

Environmental Product Sheet

Spine Wood Base, 1721



Design story of the product

Spine is a series of chairs and barstools designed with a great attention to materiality, and a mixture of both classic and unorthodox design details. With a dynamic look, the series evolves around a straight seat, designed to bridge the comfort of a fine dining chair, with the openness and social invitation offered by a traditional barstool.

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:

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:

Legs of solid wood with powder coated aluminum stretcher. Seat shell of plywood with beech core. Front side of seat shell upholstered with CMHR or HR foam and covered in fabric or leather, finished with piping.

Environmental Data:

The whole product incl. packaging material
Recycled content: 22%
Virgin content: 78%

Life Cycle Assessment Data:

The Climate footprint = **55 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 42 – 90 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:

FSC® certified

Test:

EN 1022:2005
EN 16139:2013 (L1)

Warranty:

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

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.

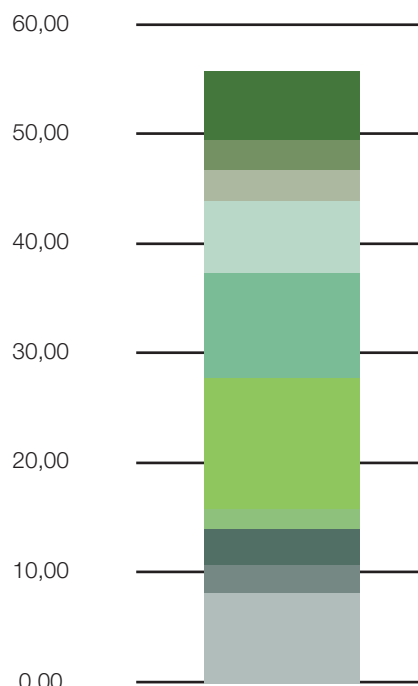
MATERIAL	MASS [KG]	SHARE	CONTENT
Veneer	3,5	51,5%	Virgin
Glue	0,9	13%	Virgin
Solid wood	0,7	11%	Virgin
Aluminum	0,5	8%	Recycled
Lacquer	0,4	6%	Virgin
Foam	0,4	5%	Virgin
Textile	0,2	3%	Virgin
Cotton	0,1	2%	Virgin
Steel	0,01	0,3%	Virgin
Powder Coating	0,02	0,1%	Virgin
PE	0,004	0,1%	Virgin
Total	6,7		

PACKAGING MATERIAL	MASS [KG]	SHARE	CONTENT
Cardboard	1,8	67%	Recycled
HDP	0,7	25%	Recycled
PE	0,2	8%	Virgin
Total	2,7		

Detailed Climate Footprint Assessment - CO2e

The Climate footprint assessment is verified by Målbar June 12th, 2023.

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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 repaired with thought of the future. Sort the spare parts according to your country's regulations.
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Use phase: This is the longest phase of the life cycle. During the use phase of our products, a limited environmental impact occurs.
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Transport: Includes all transport between suppliers and from manufacturing gate to end consumer.
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Packaging: Includes all packaging material.
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Production: This phase includes both the manufacturing of components but also the assembly of finished goods.
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Production waste: Includes the waste that is generated during the different production processes that is needed to manufacture the product.
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Cover: Expresses the environmental impact that the cover has if the product consists of it.
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Upholstery: Expresses the environmental impact that the cover has if the product consists of it.
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Surface treatment: Showcases the total environmental impact that the product has concerning surface treatments.
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Materials: Includes the extraction of materials, and the benefit of recycled content is considered.



CO2e emissions [Kg of CO2e]