

Environmental Profile

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

Ecochain v3.5.64



Product: 3064797 - PE Pipe Cable BK 110 L=6 SRN DVK
 Unit: 1 piece
 Manufacturer: Wavin - SE - Eskilstuna

LCA standard: EN15804+A2 (2019)
 Standard database: Worldwide - Ecoinvent v 3.6 Cut-Off
 Externally verified: Yes
 Issue date: 20-06-2022
 End of validity: 20-06-2027
 Verifier: Harry van Ewijk - SGS Search



Wavin offers double-walled cable conduits in several diameters and in both waterproof and non-waterproof versions. The corrugated outer wall ensures a high ring stiffness, while the smooth inner wall makes the pipes optimal for cable pulling.

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 (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 A5 Assembly / Construction installation process					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]; **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	A2	A3	A1-A3	C2	C3	C4	D	Total
GWP-total	kg CO2 eq	7.98E+0	6.56E-3	2.71E-1	8.25E+0	1.01E-1	3.88E+0	5.57E-2	-5.31E+0	6.99E+0
GWP-f	kg CO2 eq	8.24E+0	6.55E-3	1.96E-1	8.44E+0	1.01E-1	3.59E+0	5.57E-2	-5.29E+0	6.90E+0
GWP-b	kg CO2 eq	-2.64E-1	3.03E-6	5.16E-2	-2.12E-1	6.12E-5	2.90E-1	4.18E-5	-1.89E-2	5.94E-2
GWP-luluc	kg CO2 eq	3.22E-3	2.40E-6	2.28E-2	2.60E-2	3.57E-5	5.70E-4	8.11E-7	-1.27E-3	2.54E-2
ODP	kg CFC11 eq	2.66E-7	1.45E-9	2.22E-8	2.89E-7	2.32E-8	7.51E-8	1.19E-9	-2.65E-7	1.23E-7
AP	mol H+ eq	3.24E-2	3.80E-5	1.66E-3	3.41E-2	5.74E-4	3.17E-3	2.85E-5	-1.45E-2	2.34E-2
EP-fw	kg P eq	1.60E-4	6.61E-8	3.62E-6	1.64E-4	8.29E-7	1.65E-5	3.72E-8	-6.58E-5	1.16E-4
EP-m	kg N eq	5.42E-3	1.34E-5	4.93E-4	5.92E-3	2.05E-4	9.31E-4	2.00E-5	-2.68E-3	4.39E-3
EP-T	mol N eq	6.24E-2	1.48E-4	5.40E-3	6.80E-2	2.26E-3	1.02E-2	1.15E-4	-2.99E-2	5.07E-2
POCP	kg NMVOC eq	2.79E-2	4.22E-5	1.50E-3	2.95E-2	6.47E-4	3.23E-3	4.52E-5	-1.38E-2	1.95E-2
ADP-mm	kg Sb eq	1.59E-4	1.66E-7	5.90E-6	1.65E-4	2.61E-6	1.24E-5	2.87E-8	-3.33E-5	1.47E-4
ADP-f	MJ	2.72E+2	9.88E-2	1.95E+0	2.74E+2	1.55E+0	9.93E+0	8.70E-2	-1.55E+2	1.31E+2
WDP	m3 depriv.	6.50E+0	3.54E-4	1.26E+0	7.75E+0	4.75E-3	1.94E-1	4.36E-4	-2.96E+0	4.99E+0
PM	disease inc.	2.74E-7	5.89E-10	2.80E-8	3.03E-7	9.09E-9	5.18E-8	5.98E-10	-1.18E-7	2.47E-7
IR	kBq U-235 eq	2.03E-1	4.14E-4	5.80E-3	2.09E-1	6.76E-3	3.00E-2	4.05E-4	-9.35E-2	1.53E-1
ETP-fw	CTUe	6.47E+1	8.81E-2	5.44E+0	7.02E+1	1.26E+0	1.13E+1	7.67E-2	-2.42E+1	5.87E+1
HTP-c	CTUh	3.24E-9	2.86E-12	2.15E-10	3.46E-9	4.47E-11	1.39E-9	2.14E-12	-1.16E-9	3.73E-9
HTP-nc	CTUh	6.72E-8	9.64E-11	5.85E-9	7.32E-8	1.50E-9	1.72E-8	4.89E-11	-1.94E-8	7.25E-8
SQP	Pt	3.85E+1	8.57E-2	2.56E-1	3.88E+1	1.32E+0	7.95E+0	2.23E-1	-2.56E+1	2.28E+1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	8.78E+0	1.24E-3	1.23E+1	2.11E+1	2.22E-2	4.89E-1	3.42E-3	-5.28E+0	1.63E+1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	8.78E+0	1.24E-3	1.23E+1	2.11E+1	2.22E-2	4.89E-1	3.42E-3	-5.28E+0	1.63E+1
PENRE	MJ	2.92E+2	1.05E-1	2.07E+0	2.94E+2	1.64E+0	1.06E+1	9.23E-2	-1.68E+2	1.39E+2
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	2.92E+2	1.05E-1	2.07E+0	2.94E+2	1.64E+0	1.06E+1	9.23E-2	-1.68E+2	1.39E+2
PET	MJ	3.01E+2	1.06E-1	1.44E+1	3.15E+2	1.66E+0	1.11E+1	9.58E-2	-1.73E+2	1.55E+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	1.05E-1	1.20E-5	2.99E-2	1.35E-1	1.75E-4	5.76E-3	1.07E-4	-4.55E-2	9.55E-2

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	5.45E-5	2.50E-7	2.97E-6	5.77E-5	3.95E-6	1.63E-5	1.05E-7	-5.27E-5	2.54E-5
NHWD	kg	4.28E-1	6.27E-3	9.10E-3	4.43E-1	9.58E-2	5.02E-1	3.83E-1	-1.38E-1	1.29E+0
RWD	kg	1.83E-4	6.49E-7	8.25E-6	1.92E-4	1.05E-5	3.81E-5	5.69E-7	-8.79E-5	1.53E-4
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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