

Environmental Profile

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

Ecochain v3.5.64



Product: 3067762 - SiTech+ Branch Reduced STEA 45° 125X110
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	2.11E+0	3.40E-2	1.52E-1	2.29E+0	2.76E-2	1.15E+0	1.32E-2	-1.29E+0	2.19E+0
GWP-f	kg CO2 eq	2.29E+0	3.40E-2	1.30E-1	2.45E+0	2.75E-2	9.16E-1	1.32E-2	-1.37E+0	2.04E+0
GWP-b	kg CO2 eq	-1.83E-1	2.06E-5	1.10E-2	-1.72E-1	1.67E-5	2.30E-1	1.16E-5	8.66E-2	1.45E-1
GWP-luluc	kg CO2 eq	1.22E-3	1.20E-5	1.10E-2	1.22E-2	9.75E-6	1.55E-4	2.23E-7	-9.70E-4	1.14E-2
ODP	kg CFC11 eq	7.93E-8	7.83E-9	1.30E-8	1.00E-7	6.35E-9	2.14E-8	3.33E-10	-6.18E-8	6.65E-8
AP	mol H+ eq	8.55E-3	1.94E-4	5.25E-4	9.27E-3	1.57E-4	8.97E-4	7.93E-6	-4.16E-3	6.18E-3
EP-fw	kg P eq	4.07E-5	2.80E-7	2.02E-6	4.30E-5	2.27E-7	4.51E-6	1.03E-8	-2.30E-5	2.47E-5
EP-m	kg N eq	1.52E-3	6.93E-5	8.86E-5	1.67E-3	5.61E-5	2.67E-4	5.65E-6	-7.78E-4	1.22E-3
EP-T	mol N eq	1.68E-2	7.63E-4	9.95E-4	1.86E-2	6.18E-4	2.93E-3	3.22E-5	-8.69E-3	1.35E-2
POCP	kg NMVOC eq	7.43E-3	2.18E-4	3.09E-4	7.96E-3	1.77E-4	9.19E-4	1.21E-5	-3.70E-3	5.37E-3
ADP-mm	kg Sb eq	7.84E-5	8.79E-7	3.17E-6	8.25E-5	7.12E-7	3.51E-6	7.96E-9	-1.10E-5	7.57E-5
ADP-f	MJ	7.90E+1	5.22E-1	1.71E+0	8.13E+1	4.23E-1	2.74E+0	2.43E-2	-4.16E+1	4.29E+1
WDP	m3 depriv.	1.56E+0	1.60E-3	6.05E-1	2.16E+0	1.30E-3	5.38E-2	1.11E-4	-8.23E-1	1.40E+0
PM	disease inc.	8.28E-8	3.07E-9	5.25E-9	9.11E-8	2.49E-9	1.45E-8	1.67E-10	-4.17E-8	6.66E-8
IR	kBq U-235 eq	5.34E-2	2.28E-3	1.60E-3	5.72E-2	1.85E-3	8.40E-3	1.13E-4	-2.57E-2	4.19E-2
ETP-fw	CTUe	2.49E+1	4.24E-1	2.70E+0	2.81E+1	3.43E-1	3.35E+0	2.17E-2	-1.26E+1	1.92E+1
HTP-c	CTUh	6.50E-10	1.51E-11	1.44E-10	8.09E-10	1.22E-11	3.68E-10	5.87E-13	-3.34E-10	8.56E-10
HTP-nc	CTUh	1.62E-8	5.05E-10	2.99E-9	1.97E-8	4.09E-10	4.65E-9	1.34E-11	-8.35E-9	1.65E-8
SQP	Pt	2.29E+1	4.46E-1	3.12E-1	2.36E+1	3.62E-1	2.16E+0	6.23E-2	-3.08E+1	-4.60E+0
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	4.25E+0	7.48E-3	5.92E+0	1.02E+1	6.06E-3	1.33E-1	9.54E-4	-5.46E+0	4.86E+0
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	4.25E+0	7.48E-3	5.92E+0	1.02E+1	6.06E-3	1.33E-1	9.54E-4	-5.46E+0	4.86E+0
PENRE	MJ	8.48E+1	5.54E-1	1.87E+0	8.72E+1	4.49E-1	2.92E+0	2.58E-2	-4.48E+1	4.58E+1
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	8.48E+1	5.54E-1	1.87E+0	8.72E+1	4.49E-1	2.92E+0	2.58E-2	-4.48E+1	4.58E+1
PET	MJ	8.90E+1	5.61E-1	7.79E+0	9.74E+1	4.55E-1	3.06E+0	2.67E-2	-5.02E+1	5.07E+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	2.48E-2	5.90E-5	1.44E-2	3.93E-2	4.78E-5	1.72E-3	3.00E-5	-1.39E-2	2.71E-2

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	1.35E-5	1.33E-6	1.66E-6	1.65E-5	1.08E-6	4.63E-6	2.91E-8	-1.23E-5	9.96E-6
NHWD	kg	1.13E-1	3.23E-2	1.62E-2	1.62E-1	2.62E-2	1.36E-1	1.07E-1	-4.55E-2	3.86E-1
RWD	kg	5.27E-5	3.55E-6	1.78E-6	5.80E-5	2.87E-6	1.07E-5	1.59E-7	-2.41E-5	4.77E-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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