

# Environmental Product Sheet

Plan Chair Seat upholstered, 3413



## Design story of the product

With its surprisingly minimal footprint and generous comfort, the Plan Chair is ideal for modern spaces that invite a variety of uses, from extensive hospitality and office applications to everyday living. While sturdy and tested for extreme public use, each component of the Plan Chair is prepared for end-of-use disassembly and ease of possible future reparations - designed to last in a circular economy. Plan Chair successfully balances industrial elements and soft humanistic curves with its materiality, tactility, and crafted details.

## Company description

Since 1911 the core of Fredericia's company ethics has been to encourage customers to buy fewer but better products. With the ultimate goal of creating furniture's that become more beautiful with age and can be passed from generation to generation. These core values are rooted in our sense of responsibility, seen in our use of natural materials, our ethical methods of production and our respect for the people using our furniture every day.

## Supplier support

Through our ongoing implementation of Sustainable supplier selection and Code of Conduct, we ensure that our suppliers meet our conditions regard to human rights and environmental standards among other things.

## Design for environment criteria

In the phase of developing new products or re-engineering existing products Fredericia Furniture follows the below listed principles:

- Timeless design
- Long material lifetime
- Crafted to last
- Easing disassembly of products to increase circularity and ease repair of broken parts
- Increase the use of recycled materials

## Material declaration

Chair with steel frame, upholstered seat, plywood veneer back finished with water-based lacquer. Inner seat in plywood with CMHR or HR foam covered in fabric or leather. Frame is powder coated tubular steel mounted with plastic glides. Felt glides available.

## Environmental data

The whole product incl. packaging material

Recycled content: 27%

Virgin content: 73%

## Life cycle assessment data

The Climate footprint = **46 kg of CO2e** in a level 2 screening validated by the Danish Company, Målbar. This result is based upon the lowest emitting variant of the model and is Målbar's estimate on the outcome within the boundaries of 29 – 55 kg of CO2e.

The CO2e accounts for carbon dioxide and other gases e.g., methane and nitrous oxide. The screening complies with the European LCA-rules PEF (Product Environmental Footprint) meaning that it covers the whole product life cycle incl. extrusion of raw materials to end-of-life handling.

## Environmental Certifications:

Oak and Ash are FSC® Certified.

EU Ecolabel variants: Modernist Green, Bordeaux or black powder-coated frame with HR upholstery in Omni leather, Connect, Remix, Re-wool or Steelcut Quartet fabric.

## Test

EN 16139:2013, L2: Extreme use

## Warranty

Fredericia Furniture A/S offers a 7-year guarantee against manufacturing defects in standard products (materials and construction). The warranty does not cover wear and damage to covers, surface treatment, inappropriate use and the like.

## Disclaimer

The Climate footprint assessment is based upon delivery to an average EU customer and a 15-year lifetime. Be aware of the variety of assumptions when comparing different life cycle assessments from different companies as the level of detail can vary.

This document is not third-party validated, and the communication is only intended for B2B customers.

# Content Declaration

The charts below describe the materials used in the product.


MATERIAL	MASS [KG]	SHARE	CONTENT
Steel	4	63%	Virgin
Plywood	1,6	25%	Virgin
Glue	0,3	5%	Virgin
Laqucer	0,1	2%	Virgin
Aluminium	0,1	2%	Virgin
Foam	0,1	1%	Virgin
Textile	0,05	1%	Virgin
Polystyrene(PS)	0,02	0,4%	Virgin
Powder Coating	0,02	0,3%	Virgin
Polyamid	0,02	0,3%	Virgin
<b>Total</b>	<b>6,3</b>		


PACKAGING MATERIAL	MASS [KG]	SHARE	CONTENT
Cardboard	2,8	96%	Recycled
Polyethylene (PE)	0,1	4%	Virgin
<b>Total</b>	<b>2,9</b>		

## Detailed Climate Footprint Assessment - CO2e


The Climate footprint assessment is verified by Målbar October 28th, 2022.


 **Disposal:** At Fredericia Furniture, we recommend our customers to handle our products with care when the product have served its use. We emphasis therefore that spare parts are reused/recycled when possible and/or products repaired with thought of the future. Sort the spare parts according to your country's regulations.


 **Use phase:** This is the longest phase of the life cycle. During the use phase of our products, a limited environmental impact occurs.


 **Transport:** Includes all transport between suppliers and from manufacturing gate to end consumer.


 **Packaging:** Includes all packaging material.

 **Production:** This phase includes both the manufacturing of components but also the assembly of finished goods.

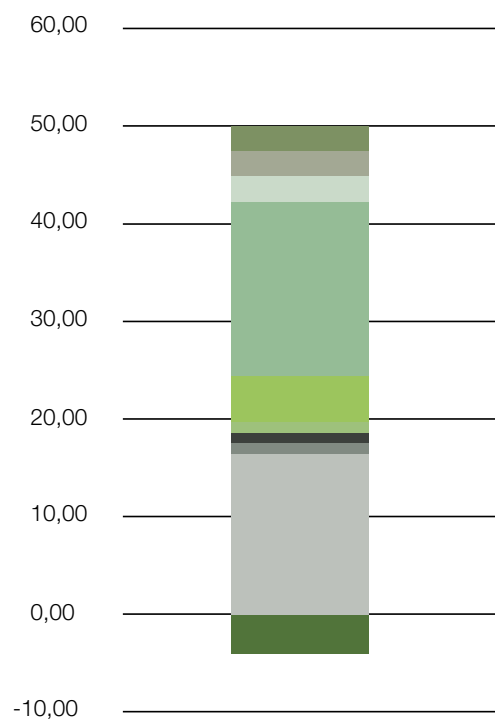
 **Production waste:** Includes the waste that is generated during the different production processes that is needed to manufacture the product.

 **Cover:** Expresses the environmental impact that the cover has if the product consist of it.

 **Upholstery:** Expresses the environmental impact that the upholstery materials has if the product consist of it.

 **Surface treatment:** Showcases the total environmental impact that the product has concerning surface treatments.

 **Materials:** Includes the extraction of materials, and the benefit of recycled content is considered.



CO2e emissions [Kg of CO2e]