

Environmental Product Passport Chair 69



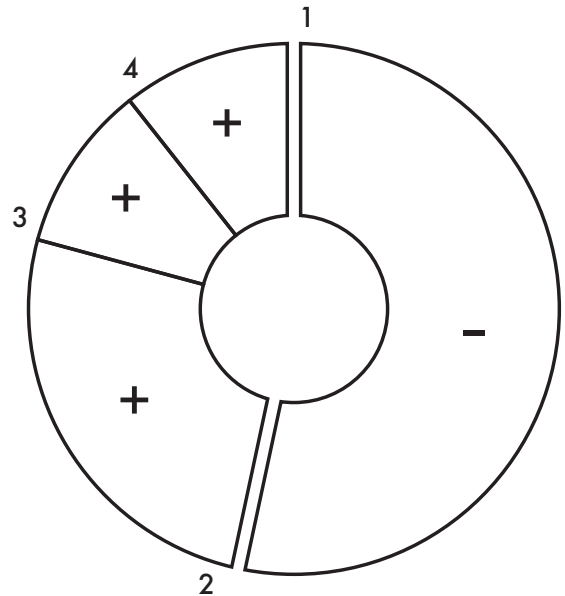
Seat: birch, clear lacquer
Legs: birch, clear lacquer

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Carbon footprint

Category	kg CO ₂ e
1. Raw Materials incl. extraction	-6.4
2. Inbound transport, processing and manufacturing	3.1
3. Outbound transport and installation incl. packaging	1.2
4. End-of-life and disposal	1.3
Total	-0.8



Biogenic Carbon stored in product until incineration or decomposition: 7.5 kg CO₂e

Chair 69 is carbon negative.

The carbon footprint refers to the amount of greenhouse gas emissions generated throughout a product's entire life cycle. The carbon footprint is typically expressed in CO₂ equivalents (CO₂e) which is a standard measure for

the warming effect of all greenhouse gases.

As a tree grows, it absorbs carbon dioxide (CO₂) from the air, stores carbon (C) in its tissues and releases oxygen (O₂). The corresponding reduction

of atmospheric CO₂ contributes to mitigating climate change.

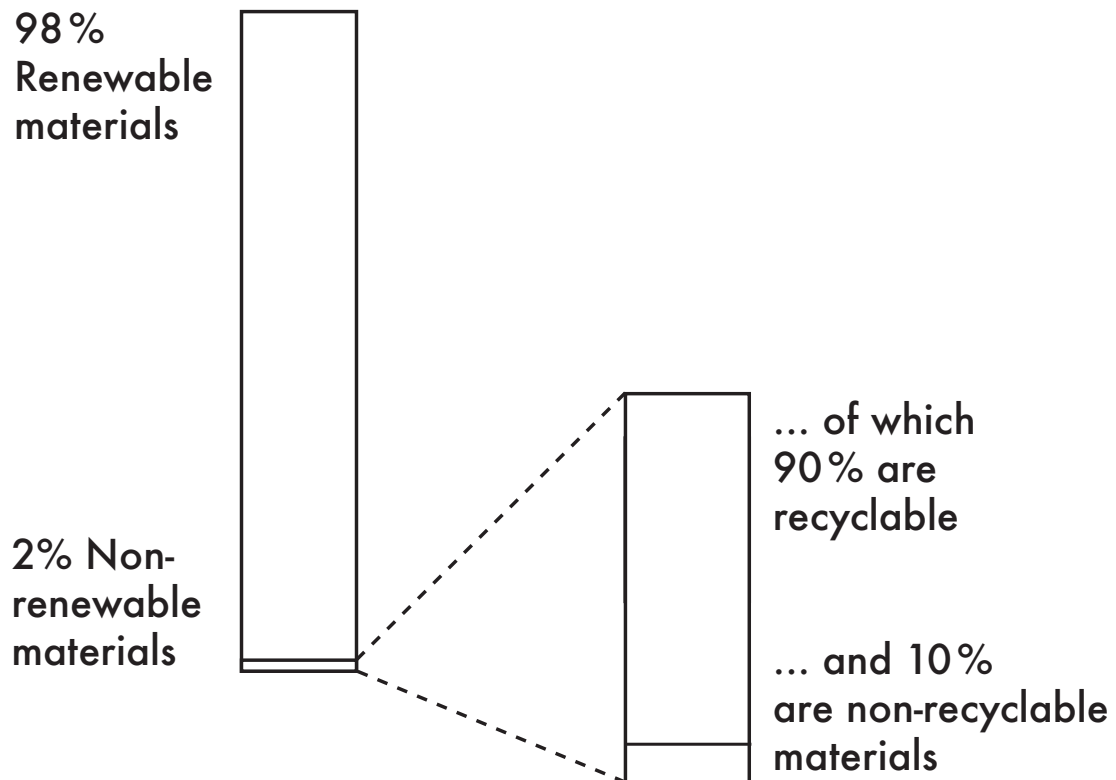
If the biogenic carbon that remains stored in a wooden product during its lifetime exceeds the remaining carbon emissions, then the total carbon footprint of the product can be described as carbon negative.

The longer the sequestered biogenic carbon is stored in the wooden components of the product, the greater the mitigation to climate change.

Designed for physical, functional, and aesthetic longevity, Aalto furniture has proven to last for decades, often passed down from one generation to the next. The assumption is that the product remains

in use throughout the entire regrowth period of the harvested trees (typically between 50 and 80 years).

Renewable and recyclable materials

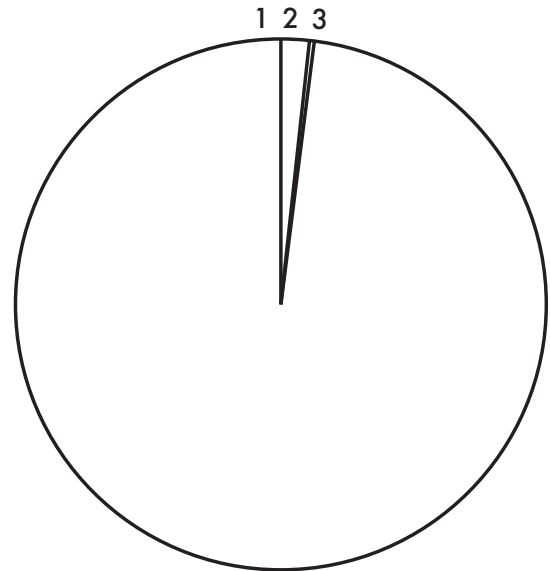


Since 1935, Artek has predominantly manufactured products from natural and renewable materials. Where non-renewable

materials are used, Artek adheres to the principles of the circular economy by using the maximum amount of recycled and recyclable content possible.

Material composition

Material	Percentage
1. Wood	98.0%
2. Steel	1.8%
3. Other	0.2%
Total	100%



Total may vary slightly from 100% due to rounding.

While most Artek products are predominantly made from wood, Artek also uses a range of other materials, all of which must withstand strict internal and external testing procedures.

If a new material is found that is better for the environment and meets Artek's quality criteria, suitable products are executed in that material.

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Packaging & logistics

Packaging and materials	Purpose	Weight
1. Polyethylene foam bag	Protection from dust, moisture and scratches	108 g
2. Corrugated cardboard, min. 80% recycled content	Product protection and stackability	1148 g
3. Polyethylene screw bag	Protection from dust, moisture and scratches	1 g

Artek uses detailed information to ensure transport routes are effectively optimised. Preference is given to rail transport whenever feasible, and Artek aims for the most efficient capacity management possible when using lorries. More than 80% of Artek furniture is

shipped disassembled and flat-packed. The packaging is designed to protect the product and minimise the transport volume. Packaging is reduced wherever possible and materials are optimised to minimise their impact on the environment.

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Supply chain

Provenance of raw materials	Percentage
1. Finland	
- Seat (birch)	47%
- Front legs (birch)	15%
- Rear legs (birch)	16%
- Backrest	20%
2. Germany	
- Screws (metal)	2%
Manufacturing	Percentage
Turku, Finland	100%



This map and percentage calculation represents a-factory and direct suppliers (Tier 1). Total may vary slightly from 100% due to rounding.

The majority of Artek furniture is produced at the company's own a-factory in Finland from locally sourced raw materials and components. For the few products not produced at a-factory, the company works with carefully selected partners who deliver a high standard

of quality and share a commitment to responsible manufacturing. For Artek furniture and accessories, these partners are exclusively based in Europe. For lighting, Artek is working with experienced suppliers in Europe as well as a single long-standing supplier in China.

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How we make things

Artek furniture is manufactured in keeping with the original vision of Alvar and Aino Aalto, which combines modern production methods with skilled craftsmanship and carefully selected materials. Transparency and safety are always priorities for both Artek and its partners, ensuring ethical manufacturing and longlasting quality.

Artek offers full transparency on the origin of its raw materials. Artek's suppliers for solid birchwood, birch veneer, plywood and packaging materials are all based in Finland and either PEFC- or FSC-certified.

EPD

An Environmental Product Declaration (EPD) provides transparency regarding the environmental impacts of a product throughout its life cycle. It enables fair comparisons between products fulfilling the same function. Download the EPD for Chair 69 [here](#).

FSC/PEFC

All wood based-materials of this product are either FSC- or PEFC-certified. The certification confirms that the wood originates from a responsibly managed forest in adhering to strict environmental, social and economic requirements. Find the certificates of our wood and packaging suppliers [here](#).

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Air quality

All furniture produced at Artek's own factory has been exclusively manufactured with water-based lacquers since 2019. This ensures that emissions of Volatile Organic Compounds (VOC) are kept to a minimum, both during production and in later use. The strict criteria of the Australian environmental standard GECA are met.

Product Safety

All Artek furniture is carefully constructed and manufactured to comply with the General Product Safety Directive of the EU. The rigorous testing procedures are all conducted in the company's in-house test centre in Germany.

Chairs, Stools and Bar Stools are repeatedly tested to comply with the following standards and beyond: EN 16139 (2014) Tab1/EN 1728 (2012) Level1, EN 1022 (2005), DIN 68878.

Learn more about how we make things at [artek.fi](https://www.artek.fi)

Services

Where to find us

For products, spare parts and local support, contact the nearest Artek flagship store or an authorised Artek distribution partner near you from this [list](#).

Care & maintenance

[This guide](#) will help you care for your Artek furniture.

For questions relating to the environmental product passport or other enquiries on the topic of sustainability, please contact us at transparency@artek.fi.

Source for Carbon Footprint: Environmental Product Declaration. The EPD conforms to ISO 14025, 14040, 14044 and will be externally verified. Life Cycle Impact Assessment results for one chair (functional unit), that is used for 15 years.

The stored carbon quantities listed under “climate change biogenic” in the relating EPD can be used if an assessment of the product for a different time period, or without including the benefit of stored biogenic carbon, is required.

The system boundary is cradle-to-grave.

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Artek oy ab, Mannerheimintie 12B, 00100 Helsinki, Finland
www.artek.fi

10 / 2024

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