

# Environmental Profile

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

Ecochain v3.5.64



Product: 3063761 - PP Bend Cableduct 90° YL 50 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 | <input checked="" type="checkbox"/> | MND | MND | MND | MND | MND | MND | MND | MND | MND | MND | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |

### 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

#### A4 Transport gate to site

**A5** Assembly / Construction installation process

### 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

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# Results

| Environmental impact | Unit         | A3       | A1-A3    | C2 | C3 | C4 | D | Total    |
|----------------------|--------------|----------|----------|----|----|----|---|----------|
| GWP-total            | kg CO2 eq    | 6.79E-2  | 6.79E-2  | 0  | 0  | 0  | 0 | 6.79E-2  |
| GWP-f                | kg CO2 eq    | 4.93E-2  | 4.93E-2  | 0  | 0  | 0  | 0 | 4.93E-2  |
| GWP-b                | kg CO2 eq    | 1.30E-2  | 1.30E-2  | 0  | 0  | 0  | 0 | 1.30E-2  |
| GWP-luluc            | kg CO2 eq    | 5.73E-3  | 5.73E-3  | 0  | 0  | 0  | 0 | 5.73E-3  |
| ODP                  | kg CFC11 eq  | 5.58E-9  | 5.58E-9  | 0  | 0  | 0  | 0 | 5.58E-9  |
| AP                   | mol H+ eq    | 4.17E-4  | 4.17E-4  | 0  | 0  | 0  | 0 | 4.17E-4  |
| EP-fw                | kg P eq      | 9.09E-7  | 9.09E-7  | 0  | 0  | 0  | 0 | 9.09E-7  |
| EP-m                 | kg N eq      | 1.24E-4  | 1.24E-4  | 0  | 0  | 0  | 0 | 1.24E-4  |
| EP-T                 | mol N eq     | 1.36E-3  | 1.36E-3  | 0  | 0  | 0  | 0 | 1.36E-3  |
| POCP                 | kg NMVOC eq  | 3.77E-4  | 3.77E-4  | 0  | 0  | 0  | 0 | 3.77E-4  |
| ADP-mm               | kg Sb eq     | 1.48E-6  | 1.48E-6  | 0  | 0  | 0  | 0 | 1.48E-6  |
| ADP-f                | MJ           | 4.89E-1  | 4.89E-1  | 0  | 0  | 0  | 0 | 4.89E-1  |
| WDP                  | m3 depriv.   | 3.15E-1  | 3.15E-1  | 0  | 0  | 0  | 0 | 3.15E-1  |
| PM                   | disease inc. | 7.04E-9  | 7.04E-9  | 0  | 0  | 0  | 0 | 7.04E-9  |
| IR                   | kBq U-235 eq | 1.46E-3  | 1.46E-3  | 0  | 0  | 0  | 0 | 1.46E-3  |
| ETP-fw               | CTUe         | 1.36E+0  | 1.36E+0  | 0  | 0  | 0  | 0 | 1.36E+0  |
| HTP-c                | CTUh         | 5.39E-11 | 5.39E-11 | 0  | 0  | 0  | 0 | 5.39E-11 |
| HTP-nc               | CTUh         | 1.47E-9  | 1.47E-9  | 0  | 0  | 0  | 0 | 1.47E-9  |
| SQP                  | Pt           | 6.43E-2  | 6.43E-2  | 0  | 0  | 0  | 0 | 6.43E-2  |
| Resource use         | Unit         | A3       | A1-A3    | C2 | C3 | C4 | D | Total    |
| PERE                 | MJ           | 3.09E+0  | 3.09E+0  | 0  | 0  | 0  | 0 | 3.09E+0  |
| PERM                 | MJ           | 0        | 0        | 0  | 0  | 0  | 0 | 0        |
| PERT                 | MJ           | 3.09E+0  | 3.09E+0  | 0  | 0  | 0  | 0 | 3.09E+0  |
| PENRE                | MJ           | 5.20E-1  | 5.20E-1  | 0  | 0  | 0  | 0 | 5.20E-1  |
| PENRM                | MJ           | 0        | 0        | 0  | 0  | 0  | 0 | 0        |
| PENRT                | MJ           | 5.20E-1  | 5.20E-1  | 0  | 0  | 0  | 0 | 5.20E-1  |
| PET                  | MJ           | 3.61E+0  | 3.61E+0  | 0  | 0  | 0  | 0 | 3.61E+0  |
| 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           | 7.49E-3  | 7.49E-3  | 0  | 0  | 0  | 0 | 7.49E-3  |

| Output flows and waste categories | Unit | A3      | A1-A3   | C2 | C3 | C4 | D | Total   |
|-----------------------------------|------|---------|---------|----|----|----|---|---------|
| HWD                               | kg   | 7.45E-7 | 7.45E-7 | 0  | 0  | 0  | 0 | 7.45E-7 |
| NHWD                              | kg   | 2.28E-3 | 2.28E-3 | 0  | 0  | 0  | 0 | 2.28E-3 |
| RWD                               | kg   | 2.07E-6 | 2.07E-6 | 0  | 0  | 0  | 0 | 2.07E-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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