

Environmental Profile

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

Ecochain v3.5.64



Product: 3067717 - SiTech+ Bend STB 30° 40
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	1.02E-1	2.52E-3	6.00E-3	1.11E-1	1.27E-3	6.96E-2	6.27E-4	-5.99E-2	1.22E-1
GWP-f	kg CO2 eq	1.16E-1	2.52E-3	5.14E-3	1.24E-1	1.27E-3	5.13E-2	6.27E-4	-6.79E-2	1.09E-1
GWP-b	kg CO2 eq	-1.45E-2	1.53E-6	4.34E-4	-1.40E-2	7.68E-7	1.83E-2	5.56E-7	8.00E-3	1.22E-2
GWP-luluc	kg CO2 eq	8.92E-5	8.91E-7	4.34E-4	5.24E-4	4.48E-7	7.04E-6	1.07E-8	-7.52E-5	4.56E-4
ODP	kg CFC11 eq	6.71E-9	5.80E-10	5.15E-10	7.81E-9	2.92E-10	1.04E-9	1.59E-11	-3.63E-9	5.53E-9
AP	mol H+ eq	4.66E-4	1.43E-5	2.07E-5	5.01E-4	7.21E-6	4.35E-5	3.80E-7	-2.13E-4	3.39E-4
EP-fw	kg P eq	2.46E-6	2.07E-8	7.98E-8	2.56E-6	1.04E-8	2.07E-7	4.93E-10	-1.43E-6	1.35E-6
EP-m	kg N eq	8.52E-5	5.13E-6	3.50E-6	9.39E-5	2.58E-6	1.32E-5	3.06E-7	-4.15E-5	6.85E-5
EP-T	mol N eq	9.37E-4	5.66E-5	3.93E-5	1.03E-3	2.84E-5	1.46E-4	1.54E-6	-4.67E-4	7.42E-4
POCP	kg NMVOC eq	3.99E-4	1.62E-5	1.22E-5	4.28E-4	8.13E-6	4.50E-5	5.76E-7	-1.87E-4	2.94E-4
ADP-mm	kg Sb eq	7.65E-6	6.52E-8	1.25E-7	7.84E-6	3.27E-8	1.66E-7	3.80E-10	-6.64E-7	7.38E-6
ADP-f	MJ	3.86E+0	3.87E-2	6.76E-2	3.97E+0	1.94E-2	1.27E-1	1.16E-3	-1.96E+0	2.15E+0
WDP	m3 depriv.	7.71E-2	1.19E-4	2.39E-2	1.01E-1	5.96E-5	2.54E-3	5.31E-6	-4.28E-2	6.09E-2
PM	disease inc.	4.85E-9	2.27E-10	2.07E-10	5.28E-9	1.14E-10	6.82E-10	7.96E-12	-2.37E-9	3.72E-9
IR	kBq U-235 eq	3.53E-3	1.69E-4	6.31E-5	3.76E-3	8.49E-5	3.95E-4	5.41E-6	-1.48E-3	2.76E-3
ETP-fw	CTUe	1.88E+0	3.14E-2	1.07E-1	2.01E+0	1.58E-2	1.73E-1	1.15E-3	-9.08E-1	1.30E+0
HTP-c	CTUh	3.89E-11	1.12E-12	5.69E-12	4.57E-11	5.61E-13	1.71E-11	2.83E-14	-1.99E-11	4.35E-11
HTP-nc	CTUh	9.30E-10	3.74E-11	1.18E-10	1.09E-9	1.88E-11	2.20E-10	6.65E-13	-4.77E-10	8.48E-10
SQP	Pt	1.76E+0	3.31E-2	1.23E-2	1.81E+0	1.66E-2	9.90E-2	2.97E-3	-2.55E+0	-6.26E-1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	3.10E-1	5.55E-4	2.34E-1	5.45E-1	2.79E-4	6.11E-3	4.62E-5	-4.43E-1	1.08E-1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	3.10E-1	5.55E-4	2.34E-1	5.45E-1	2.79E-4	6.11E-3	4.62E-5	-4.43E-1	1.08E-1
PENRE	MJ	4.14E+0	4.10E-2	7.37E-2	4.25E+0	2.06E-2	1.36E-1	1.23E-3	-2.11E+0	2.30E+0
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	4.14E+0	4.10E-2	7.37E-2	4.25E+0	2.06E-2	1.36E-1	1.23E-3	-2.11E+0	2.30E+0
PET	MJ	4.45E+0	4.16E-2	3.08E-1	4.80E+0	2.09E-2	1.42E-1	1.28E-3	-2.56E+0	2.41E+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	1.33E-3	4.37E-6	5.68E-4	1.90E-3	2.20E-6	9.13E-5	1.43E-6	-7.87E-4	1.21E-3

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	8.88E-7	9.89E-8	6.57E-8	1.05E-6	4.97E-8	2.25E-7	1.39E-9	-7.13E-7	6.15E-7
NHWD	kg	6.98E-3	2.40E-3	6.40E-4	1.00E-2	1.20E-3	6.46E-3	5.11E-3	-2.63E-3	2.02E-2
RWD	kg	3.84E-6	2.63E-7	7.01E-8	4.18E-6	1.32E-7	5.07E-7	7.58E-9	-1.42E-6	3.40E-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



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