

Environmental Profile

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

Ecochain v3.5.64



Product: 3063692 - PP Bend Cableduct 15° RD 160 R=2000
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	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	A3	A1-A3	C2	C3	C4	D	Total
GWP-total	kg CO2 eq	2.53E-1	2.53E-1	0	0	0	0	2.53E-1
GWP-f	kg CO2 eq	1.84E-1	1.84E-1	0	0	0	0	1.84E-1
GWP-b	kg CO2 eq	4.83E-2	4.83E-2	0	0	0	0	4.83E-2
GWP-luluc	kg CO2 eq	2.14E-2	2.14E-2	0	0	0	0	2.14E-2
ODP	kg CFC11 eq	2.08E-8	2.08E-8	0	0	0	0	2.08E-8
AP	mol H+ eq	1.56E-3	1.56E-3	0	0	0	0	1.56E-3
EP-fw	kg P eq	3.39E-6	3.39E-6	0	0	0	0	3.39E-6
EP-m	kg N eq	4.61E-4	4.61E-4	0	0	0	0	4.61E-4
EP-T	mol N eq	5.06E-3	5.06E-3	0	0	0	0	5.06E-3
POCP	kg NMVOC eq	1.41E-3	1.41E-3	0	0	0	0	1.41E-3
ADP-mm	kg Sb eq	5.53E-6	5.53E-6	0	0	0	0	5.53E-6
ADP-f	MJ	1.82E+0	1.82E+0	0	0	0	0	1.82E+0
WDP	m3 depriv.	1.18E+0	1.18E+0	0	0	0	0	1.18E+0
PM	disease inc.	2.62E-8	2.62E-8	0	0	0	0	2.62E-8
IR	kBq U-235 eq	5.43E-3	5.43E-3	0	0	0	0	5.43E-3
ETP-fw	CTUe	5.09E+0	5.09E+0	0	0	0	0	5.09E+0
HTP-c	CTUh	2.01E-10	2.01E-10	0	0	0	0	2.01E-10
HTP-nc	CTUh	5.48E-9	5.48E-9	0	0	0	0	5.48E-9
SQP	Pt	2.40E-1	2.40E-1	0	0	0	0	2.40E-1
Resource use	Unit	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	1.15E+1	1.15E+1	0	0	0	0	1.15E+1
PERM	MJ	0	0	0	0	0	0	0
PERT	MJ	1.15E+1	1.15E+1	0	0	0	0	1.15E+1
PENRE	MJ	1.94E+0	1.94E+0	0	0	0	0	1.94E+0
PENRM	MJ	0	0	0	0	0	0	0
PENRT	MJ	1.94E+0	1.94E+0	0	0	0	0	1.94E+0
PET	MJ	1.34E+1	1.34E+1	0	0	0	0	1.34E+1
SM	kg	0	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0
FW	m3	2.79E-2	2.79E-2	0	0	0	0	2.79E-2

Output flows and waste categories	Unit	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	2.78E-6	2.78E-6	0	0	0	0	2.78E-6
NHWD	kg	8.52E-3	8.52E-3	0	0	0	0	8.52E-3
RWD	kg	7.72E-6	7.72E-6	0	0	0	0	7.72E-6
CRU	kg	0	0	0	0	0	0	0
MFR	kg	0	0	0	0	0	0	0
MER	kg	0	0	0	0	0	0	0
EE	MJ	0	0	0	0	0	0	0
EET	MJ	0	0	0	0	0	0	0
EEE	MJ	0	0	0	0	0	0	0



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