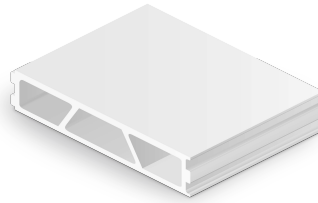UD Plank

ECO REPORT

FIBERLINE
BUILDING PROFILES

Eco Report

Product: **UD Plank**

Date: **6/24/2021**

General Information

Functional unit

This Eco Report gives insights into the environmental impact of 1 UD Plank of 12.9 kg.

Content declaration

The LCA that has resulted in this Eco Report entails a cradle-to-gate analysis. Listed are materials representing more than 1% mass of the product. This factsheet is valid for the year 2021. For a full report about the used materials, please visit [Background and disclaimer](#).

Product: UD Plank

Product description

The Ultra Duty Plank is our strongest bridge decking, designed to meet the most stringent load requirements for pedestrian and cycle bridges. The UD plank reduces the weight of the structure and is easy to work with at the installation site. It is also corrosion-resistant against a range of chemicals and salt water.

Process description

The manufacturing process is Pultrusion. Company specific data for waste and the use of energy, water and emissions for Pultrusion is used.

LCA calculation rules

System boundary

This Eco Report includes the following product stages:

- Procurement, transport and processing of raw materials as well as processing of secondary raw materials serving as inputs
- Production of the composite parts

Background data

The relevant background datasets were taken from the databases in the SimaPro 8.0.2 software, supplemented by industry data obtained by completed questionnaires. For a full report about the used methodology and background data, please visit [Background and disclaimer](#)

Environmental score

Carbon footprint and Cumulative energy demand (CED)

The carbon footprint (calculated with GHG Protocol, v1.01) of 1 UD Plank is equal to 35.92 of kg. The cumulative energy demand (calculated with CED 1.09) of 1 UD Plank is equal to 685.27MJ. The following figures show the environmental impact of the product.
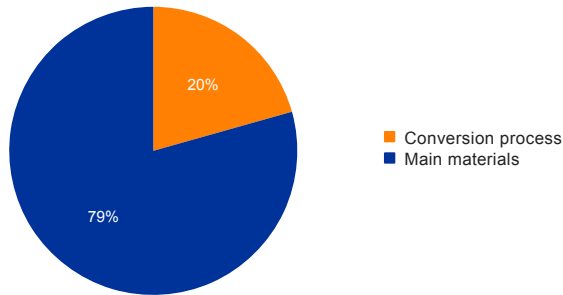
Eco Report

Product: UD Plank

Date: 6/24/2021

Carbon Footprint

- Conversion process
- Main materials

Carbon Footprint:

35.92 kg

Cumulative energy demand:

685.27 MJ

The International Reference Life Cycle Data Systems (ILCD)

The total score of 1 UD Plank is calculated with the ILCD 2011 midpoint+ (v1.06) methodology.

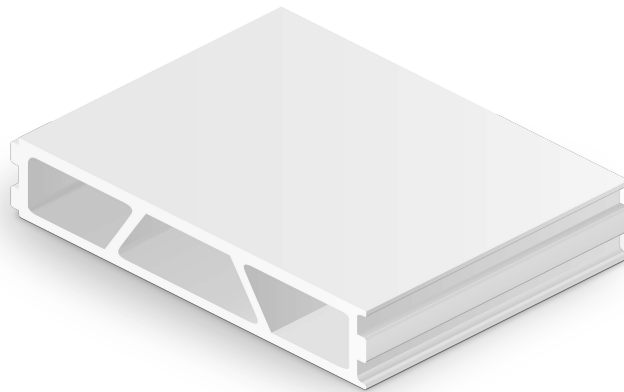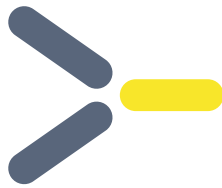| Category	Amount	Unit
Climate change	3.55e+1	kg CO2 eq
Ozone depletion	3.52e-6	kg CFC-11 eq
Human toxicity, non-cancer effects	2.74e-6	CTuh
Human toxicity, cancer effects	3.03e-6	CTuh
Particulate matter	1.51e-2	kg PM2.5 eq
Ionizing radiation HH	2.21e+0	kBq U235 eq
Ionizing radiation E (interim)	8.30e-4	CTUe
Photochemical ozone formation	2.70e-1	kg NMVOC eq
Acidification	1.42e-1	molc H+ eq
Terrestrial eutrophication	3.14e-1	molc N eq
Freshwater eutrophication	1.13e-3	kg P eq
Marine eutrophication	2.96e-2	kg N eq
Freshwater ecotoxicity	1.26e+3	CTUe
Land use	2.39e+1	kg C deficit
Water resource depletion	1.94e-2	m3 water eq
Mineral, fossil & ren resource depletion	5.58e-4	kg Sb eq

Eco Report

This Eco Report is based on European Industry average figures. Thirdparty verification has not been performed and this report is not an Environmental Product Declaration (EPD). Environmental declarations from different programs may not be comparable.

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