

Environmental Profile

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

Ecochain v3.5.64



Product: 3064786 - PE Pipe Cable GN 50 L=3 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

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]; **EE** = Exported energy [MJ]; **EET** = Exported energy thermic [MJ]; **EEE** = Exported energy electric [MJ]

Statement of Confidentiality

This document and supporting material contain confidential and proprietary business information of Wavin - SE - Eskilstuna. These materials may be printed or (photo) copied or otherwise used only with the written consent of Wavin - SE - Eskilstuna.

Results

Environmental impact	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
GWP-total	kg CO2 eq	1.38E+0	7.75E-2	4.56E-2	1.50E+0	1.77E-2	5.75E-1	9.77E-3	-8.90E-1	1.22E+0
GWP-f	kg CO2 eq	1.37E+0	7.74E-2	3.31E-2	1.49E+0	1.77E-2	5.75E-1	9.77E-3	-8.86E-1	1.20E+0
GWP-b	kg CO2 eq	7.19E-3	-2.52E-6	8.71E-3	1.59E-2	1.07E-5	-7.17E-4	7.33E-6	-3.29E-3	1.19E-2
GWP-luluc	kg CO2 eq	4.51E-4	4.46E-5	3.85E-3	4.34E-3	6.26E-6	9.96E-5	1.44E-7	-1.96E-4	4.25E-3
ODP	kg CFC11 eq	3.85E-8	1.61E-8	3.75E-9	5.83E-8	4.08E-9	1.30E-8	2.09E-10	-4.21E-8	3.35E-8
AP	mol H+ eq	5.10E-3	1.79E-3	2.80E-4	7.17E-3	1.01E-4	5.47E-4	5.01E-6	-2.47E-3	5.35E-3
EP-fw	kg P eq	2.47E-5	4.81E-7	6.11E-7	2.58E-5	1.46E-7	2.88E-6	6.57E-9	-1.12E-5	1.77E-5
EP-m	kg N eq	8.64E-4	4.56E-4	8.31E-5	1.40E-3	3.61E-5	1.59E-4	3.50E-6	-4.50E-4	1.15E-3
EP-T	mol N eq	9.81E-3	5.07E-3	9.11E-4	1.58E-2	3.97E-4	1.75E-3	2.03E-5	-5.01E-3	1.29E-2
POCP	kg NMVOC eq	4.60E-3	1.33E-3	2.53E-4	6.18E-3	1.14E-4	5.53E-4	7.95E-6	-2.35E-3	4.51E-3
ADP-mm	kg Sb eq	1.97E-5	1.07E-6	9.96E-7	2.17E-5	4.58E-7	2.17E-6	5.05E-9	-5.71E-6	1.87E-5
ADP-f	MJ	4.74E+1	1.05E+0	3.29E-1	4.88E+1	2.72E-1	1.73E+0	1.53E-2	-2.65E+1	2.43E+1
WDP	m3 depriv.	1.09E+0	2.41E-3	2.12E-1	1.30E+0	8.33E-4	3.39E-2	8.06E-5	-5.15E-1	8.22E-1
PM	disease inc.	4.29E-8	4.00E-9	4.73E-9	5.16E-8	1.60E-9	8.99E-9	1.05E-10	-1.97E-8	4.26E-8
IR	kBq U-235 eq	3.32E-2	4.48E-3	9.78E-4	3.87E-2	1.19E-3	5.22E-3	7.11E-5	-1.58E-2	2.93E-2
ETP-fw	CTUe	8.94E+0	7.80E-1	9.17E-1	1.06E+1	2.20E-1	1.97E+0	1.35E-2	-4.02E+0	8.82E+0
HTP-c	CTUh	5.04E-10	4.03E-11	3.62E-11	5.80E-10	7.85E-12	2.38E-10	3.79E-13	-1.83E-10	6.44E-10
HTP-nc	CTUh	1.03E-8	7.32E-10	9.87E-10	1.20E-8	2.63E-10	2.96E-9	8.61E-12	-3.05E-9	1.22E-8
SQP	Pt	1.95E+0	4.45E-1	4.32E-2	2.44E+0	2.32E-1	1.38E+0	3.92E-2	-8.46E-1	3.25E+0
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	8.36E-1	9.48E-3	2.07E+0	2.92E+0	3.90E-3	8.55E-2	5.99E-4	-3.81E-1	2.63E+0
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	8.36E-1	9.48E-3	2.07E+0	2.92E+0	3.90E-3	8.55E-2	5.99E-4	-3.81E-1	2.63E+0
PENRE	MJ	5.08E+1	1.12E+0	3.49E-1	5.23E+1	2.88E-1	1.84E+0	1.62E-2	-2.86E+1	2.59E+1
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	5.08E+1	1.12E+0	3.49E-1	5.23E+1	2.88E-1	1.84E+0	1.62E-2	-2.86E+1	2.59E+1
PET	MJ	5.17E+1	1.13E+0	2.42E+0	5.52E+1	2.92E-1	1.93E+0	1.68E-2	-2.90E+1	2.85E+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	1.68E-2	8.36E-5	5.03E-3	2.19E-2	3.07E-5	9.97E-4	1.88E-5	-7.87E-3	1.50E-2

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	7.87E-6	1.63E-6	5.01E-7	1.00E-5	6.94E-7	2.83E-6	1.84E-8	-8.36E-6	5.18E-6
NHWD	kg	5.92E-2	2.77E-2	1.53E-3	8.84E-2	1.68E-2	8.51E-2	6.73E-2	-2.21E-2	2.35E-1
RWD	kg	2.98E-5	7.16E-6	1.39E-6	3.83E-5	1.85E-6	6.61E-6	9.99E-8	-1.48E-5	3.21E-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
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



Ecochain Technologies BV
H.J.E. Wenckebachweg 123, 1096 AM Amsterdam, The Netherlands
<https://www.ecochain.com>
+31 20 3035 777