Environmental Profile

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

Ecochain v3.5.64

Product:	3077300 - PP Pipe Cable SRS YL 50 SN8 L=6 S/CH DIN
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

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

Results

Environmental impact	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
GWP-total	kg CO2 eq	3.47E+0	1.35E-1	1.22E-1	3.72E+0	4.55E-2	1.32E+0	2.14E-2	-2.11E+0	3.00E+0
GWP-f	kg CO2 eq	3.45E+0	1.34E-1	8.88E-2	3.67E+0	4.55E-2	1.32E+0	2.14E-2	-2.10E+0	2.96E+0
GWP-b	kg CO2 eq	1.57E-2	3.56E-5	2.33E-2	3.91E-2	2.76E-5	-1.82E-3	1.87E-5	-7.39E-3	2.99E-2
GWP-luluc	kg CO2 eq	8.84E-4	5.92E-5	1.03E-2	1.13E-2	1.61E-5	2.55E-4	3.64E-7	-4.08E-4	1.11E-2
ODP	kg CFC11 eq	6.10E-8	2.89E-8	1.01E-8	1.00E-7	1.05E-8	3.32E-8	5.37E-10	-7.82E-8	6.59E-8
AP	mol H+ eq	1.22E-2	1.82E-3	7.52E-4	1.48E-2	2.59E-4	1.39E-3	1.28E-5	-5.92E-3	1.06E-2
EP-fw	kg P eq	5.00E-5	1.11E-6	1.64E-6	5.28E-5	3.74E-7	7.36E-6	1.67E-8	-2.32E-5	3.73E-5
EP-m	kg N eq	2.02E-3	5.12E-4	2.23E-4	2.76E-3	9.27E-5	4.05E-4	8.36E-6	-1.05E-3	2.22E-3
EP-T	mol N eq	2.28E-2	5.67E-3	2.44E-3	3.10E-2	1.02E-3	4.46E-3	5.21E-5	-1.16E-2	2.49E-2
POCP	kg NMVOC eq	1.06E-2	1.52E-3	6.79E-4	1.28E-2	2.92E-4	1.41E-3	1.95E-5	-5.35E-3	9.19E-3
ADP-mm	kg Sb eq	4.75E-5	2.69E-6	2.67E-6	5.28E-5	1.18E-6	5.52E-6	1.29E-8	-1.40E-5	4.56E-5
ADP-f	MJ	1.23E+2	1.94E+0	8.82E-1	1.26E+2	6.98E-1	4.43E+0	3.92E-2	-6.65E+1	6.49E+1
WDP	m3 depriv.	2.43E+0	5.82E-3	5.68E-1	3.01E+0	2.14E-3	8.69E-2	1.97E-4	-1.15E+0	1.94E+0
PM	disease inc.	1.07E-7	9.77E-9	1.27E-8	1.29E-7	4.10E-9	2.30E-8	2.70E-10	-4.95E-8	1.07E-7
IR	kBq U-235 eq	6.24E-2	8.18E-3	2.62E-3	7.32E-2	3.05E-3	1.33E-2	1.82E-4	-3.09E-2	5.89E-2
ETP-fw	CTUe	1.78E+1	1.60E+0	2.46E+0	2.19E+1	5.67E-1	4.99E+0	3.29E-2	-8.22E+0	1.92E+1
HTP-c	CTUh	7.74E-10	6.22E-11	9.71E-11	9.33E-10	2.02E-11	6.02E-10	9.58E-13	-3.51E-10	1.21E-9
HTP-nc	CTUh	2.18E-8	1.65E-9	2.65E-9	2.61E-8	6.75E-10	7.44E-9	2.11E-11	-9.96E-9	2.43E-8
SQP	Pt	4.16E+0	1.32E+0	1.16E-1	5.59E+0	5.97E-1	3.54E+0	1.01E-1	-1.78E+0	8.04E+0
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	1.75E+0	2.12E-2	5.56E+0	7.34E+0	1.00E-2	2.18E-1	1.52E-3	-8.26E-1	6.74E+0
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	1.75E+0	2.12E-2	5.56E+0	7.34E+0	1.00E-2	2.18E-1	1.52E-3	-8.26E-1	6.74E+0
PENRE	MJ	1.32E+2	2.06E+0	9.37E-1	1.35E+2	7.41E-1	4.72E+0	4.16E-2	-7.16E+1	6.93E+1
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	1.32E+2	2.06E+0	9.37E-1	1.35E+2	7.41E-1	4.72E+0	4.16E-2	-7.16E+1	6.93E+1
PET	MJ	1.34E+2	2.08E+0	6.50E+0	1.43E+2	7.51E-1	4.94E+0	4.31E-2	-7.25E+1	7.61E+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	3.64E-2	2.00E-4	1.35E-2	5.01E-2	7.90E-5	2.55E-3	4.84E-5	-1.72E-2	3.55E-2

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	1.43E-5	4.10E-6	1.34E-6	1.97E-5	1.78E-6	7.19E-6	4.73E-8	-1.53E-5	1.34E-5
NHWD	kg	1.29E-1	9.27E-2	4.12E-3	2.26E-1	4.33E-2	2.17E-1	1.73E-1	-5.12E-2	6.08E-1
RWD	kg	5.41E-5	1.29E-5	3.73E-6	7.07E-5	4.75E-6	1.69E-5	2.56E-7	-2.78E-5	6.48E-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