

# Environmental Profile

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

Ecochain v4.3.1



Product: 4055560 - Wavin XL Pipe BK 3000 SN2 L=6 S/SP Ring  
 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

A1 Raw material supply A2 Transport A3 Manufacturing

## Construction process stage

A4 Transport gate to site  
 A5 Assembly / Construction installation process

## Use stage

B1 Use B2 Maintenance B3 Repair B4 Replacement B5 Refurbishment  
 B6 Operational energy use B7 Operational water use

## End-of-Life stage

C1 De-construction demolition C2 Transport C3 Waste processing  
 C4 Disposal

## Benefits and loads beyond the system boundaries

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]; **PERT** = 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	6.559E+3	6.559E+3	6.559E+3
GWP-f	kg CO2 eq	6.476E+3	6.476E+3	6.476E+3
GWP-b	kg CO2 eq	5.749E+1	5.749E+1	5.749E+1
GWP-luluc	kg CO2 eq	2.840E+0	2.840E+0	2.840E+0
ODP	kg CFC11 eq	5.445E-4	5.445E-4	5.445E-4
AP	mol H+ eq	2.519E+1	2.519E+1	2.519E+1
EP-fw	kg P eq	9.221E-2	9.221E-2	9.221E-2
EP-m	kg N eq	7.290E+0	7.290E+0	7.290E+0
EP-T	mol N eq	7.944E+1	7.944E+1	7.944E+1
POCP	kg NMVOC eq	2.529E+1	2.529E+1	2.529E+1
ADP-mm	kg Sb eq	7.521E-2	7.521E-2	7.521E-2
ADP-f	MJ	1.087E+5	1.087E+5	1.087E+5
WDP	m3 depriv.	5.477E+3	5.477E+3	5.477E+3
PM	disease inc.	1.760E-4	1.760E-4	1.760E-4
IR	kBq U-235 eq	1.323E+2	1.323E+2	1.323E+2
ETP-fw	CTUe	5.197E+4	5.197E+4	5.197E+4
HTP-c	CTUh	1.395E-6	1.395E-6	1.395E-6
HTP-nc	CTUh	3.961E-5	3.961E-5	3.961E-5
SQP	Pt	4.611E+3	4.611E+3	4.611E+3
Resource use	Unit	A1	A1-A3	Total
PERE	MJ	3.040E+3	3.040E+3	3.040E+3
PERM	MJ	1.029E+3	1.029E+3	1.029E+3
PERT	MJ	4.068E+3	4.068E+3	4.068E+3
PENRE	MJ	6.648E+4	6.648E+4	6.648E+4
PENRM	MJ	2.128E+4	2.128E+4	2.128E+4
PENRT	MJ	8.776E+4	8.776E+4	8.776E+4
PET	MJ	9.182E+4	9.182E+4	9.182E+4
SM	kg	1.319E+3	1.319E+3	1.319E+3
RSF	MJ	0	0	0
NRSF	MJ	0	0	0
FW	m3	1.028E+2	1.028E+2	1.028E+2

Output flows and waste categories	Unit	A1	A1-A3	Total
HWD	kg	1.160E+2	1.160E+2	1.160E+2
NHWD	kg	4.804E+3	4.804E+3	4.804E+3
RWD	kg	2.652E-1	2.652E-1	2.652E-1
CRU	kg	0	0	0
MFR	kg	1.533E+3	1.533E+3	1.533E+3
MER	kg	5.013E+2	5.013E+2	5.013E+2
EE	MJ	7.118E+3	7.118E+3	7.118E+3
EET	MJ	4.503E+3	4.503E+3	4.503E+3
EEE	MJ	2.615E+3	2.615E+3	2.615E+3



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