

Environmental Profile

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

Ecochain v3.5.64



Product: 3063772 - PP Pipe Cableduct SW RD 160 SN4 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	2.71E+1	1.05E+0	9.71E-1	2.92E+1	3.56E-1	1.03E+1	1.68E-1	-1.65E+1	2.35E+1
GWP-f	kg CO2 eq	2.70E+1	1.05E+0	7.04E-1	2.88E+1	3.56E-1	1.03E+1	1.68E-1	-1.65E+1	2.32E+1
GWP-b	kg CO2 eq	1.23E-1	2.78E-4	1.85E-1	3.09E-1	2.16E-4	-1.43E-2	1.46E-4	-5.78E-2	2.37E-1
GWP-luluc	kg CO2 eq	6.91E-3	4.64E-4	8.18E-2	8.92E-2	1.26E-4	2.00E-3	2.85E-6	-3.19E-3	8.81E-2
ODP	kg CFC11 eq	4.72E-7	2.27E-7	7.97E-8	7.79E-7	8.20E-8	2.60E-7	4.21E-9	-6.09E-7	5.16E-7
AP	mol H+ eq	9.57E-2	1.43E-2	5.96E-3	1.16E-1	2.03E-3	1.09E-2	1.00E-4	-4.64E-2	8.26E-2
EP-fw	kg P eq	3.91E-4	8.73E-6	1.30E-5	4.13E-4	2.93E-6	5.76E-5	1.31E-7	-1.82E-4	2.92E-4
EP-m	kg N eq	1.58E-2	4.01E-3	1.77E-3	2.16E-2	7.25E-4	3.17E-3	6.54E-5	-8.19E-3	1.74E-2
EP-T	mol N eq	1.79E-1	4.44E-2	1.94E-2	2.43E-1	7.99E-3	3.49E-2	4.07E-4	-9.06E-2	1.95E-1
POCP	kg NMVOC eq	8.31E-2	1.19E-2	5.38E-3	1.00E-1	2.29E-3	1.10E-2	1.53E-4	-4.19E-2	7.20E-2
ADP-mm	kg Sb eq	3.65E-4	2.10E-5	2.12E-5	4.07E-4	9.21E-6	4.33E-5	1.01E-7	-1.09E-4	3.50E-4
ADP-f	MJ	9.67E+2	1.52E+1	6.99E+0	9.89E+2	5.46E+0	3.47E+1	3.07E-1	-5.21E+2	5.09E+2
WDP	m3 depriv.	1.90E+1	4.56E-2	4.51E+0	2.36E+1	1.68E-2	6.80E-1	1.54E-3	-9.02E+0	1.53E+1
PM	disease inc.	8.35E-7	7.65E-8	1.01E-7	1.01E-6	3.21E-8	1.80E-7	2.11E-9	-3.88E-7	8.38E-7
IR	kBq U-235 eq	4.87E-1	6.41E-2	2.08E-2	5.72E-1	2.39E-2	1.04E-1	1.42E-3	-2.42E-1	4.60E-1
ETP-fw	CTUe	1.39E+2	1.25E+1	1.95E+1	1.71E+2	4.44E+0	3.91E+1	2.57E-1	-6.43E+1	1.51E+2
HTP-c	CTUh	6.05E-9	4.87E-10	7.70E-10	7.31E-9	1.58E-10	4.71E-9	7.49E-12	-2.75E-9	9.44E-9
HTP-nc	CTUh	1.71E-7	1.30E-8	2.10E-8	2.05E-7	5.29E-9	5.82E-8	1.65E-10	-7.79E-8	1.90E-7
SQP	Pt	3.25E+1	1.03E+1	9.20E-1	4.37E+1	4.67E+0	2.77E+1	7.88E-1	-1.40E+1	6.29E+1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	1.37E+1	1.66E-1	4.41E+1	5.80E+1	7.84E-2	1.71E+0	1.19E-2	-6.46E+0	5.33E+1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	1.37E+1	1.66E-1	4.41E+1	5.80E+1	7.84E-2	1.71E+0	1.19E-2	-6.46E+0	5.33E+1
PENRE	MJ	1.04E+3	1.61E+1	7.43E+0	1.06E+3	5.80E+0	3.69E+1	3.26E-1	-5.61E+2	5.43E+2
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	1.04E+3	1.61E+1	7.43E+0	1.06E+3	5.80E+0	3.69E+1	3.26E-1	-5.61E+2	5.43E+2
PET	MJ	1.05E+3	1.63E+1	5.15E+1	1.12E+3	5.88E+0	3.86E+1	3.38E-1	-5.67E+2	5.96E+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	2.84E-1	1.56E-3	1.07E-1	3.93E-1	6.18E-4	2.00E-2	3.79E-4	-1.35E-1	2.79E-1

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	1.11E-4	3.21E-5	1.07E-5	1.54E-4	1.40E-5	5.63E-5	3.70E-7	-1.20E-4	1.05E-4
NHWD	kg	1.01E+0	7.26E-1	3.26E-2	1.77E+0	3.39E-1	1.70E+0	1.35E+0	-4.01E-1	4.76E+0
RWD	kg	4.21E-4	1.01E-4	2.96E-5	5.52E-4	3.72E-5	1.32E-4	2.01E-6	-2.17E-4	5.06E-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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