

Environmental Profile

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

Ecochain v4.3.1



Product: 3061931 - Wafix PP Pipe WT 50 L=2 w/Socket
Unit: 1 piece
Manufacturer: Wavin - SE - Eskilstuna - Verified

LCA standard: EN15804+A2 (2019)
Standard database: Worldwide - Ecoinvent v 3.6 Cut-Off
Externally verified: Yes



Issue date: 29-11-2024
End of validity: 29-11-2029
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 - SE - Eskilstuna - Verified (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	1.231E+0	8.979E-2	3.698E-2	1.357E+0	1.535E-2	4.460E-1	7.230E-3	-7.140E-1	1.112E+0	
GWP-f	kg CO2 eq	1.228E+0	8.972E-2	3.054E-2	1.348E+0	1.534E-2	4.458E-1	7.229E-3	-7.130E-1	1.104E+0	
GWP-b	kg CO2 eq	2.168E-3	3.275E-5	2.890E-3	5.091E-3	5.877E-6	1.460E-4	5.225E-7	-9.312E-4	4.312E-3	
GWP-luluc	kg CO2 eq	3.611E-4	3.418E-5	3.550E-3	3.945E-3	5.429E-6	8.630E-5	1.245E-7	-1.406E-4	3.897E-3	
ODP	kg CFC11 eq	2.696E-8	1.970E-8	3.459E-9	5.013E-8	3.535E-9	1.124E-8	1.814E-10	-3.256E-8	3.253E-8	
AP	mol H+ eq	4.504E-3	6.573E-4	2.586E-4	5.420E-3	8.737E-5	4.725E-4	4.333E-6	-2.024E-3	3.960E-3	
EP-fw	kg P eq	1.970E-5	8.732E-7	5.636E-7	2.114E-5	1.262E-7	2.493E-6	5.689E-9	-8.310E-6	1.545E-5	
EP-m	kg N eq	7.460E-4	2.145E-4	7.665E-5	1.037E-3	3.126E-5	1.372E-4	2.806E-6	-3.572E-4	8.512E-4	
EP-T	mol N eq	8.461E-3	2.368E-3	8.410E-4	1.167E-2	3.445E-4	1.511E-3	1.758E-5	-3.951E-3	9.592E-3	
POCP	kg NMVOC eq	3.833E-3	6.635E-4	2.336E-4	4.730E-3	9.849E-5	4.778E-4	6.597E-6	-1.822E-3	3.491E-3	
ADP-mm	kg Sb eq	2.068E-5	2.179E-6	9.189E-7	2.378E-5	3.968E-7	1.875E-6	4.381E-9	-4.895E-6	2.116E-5	
ADP-f	MJ	4.265E+1	1.341E+0	3.034E-1	4.429E+1	2.354E-1	1.498E+0	1.325E-2	-2.233E+1	2.371E+1	
WDP	m3 depriv.	8.501E-1	4.652E-3	1.955E-1	1.050E+0	7.226E-4	2.931E-2	7.214E-5	-4.010E-1	6.795E-1	
PM	disease inc.	3.954E-8	7.754E-9	4.364E-9	5.166E-8	1.385E-9	7.783E-9	9.110E-11	-1.692E-8	4.400E-8	
IR	kBq U-235 eq	2.408E-2	5.628E-3	9.022E-4	3.061E-2	1.029E-3	4.519E-3	6.135E-5	-1.076E-2	2.547E-2	
ETP-fw	CTUe	7.643E+0	1.179E+0	8.459E-1	9.668E+0	1.912E-1	1.694E+0	1.109E-2	-3.034E+0	8.531E+0	
HTP-c	CTUh	3.755E-10	3.960E-11	3.341E-11	4.485E-10	6.804E-12	2.066E-10	3.277E-13	-1.236E-10	5.386E-10	
HTP-nc	CTUh	9.185E-9	1.277E-9	9.109E-10	1.137E-8	2.279E-10	2.528E-9	7.162E-12	-2.762E-9	1.137E-8	
SQP	Pt	1.744E+0	1.116E+0	3.989E-2	2.900E+0	2.014E-1	1.199E+0	3.398E-2	-6.299E-1	3.705E+0	
Resource use		Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	8.623E-1	1.639E-2	1.914E+0	2.792E+0	3.378E-3	7.398E-2	5.101E-4	-2.862E-1	2.584E+0	
PERM	MJ	0	0	0	0	0	0	0	0	0	
PERT	MJ	8.623E-1	1.639E-2	1.914E+0	2.792E+0	3.378E-3	7.398E-2	5.101E-4	-2.862E-1	2.584E+0	
PENRE	MJ	4.576E+1	1.424E+0	3.222E-1	4.751E+1	2.500E-1	1.596E+0	1.406E-2	-2.406E+1	2.531E+1	
PENRM	MJ	0	0	0	0	0	0	0	0	0	
PENRT	MJ	4.576E+1	1.424E+0	3.222E-1	4.751E+1	2.500E-1	1.596E+0	1.406E-2	-2.406E+1	2.531E+1	
PET	MJ	4.663E+1	1.441E+0	2.236E+0	5.030E+1	2.533E-1	1.670E+0	1.457E-2	-2.435E+1	2.789E+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	1.316E-2	1.586E-4	4.645E-3	1.796E-2	2.664E-5	8.625E-4	1.631E-5	-5.912E-3	1.296E-2	

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	6.570E-6	3.293E-6	4.620E-7	1.032E-5	6.021E-7	2.441E-6	1.601E-8	-5.794E-6	7.590E-6
NHWD	kg	5.624E-2	8.112E-2	1.416E-3	1.388E-1	1.459E-2	7.354E-2	5.833E-2	-1.833E-2	2.669E-1
RWD	kg	2.126E-5	8.836E-6	1.284E-6	3.138E-5	1.601E-6	5.728E-6	8.643E-8	-9.703E-6	2.909E-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
EET	MJ	0	0	0	0	0	0	0	0	0
EEE	MJ	0	0	0	0	0	0	0	0	0
Others	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
BIO-C-Product	kg C	0	0	0	0	0	0	0	0	0
BIO-C-Packaging	kg C	2.706E-8	0	0	2.706E-8	0	0	0	0	2.706E-8



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