

Environmental Profile

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

Ecochain v3.5.64



Product: 3067781 - SiTech+ Branch STEA 87,5° 125X125
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	1.94E+0	2.89E-2	1.39E-1	2.11E+0	2.52E-2	1.10E+0	1.22E-2	-1.18E+0	2.07E+0
GWP-f	kg CO2 eq	2.13E+0	2.89E-2	1.19E-1	2.28E+0	2.52E-2	8.70E-1	1.22E-2	-1.27E+0	1.91E+0
GWP-b	kg CO2 eq	-1.84E-1	1.75E-5	1.01E-2	-1.74E-1	1.53E-5	2.30E-1	1.07E-5	8.70E-2	1.43E-1
GWP-luluc	kg CO2 eq	1.20E-3	1.02E-5	1.01E-2	1.13E-2	8.92E-6	1.41E-4	2.06E-7	-9.49E-4	1.05E-2
ODP	kg CFC11 eq	8.22E-8	6.66E-9	1.20E-8	1.01E-7	5.81E-9	1.97E-8	3.06E-10	-5.87E-8	6.79E-8
AP	mol H+ eq	8.05E-3	1.65E-4	4.81E-4	8.69E-3	1.44E-4	8.26E-4	7.31E-6	-3.85E-3	5.82E-3
EP-fw	kg P eq	3.89E-5	2.38E-7	1.85E-6	4.10E-5	2.07E-7	4.12E-6	9.48E-9	-2.18E-5	2.35E-5
EP-m	kg N eq	1.43E-3	5.89E-5	8.12E-5	1.57E-3	5.14E-5	2.46E-4	5.33E-6	-7.24E-4	1.15E-3
EP-T	mol N eq	1.59E-2	6.49E-4	9.12E-4	1.74E-2	5.66E-4	2.71E-3	2.97E-5	-8.10E-3	1.26E-2
POCP	kg NMVOC eq	6.98E-3	1.85E-4	2.83E-4	7.45E-3	1.62E-4	8.47E-4	1.11E-5	-3.42E-3	5.04E-3
ADP-mm	kg Sb eq	8.56E-5	7.47E-7	2.90E-6	8.93E-5	6.52E-7	3.22E-6	7.33E-9	-1.05E-5	8.26E-5
ADP-f	MJ	7.30E+1	4.43E-1	1.57E+0	7.50E+1	3.87E-1	2.51E+0	2.24E-2	-3.81E+1	3.98E+1
WDP	m3 depriv.	1.44E+0	1.36E-3	5.55E-1	2.00E+0	1.19E-3	4.95E-2	1.02E-4	-7.62E-1	1.29E+0
PM	disease inc.	7.88E-8	2.61E-9	4.81E-9	8.62E-8	2.28E-9	1.33E-8	1.54E-10	-3.91E-8	6.29E-8
IR	kBq U-235 eq	5.22E-2	1.94E-3	1.46E-3	5.56E-2	1.69E-3	7.70E-3	1.04E-4	-2.42E-2	4.09E-2
ETP-fw	CTUe	2.46E+1	3.60E-1	2.47E+0	2.74E+1	3.14E-1	3.12E+0	2.04E-2	-1.22E+1	1.87E+1
HTP-c	CTUh	6.22E-10	1.28E-11	1.32E-10	7.67E-10	1.12E-11	3.37E-10	5.42E-13	-3.17E-10	7.99E-10
HTP-nc	CTUh	1.54E-8	4.29E-10	2.74E-9	1.86E-8	3.75E-10	4.27E-9	1.24E-11	-7.83E-9	1.54E-8
SQP	Pt	2.28E+1	3.79E-1	2.86E-1	2.35E+1	3.31E-1	1.98E+0	5.74E-2	-3.07E+1	-4.90E+0
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	4.19E+0	6.36E-3	5.43E+0	9.62E+0	5.55E-3	1.22E-1	8.81E-4	-5.42E+0	4.33E+0
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	4.19E+0	6.36E-3	5.43E+0	9.62E+0	5.55E-3	1.22E-1	8.81E-4	-5.42E+0	4.33E+0
PENRE	MJ	7.83E+1	4.71E-1	1.71E+0	8.05E+1	4.11E-1	2.67E+0	2.37E-2	-4.11E+1	4.25E+1
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	7.83E+1	4.71E-1	1.71E+0	8.05E+1	4.11E-1	2.67E+0	2.37E-2	-4.11E+1	4.25E+1
PET	MJ	8.25E+1	4.77E-1	7.14E+0	9.01E+1	4.16E-1	2.80E+0	2.46E-2	-4.65E+1	4.68E+1
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	2.33E-2	5.02E-5	1.32E-2	3.65E-2	4.38E-5	1.61E-3	2.76E-5	-1.30E-2	2.52E-2

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	1.32E-5	1.13E-6	1.52E-6	1.58E-5	9.90E-7	4.26E-6	2.69E-8	-1.17E-5	9.46E-6
NHWD	kg	1.09E-1	2.75E-2	1.49E-2	1.51E-1	2.40E-2	1.25E-1	9.86E-2	-4.28E-2	3.56E-1
RWD	kg	5.28E-5	3.02E-6	1.63E-6	5.74E-5	2.63E-6	9.82E-6	1.46E-7	-2.27E-5	4.73E-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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