

Environmental Product Declaration

Plan Chair, Model 3412



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. 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

Encouraging customers to buy fewer but better products has been at the core of Fredericia's company ethics, ever since we began in 1911. With the ultimate goal of creating furniture that becomes more beautiful with age, intended to be passed down from one generation to the next. 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

At Fredericia Furniture, we have established partnerships with selected supplier to collaborate in the matter of minimizing the environmental impact of our products. Through our ongoing implementation of a 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 broken parts
- Increase the use of recycled materials

Material declaration

Plan Chair is a versatile chair series for many applications and interior projects. The option of either a plywood veneer chair to a fully upholstered chair makes it possible to create just the right setting with different materials and tactility. It's a chair with a small footprint while offering optimal seating comfort. Small and simple in its form but full of personality. The construction is sturdy and easy to disassemble and recycle.

Environmental data

The whole product incl. packaging material

Recycled content: 77%

Virgin content: 23%

Life cycle assessment data

Climate footprint = 38 kg of CO₂e in a level 2 screening validated by the Danish Company, Målbar. This result is Målbar's guesstimate on the outcome within the boundaries of 30 – 46 kg of CO₂e.

Environmental certifications

EU Ecolabel variants: Modernist Green, Bordeaux or Black powder-coated.

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

Be aware of the variety of assumptions when comparing different EPDs and life cycle assumptions from different companies. The level of detail of the assessments across the industry can vary. This is a Self-declared Environmental Claim compliant with ISO 14021.

Content Declaration

The charts below describe the materials used in the product.

MATERIAL	MASS [KG]	SHARE [%]	CONTENT
Steel	4,8	69	Recycled
Oak plywood	1,9	27	Virgin
Glue	0,2	3,3	Virgin
Polystyrene, high impact	0,02	0,4	Virgin
Polyamid	0,02	0,3	Virgin
Total	6,9		

PACKAGING MATERIAL	MASS [KG]	SHARE [%]	CONTENT
Cardboard	2,8	96	Recycled
PE-LD	0,1	4	Virgin
Total	2,9		

Detailed Life Cycle Assessment Data



Disposal: At Fredericia Furniture, we recommend our customers to handle our products with care when the product have served its use. We emphasis therefor that spare parts are reused/recycled when possible and/or products are repair 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 the transport between Fredericia's suppliers and the transport to Fredericia.



Packaging: Includes all packaging material.



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



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



Upholstery: Expresses the environmental impact that the cover has if the product consists 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.



Carbon storage: Carbon credit for bio carbon is automatically subtracted in the calculation.

