

Environmental Profile

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

Ecochain v3.5.64



Product: 3067812 - SiTech+ Reducer STR TYPE A 40X32
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	7.41E-2	1.27E-3	5.40E-3	8.08E-2	9.89E-4	5.37E-2	4.81E-4	-4.64E-2	8.95E-2
GWP-f	kg CO2 eq	8.85E-2	1.26E-3	4.62E-3	9.44E-2	9.88E-4	3.62E-2	4.81E-4	-5.26E-2	7.94E-2
GWP-b	kg CO2 eq	-1.44E-2	7.68E-7	3.90E-4	-1.41E-2	6.00E-7	1.75E-2	4.24E-7	6.25E-3	9.69E-3
GWP-luluc	kg CO2 eq	6.82E-5	4.47E-7	3.90E-4	4.59E-4	3.50E-7	5.59E-6	8.16E-9	-6.04E-5	4.05E-4
ODP	kg CFC11 eq	4.22E-9	2.91E-10	4.64E-10	4.97E-9	2.28E-10	8.17E-10	1.21E-11	-2.71E-9	3.32E-9
AP	mol H+ eq	3.47E-4	7.20E-6	1.86E-5	3.72E-4	5.63E-6	3.41E-5	2.90E-7	-1.70E-4	2.42E-4
EP-fw	kg P eq	1.82E-6	1.04E-8	7.18E-8	1.90E-6	8.13E-9	1.64E-7	3.76E-10	-1.14E-6	9.27E-7
EP-m	kg N eq	6.43E-5	2.58E-6	3.15E-6	7.00E-5	2.01E-6	1.03E-5	2.19E-7	-3.32E-5	4.94E-5
EP-T	mol N eq	7.07E-4	2.84E-5	3.54E-5	7.70E-4	2.22E-5	1.13E-4	1.18E-6	-3.74E-4	5.34E-4
POCP	kg NMVOC eq	3.00E-4	8.12E-6	1.10E-5	3.19E-4	6.34E-6	3.52E-5	4.40E-7	-1.50E-4	2.11E-4
ADP-mm	kg Sb eq	4.25E-6	3.27E-8	1.13E-7	4.40E-6	2.56E-8	1.32E-7	2.90E-10	-4.73E-7	4.08E-6
ADP-f	MJ	2.95E+0	1.94E-2	6.08E-2	3.03E+0	1.52E-2	1.01E-1	8.86E-4	-1.54E+0	1.61E+0
WDP	m3 depriv.	5.86E-2	5.95E-5	2.15E-2	8.02E-2	4.65E-5	1.97E-3	4.06E-6	-3.40E-2	4.82E-2
PM	disease inc.	3.59E-9	1.14E-10	1.87E-10	3.89E-9	8.92E-11	5.41E-10	6.09E-12	-1.92E-9	2.60E-9
IR	kBq U-235 eq	2.40E-3	8.48E-5	5.68E-5	2.55E-3	6.63E-5	3.14E-4	4.13E-6	-1.17E-3	1.76E-3
ETP-fw	CTUe	1.39E+0	1.58E-2	9.60E-2	1.50E+0	1.23E-2	1.30E-1	8.29E-4	-7.21E-1	9.21E-1
HTP-c	CTUh	2.99E-11	5.61E-13	5.12E-12	3.56E-11	4.38E-13	1.36E-11	2.15E-14	-1.67E-11	3.30E-11
HTP-nc	CTUh	6.91E-10	1.88E-11	1.06E-10	8.16E-10	1.47E-11	1.73E-10	4.97E-13	-3.84E-10	6.20E-10
SQP	Pt	1.62E+0	1.66E-2	1.11E-2	1.65E+0	1.30E-2	7.88E-2	2.27E-3	-2.22E+0	-4.76E-1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	2.77E-1	2.78E-4	2.10E-1	4.88E-1	2.18E-4	4.85E-3	3.50E-5	-3.81E-1	1.12E-1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	2.77E-1	2.78E-4	2.10E-1	4.88E-1	2.18E-4	4.85E-3	3.50E-5	-3.81E-1	1.12E-1
PENRE	MJ	3.17E+0	2.06E-2	6.64E-2	3.25E+0	1.61E-2	1.08E-1	9.40E-4	-1.66E+0	1.72E+0
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	3.17E+0	2.06E-2	6.64E-2	3.25E+0	1.61E-2	1.08E-1	9.40E-4	-1.66E+0	1.72E+0
PET	MJ	3.44E+0	2.09E-2	2.77E-1	3.74E+0	1.63E-2	1.12E-1	9.75E-4	-2.04E+0	1.83E+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	9.86E-4	2.20E-6	5.11E-4	1.50E-3	1.72E-6	6.67E-5	1.10E-6	-6.23E-4	9.46E-4

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	6.51E-7	4.96E-8	5.91E-8	7.59E-7	3.88E-8	1.76E-7	1.06E-9	-5.45E-7	4.30E-7
NHWD	kg	5.28E-3	1.20E-3	5.76E-4	7.06E-3	9.40E-4	5.05E-3	3.90E-3	-2.18E-3	1.48E-2
RWD	kg	2.51E-6	1.32E-7	6.31E-8	2.71E-6	1.03E-7	4.03E-7	5.79E-9	-1.12E-6	2.10E-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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