

Environmental Profile

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

Ecochain v4.3.1



Product: 4055576 - Wavin XL Pipe BK 2000 SN8 L=6 S/SP EF
Unit: 1 piece
Manufacturer: Wavin - SE - Eskilstuna - KRAH pipes

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 - KRAH pipes (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	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 A5 Assembly / Construction installation process												D Reuse- Recovery- Recycling- potential				

Environmental impacts and parameters

GWP-total = EF EN15804+A2 Climate Change [kg CO2 eq]; **GWP-f** = EF Climate change - Fossil [kg CO2 eq]; **GWP-b** = EF EN15804+A2 Climate Change - Biogenic [kg CO2 eq]; **GWP-luluc** = EF EN15804+A2 Climate Change - Land use and LU change [kg CO2 eq]; **ODP** = EF Ozone depletion [kg CFC11 eq]; **AP** = EF Acidification [mol H+ eq]; **EP-fw** = EF Eutrophication, freshwater [kg P eq]; **EP-m** = EF Eutrophication, marine [kg N eq]; **EP-T** = EF Eutrophication, terrestrial [mol N eq]; **POCP** = EF Photochemical ozone formation [kg NMVOC eq]; **ADP-mm** = EF Resource use, minerals and metals [kg Sb eq]; **ADP-f** = EF Resource use, fossils [MJ]; **WDP** = EF Water use [m3 depriv.]; **PM** = EF Particulate matter [disease inc.]; **IR** = EF Ionising radiation [kBq U-235 eq]; **ETP-fw** = EF Ecotoxicity, freshwater [CTUe]; **HTP-c** = EF Human toxicity, cancer [CTUh]; **HTP-nc** = EF Human toxicity, non-cancer [CTUh]; **SQP** = EF Land use [Pt]; **PERE** = Use of renewable primary energy excluding renewable primary energy resources used as raw materials [MJ]; **PERM** = Use of renewable primary energy resources used as raw materials [MJ]; **PENRT** = Total use of renewable primary energy resources [MJ]; **PENRE** = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials [MJ]; **PENRM** = Use of non-renewable primary energy resources used as raw materials [MJ]; **PENRT** = Total use of non-renewable primary energy resources [MJ]; **PET** = Total energy [MJ]; **SM** = Use of secondary material [kg]; **RSF** = Use of renewable secondary fuels [MJ]; **NRSF** = Use of non-renewable secondary fuels [MJ]; **FW** = Use of net fresh water [m3]; **HWD** = Hazardous waste disposed [kg]; **NHWD** = Non-hazardous waste disposed [kg]; **RWD** = Radioactive waste disposed [kg]; **CRU** = Components for re-use [kg]; **MFR** = Materials for recycling [kg]; **MER** = Materials for energy recovery [kg]; **EE** = Exported energy [MJ]; **EET** = Exported energy thermic [MJ]; **EEE** = Exported energy electric [MJ]

Statement of Confidentiality

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Results

Environmental impact	Unit	A1	A1-A3	Total
GWP-total	kg CO2 eq	5.052E+3	5.052E+3	5.052E+3
GWP-f	kg CO2 eq	4.987E+3	4.987E+3	4.987E+3
GWP-b	kg CO2 eq	4.428E+1	4.428E+1	4.428E+1
GWP-luluc	kg CO2 eq	2.188E+0	2.188E+0	2.188E+0
ODP	kg CFC11 eq	4.193E-4	4.193E-4	4.193E-4
AP	mol H+ eq	1.940E+1	1.940E+1	1.940E+1
EP-fw	kg P eq	7.101E-2	7.101E-2	7.101E-2
EP-m	kg N eq	5.614E+0	5.614E+0	5.614E+0
EP-T	mol N eq	6.118E+1	6.118E+1	6.118E+1
POCP	kg NMVOC eq	1.948E+1	1.948E+1	1.948E+1
ADP-mm	kg Sb eq	5.792E-2	5.792E-2	5.792E-2
ADP-f	MJ	8.371E+4	8.371E+4	8.371E+4
WDP	m3 depriv.	4.218E+3	4.218E+3	4.218E+3
PM	disease inc.	1.356E-4	1.356E-4	1.356E-4
IR	kBq U-235 eq	1.019E+2	1.019E+2	1.019E+2
ETP-fw	CTUe	4.002E+4	4.002E+4	4.002E+4
HTP-c	CTUh	1.074E-6	1.074E-6	1.074E-6
HTP-nc	CTUh	3.051E-5	3.051E-5	3.051E-5
SQP	Pt	3.551E+3	3.551E+3	3.551E+3
Resource use	Unit	A1	A1-A3	Total
PERE	MJ	2.341E+3	2.341E+3	2.341E+3
PERM	MJ	7.921E+2	7.921E+2	7.921E+2
PERT	MJ	3.133E+3	3.133E+3	3.133E+3
PENRE	MJ	5.120E+4	5.120E+4	5.120E+4
PENRM	MJ	1.639E+4	1.639E+4	1.639E+4
PENRT	MJ	6.758E+4	6.758E+4	6.758E+4
PET	MJ	7.072E+4	7.072E+4	7.072E+4
SM	kg	1.016E+3	1.016E+3	1.016E+3
RSF	MJ	0	0	0
NRSF	MJ	0	0	0
FW	m3	7.918E+1	7.918E+1	7.918E+1

Output flows and waste categories	Unit	A1	A1-A3	Total
HWD	kg	8.936E+1	8.936E+1	8.936E+1
NHWD	kg	3.700E+3	3.700E+3	3.700E+3
RWD	kg	2.043E-1	2.043E-1	2.043E-1
CRU	kg	0	0	0
MFR	kg	1.181E+3	1.181E+3	1.181E+3
MER	kg	3.861E+2	3.861E+2	3.861E+2
EE	MJ	5.481E+3	5.481E+3	5.481E+3
EET	MJ	3.468E+3	3.468E+3	3.468E+3
EEE	MJ	2.014E+3	2.014E+3	2.014E+3



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