

# Environmental Profile

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

Ecochain v4.3.1



Product: 3064792 - PE Pipe Cable YL 75 L=6 SRN DVK T  
 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



An Orbia business.

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	☑	☑	☑	☑									

## 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 Climate change [kg CO2 eq]; **GWP-f** = EF Climate change - Fossil [kg CO2 eq]; **GWP-b** = EF Climate change - Biogenic [kg CO2 eq]; **GWP-luluc** = EF 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]; **EET** = Exported energy thermic [MJ]; **EEE** = Exported energy electric [MJ]; **BIO-C-Product** = Biogenic C content, product [kg C]; **BIO-C-Packaging** = Biogenic C content, packaging [kg C]

## Statement of Confidentiality

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# Results

Environmental impact	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
GWP-total	kg CO2 eq	5.364E+0	2.896E-1	1.585E-1	5.812E+0	6.688E-2	2.202E+0	3.688E-2	-3.415E+0	4.702E+0
GWP-f	kg CO2 eq	5.352E+0	2.893E-1	1.309E-1	5.772E+0	6.683E-2	2.201E+0	3.687E-2	-3.408E+0	4.669E+0
GWP-b	kg CO2 eq	9.909E-3	8.439E-5	1.239E-2	2.238E-2	2.561E-5	6.358E-4	2.240E-6	-5.790E-3	1.725E-2
GWP-luluc	kg CO2 eq	1.952E-3	1.663E-4	1.522E-2	1.733E-2	2.365E-5	3.756E-4	5.401E-7	-1.264E-3	1.647E-2
ODP	kg CFC11 eq	1.548E-7	6.014E-8	1.482E-8	2.298E-7	1.540E-8	4.905E-8	7.890E-10	-1.755E-7	1.195E-7
AP	mol H+ eq	2.017E-2	6.642E-3	1.109E-3	2.792E-2	3.807E-4	2.063E-3	1.887E-5	-1.006E-2	2.033E-2
EP-fw	kg P eq	1.021E-4	1.806E-6	2.415E-6	1.063E-4	5.500E-7	1.085E-5	2.473E-8	-6.795E-5	4.977E-5
EP-m	kg N eq	3.443E-3	1.696E-3	3.285E-4	5.468E-3	1.362E-4	6.003E-4	1.323E-5	-1.826E-3	4.391E-3
EP-T	mol N eq	3.903E-2	1.884E-2	3.605E-3	6.147E-2	1.501E-3	6.606E-3	7.650E-5	-2.019E-2	4.947E-2
POCP	kg NMVOC eq	1.822E-2	4.941E-3	1.001E-3	2.416E-2	4.291E-4	2.086E-3	2.996E-5	-1.132E-2	1.539E-2
ADP-mm	kg Sb eq	8.558E-5	4.006E-6	3.938E-6	9.352E-5	1.729E-6	8.158E-6	1.901E-8	-2.228E-5	8.115E-5
ADP-f	MJ	1.813E+2	3.936E+0	1.300E+0	1.865E+2	1.026E+0	6.521E+0	5.764E-2	-1.018E+2	9.230E+1
WDP	m3 depriv.	4.212E+0	9.055E-3	8.380E-1	5.059E+0	3.148E-3	1.281E-1	2.985E-4	-2.865E+0	2.326E+0
PM	disease inc.	1.697E-7	1.501E-8	1.870E-8	2.034E-7	6.033E-9	3.387E-8	3.961E-10	-7.271E-8	1.710E-7
IR	kBq U-235 eq	1.317E-1	1.673E-2	3.867E-3	1.523E-1	4.484E-3	1.967E-2	2.680E-4	-9.734E-2	7.937E-2
ETP-fw	CTUe	3.759E+1	2.922E+0	3.626E+0	4.414E+1	8.331E-1	7.462E+0	5.077E-2	-1.691E+1	3.557E+1
HTP-c	CTUh	1.866E-9	1.504E-10	1.432E-10	2.160E-9	2.964E-11	8.958E-10	1.425E-12	-6.585E-10	2.428E-9
HTP-nc	CTUh	3.957E-8	2.745E-9	3.904E-9	4.622E-8	9.931E-10	1.118E-8	3.244E-11	-1.479E-8	4.363E-8
SQP	Pt	8.953E+0	1.677E+0	1.710E-1	1.080E+1	8.777E-1	5.215E+0	1.478E-1	-4.051E+0	1.299E+1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	3.467E+0	3.555E-2	8.201E+0	1.170E+1	1.472E-2	3.221E-1	2.261E-3	-2.205E+0	9.838E+0
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	3.467E+0	3.555E-2	8.201E+0	1.170E+1	1.472E-2	3.221E-1	2.261E-3	-2.205E+0	9.838E+0
PENRE	MJ	1.945E+2	4.179E+0	1.381E+0	2.000E+2	1.089E+0	6.947E+0	6.116E-2	-1.097E+2	9.845E+1
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	1.945E+2	4.179E+0	1.381E+0	2.000E+2	1.089E+0	6.947E+0	6.116E-2	-1.097E+2	9.845E+1
PET	MJ	1.979E+2	4.215E+0	9.582E+0	2.117E+2	1.104E+0	7.269E+0	6.342E-2	-1.119E+2	1.083E+2
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	6.737E-2	3.139E-4	1.991E-2	8.759E-2	1.161E-4	3.798E-3	7.109E-5	-4.081E-2	5.076E-2

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	3.030E-5	6.128E-6	1.980E-6	3.841E-5	2.624E-6	1.067E-5	6.950E-8	-3.077E-5	2.100E-5
NHWD	kg	2.451E-1	1.046E-1	6.069E-3	3.558E-1	6.359E-2	3.212E-1	2.537E-1	-1.004E-1	8.939E-1
RWD	kg	1.181E-4	2.677E-5	5.502E-6	1.504E-4	6.977E-6	2.492E-5	3.765E-7	-8.352E-5	9.918E-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	1.063E-7	0	0	1.063E-7	0	0	0	0	1.063E-7



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