

Environmental Profile

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

Ecochain v3.5.64



Product: 3063709 - PP Pipe Cableduct SW RD 160 SN8 L=6
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					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]

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Results

Environmental impact	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
GWP-total	kg CO2 eq	3.29E+1	1.28E+0	1.16E+0	3.54E+1	4.32E-1	1.25E+1	2.04E-1	-2.01E+1	2.85E+1
GWP-f	kg CO2 eq	3.28E+1	1.28E+0	8.39E-1	3.49E+1	4.32E-1	1.25E+1	2.04E-1	-2.00E+1	2.81E+1
GWP-b	kg CO2 eq	1.50E-1	3.38E-4	2.21E-1	3.71E-1	2.62E-4	-1.73E-2	1.77E-4	-7.02E-2	2.84E-1
GWP-luluc	kg CO2 eq	8.38E-3	5.63E-4	9.76E-2	1.07E-1	1.53E-4	2.42E-3	3.46E-6	-3.88E-3	1.05E-1
ODP	kg CFC11 eq	5.73E-7	2.75E-7	9.51E-8	9.43E-7	9.95E-8	3.15E-7	5.11E-9	-7.39E-7	6.24E-7
AP	mol H+ eq	1.16E-1	1.73E-2	7.11E-3	1.41E-1	2.46E-3	1.32E-2	1.22E-4	-5.63E-2	1.00E-1
EP-fw	kg P eq	4.74E-4	1.06E-5	1.55E-5	5.00E-4	3.55E-6	6.99E-5	1.59E-7	-2.21E-4	3.54E-4
EP-m	kg N eq	1.92E-2	4.87E-3	2.11E-3	2.62E-2	8.80E-4	3.85E-3	7.93E-5	-9.94E-3	2.11E-2
EP-T	mol N eq	2.17E-1	5.39E-2	2.31E-2	2.94E-1	9.70E-3	4.24E-2	4.95E-4	-1.10E-1	2.37E-1
POCP	kg NMVOC eq	1.01E-1	1.45E-2	6.42E-3	1.22E-1	2.77E-3	1.34E-2	1.86E-4	-5.08E-2	8.73E-2
ADP-mm	kg Sb eq	4.40E-4	2.55E-5	2.53E-5	4.91E-4	1.12E-5	5.25E-5	1.23E-7	-1.33E-4	4.22E-4
ADP-f	MJ	1.17E+3	1.84E+1	8.34E+0	1.20E+3	6.63E+0	4.21E+1	3.73E-1	-6.32E+2	6.17E+2
WDP	m3 depriv.	2.31E+1	5.53E-2	5.37E+0	2.85E+1	2.03E-2	8.25E-1	1.86E-3	-1.09E+1	1.84E+1
PM	disease inc.	1.01E-6	9.29E-8	1.20E-7	1.23E-6	3.90E-8	2.18E-7	2.56E-9	-4.71E-7	1.01E-6
IR	kBq U-235 eq	5.91E-1	7.78E-2	2.48E-2	6.94E-1	2.90E-2	1.27E-1	1.73E-3	-2.93E-1	5.58E-1
ETP-fw	CTUe	1.69E+2	1.52E+1	2.33E+1	2.07E+2	5.38E+0	4.74E+1	3.12E-1	-7.80E+1	1.82E+2
HTP-c	CTUh	7.34E-9	5.91E-10	9.18E-10	8.85E-9	1.92E-10	5.72E-9	9.10E-12	-3.34E-9	1.14E-8
HTP-nc	CTUh	2.07E-7	1.57E-8	2.50E-8	2.48E-7	6.42E-9	7.07E-8	2.01E-10	-9.46E-8	2.30E-7
SQP	Pt	3.93E+1	1.25E+1	1.10E+0	5.29E+1	5.67E+0	3.36E+1	9.57E-1	-1.69E+1	7.62E+1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	1.66E+1	2.02E-1	5.26E+1	6.94E+1	9.51E-2	2.07E+0	1.44E-2	-7.85E+0	6.38E+1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	1.66E+1	2.02E-1	5.26E+1	6.94E+1	9.51E-2	2.07E+0	1.44E-2	-7.85E+0	6.38E+1
PENRE	MJ	1.26E+3	1.96E+1	8.86E+0	1.29E+3	7.04E+0	4.48E+1	3.96E-1	-6.81E+2	6.59E+2
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	1.26E+3	1.96E+1	8.86E+0	1.29E+3	7.04E+0	4.48E+1	3.96E-1	-6.81E+2	6.59E+2
PET	MJ	1.28E+3	1.98E+1	6.15E+1	1.36E+3	7.14E+0	4.69E+1	4.10E-1	-6.89E+2	7.23E+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	3.45E-1	1.90E-3	1.28E-1	4.75E-1	7.50E-4	2.43E-2	4.60E-4	-1.64E-1	3.36E-1

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	1.35E-4	3.90E-5	1.27E-5	1.87E-4	1.70E-5	6.83E-5	4.49E-7	-1.45E-4	1.27E-4
NHWD	kg	1.22E+0	8.81E-1	3.89E-2	2.14E+0	4.11E-1	2.06E+0	1.64E+0	-4.86E-1	5.77E+0
RWD	kg	5.11E-4	1.23E-4	3.53E-5	6.69E-4	4.51E-5	1.61E-4	2.43E-6	-2.64E-4	6.13E-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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