuse- Recovery- Recycling- potential											
A5 Assembly / Construction installation process																

Results

Environmental impact	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
GWP-total	kg CO2 eq	7.27E-2	1.24E-3	4.20E-3	7.81E-2	8.45E-4	5.89E-2	4.29E-4	-3.89E-2	9.94E-2
GWP-f	kg CO2 eq	8.72E-2	1.24E-3	3.60E-3	9.20E-2	8.44E-4	3.93E-2	4.29E-4	-5.00E-2	8.26E-2
GWP-b	kg CO2 eq	-1.46E-2	7.54E-7	3.04E-4	-1.43E-2	5.13E-7	1.96E-2	3.83E-7	1.11E-2	1.64E-2
GWP-luluc	kg CO2 eq	9.82E-5	4.39E-7	3.04E-4	4.02E-4	2.99E-7	4.75E-6	7.37E-9	-9.26E-5	3.15E-4
ODP	kg CFC11 eq	6.55E-9	2.86E-10	3.61E-10	7.19E-9	1.95E-10	7.70E-10	1.09E-11	-3.12E-9	5.05E-9
AP	mol H+ eq	3.69E-4	7.07E-6	1.45E-5	3.90E-4	4.81E-6	3.21E-5	2.61E-7	-1.72E-4	2.55E-4
EP-fw	kg P eq	2.19E-6	1.02E-8	5.59E-8	2.26E-6	6.95E-9	1.42E-7	3.39E-10	-1.48E-6	9.29E-7
EP-m	kg N eq	7.17E-5	2.53E-6	2.45E-6	7.67E-5	1.72E-6	1.00E-5	2.29E-7	-3.51E-5	5.36E-5
EP-T	mol N eq	7.77E-4	2.79E-5	2.75E-5	8.32E-4	1.90E-5	1.10E-4	1.06E-6	-3.97E-4	5.65E-4
POCP	kg NMVOC eq	3.12E-4	7.97E-6	8.55E-6	3.28E-4	5.42E-6	3.37E-5	3.95E-7	-1.47E-4	2.21E-4
ADP-mm	kg Sb eq	7.30E-6	3.21E-8	8.76E-8	7.42E-6	2.18E-8	1.21E-7	2.61E-10	-5.55E-7	7.01E-6
ADP-f	MJ	2.75E+0	1.90E-2	4.73E-2	2.81E+0	1.30E-2	8.90E-2	7.96E-4	-1.37E+0	1.55E+0
WDP	m3 depriv.	5.56E-2	5.85E-5	1.67E-2	7.24E-2	3.98E-5	1.76E-3	3.65E-6	-3.65E-2	3.77E-2
PM	disease inc.	4.10E-9	1.12E-10	1.45E-10	4.36E-9	7.62E-11	4.91E-10	5.46E-12	-2.20E-9	2.73E-9
IR	kBq U-235 eq	3.09E-3	8.33E-5	4.41E-5	3.22E-3	5.66E-5	2.84E-4	3.72E-6	-1.39E-3	2.17E-3
ETP-fw	CTUe	2.10E+0	1.55E-2	7.47E-2	2.19E+0	1.05E-2	1.32E-1	8.42E-4	-1.06E+0	1.27E+0
HTP-c	CTUh	3.35E-11	5.50E-13	3.98E-12	3.80E-11	3.75E-13	1.20E-11	1.95E-14	-1.84E-11	3.20E-11
HTP-nc	CTUh	7.76E-10	1.84E-11	8.26E-11	8.77E-10	1.25E-11	1.56E-10	4.70E-13	-4.45E-10	6.02E-10
SQP	Pt	1.85E+0	1.63E-2	8.62E-3	1.87E+0	1.11E-2	6.78E-2	2.04E-3	-3.08E+0	-1.13E+0
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	3.20E-1	2.73E-4	1.64E-1	4.84E-1	1.86E-4	4.17E-3	3.20E-5	-5.35E-1	-4.66E-2
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	3.20E-1	2.73E-4	1.64E-1	4.84E-1	1.86E-4	4.17E-3	3.20E-5	-5.35E-1	-4.66E-2
PENRE	MJ	2.94E+0	2.02E-2	5.16E-2	3.02E+0	1.38E-2	9.48E-2	8.44E-4	-1.48E+0	1.65E+0
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	2.94E+0	2.02E-2	5.16E-2	3.02E+0	1.38E-2	9.48E-2	8.44E-4	-1.48E+0	1.65E+0
PET	MJ	3.26E+0	2.05E-2	2.15E-1	3.50E+0	1.39E-2	9.90E-2	8.77E-4	-2.01E+0	1.60E+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	1.04E-3	2.16E-6	3.98E-4	1.43E-3	1.47E-6	6.87E-5	9.85E-7	-7.41E-4	7.65E-4

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	8.20E-7	4.87E-8	4.60E-8	9.15E-7	3.31E-8	1.66E-7	9.55E-10	-6.09E-7	5.06E-7
NHWD	kg	6.36E-3	1.18E-3	4.48E-4	7.99E-3	8.03E-4	4.57E-3	3.50E-3	-2.39E-3	1.45E-2
RWD	kg	3.49E-6	1.30E-7	4.91E-8	3.66E-6	8.81E-8	3.68E-7	5.21E-9	-1.35E-6	2.78E-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



Ecochain Technologies BV
H.J.E. Wenckebachweg 123, 1096 AM Amsterdam, The Netherlands
<https://www.ecochain.com>
+31 20 3035 777