

High Chair K65

Design: Alvar Aalto, 1935



SUSTAINABILITY

Made from birch harvested from Finland's forests, every one of Alvar Aalto's chairs and stools is as unique as the tree from which it came.

Finland's forests are an important element of the country's identity. They cover nearly two thirds of its total land area, are partially owned by one in five Finnish families, and are incorporated into the curriculum of the nation's schools. Thanks to intelligent management dating back more than a century, these forests are actually growing in size, rather than being depleted.

Artek keeps up the good work in its factory with the economical use of materials and a heating system fueled by wood waste. The particular beauty of Finnish birchwood derives in part from the slow tree growth characteristic of mixed forests, which renders their trunks particularly dense. Those used by Artek are about fifty to eighty years old, making the material of the products manufactured today roughly the same age as the company itself.

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MATERIALS

SOLID WOOD, VENEER, PLYWOOD

Wood is a renewable, natural raw material. All solid birch wood, veneers and plywood used for the Aalto Stools is coming from well-managed Finnish forests close to our factory and are FSC-certified.

All the wood products used by Artek satisfy the emission category E1 and therefore emit less than 0.1 ppm formaldehyde.

ADHESIVES

High Chair K65 consists mainly of solid birchwood. Adhesives are only scarcely used in the bend area of the L-leg and foot rest and for bonding the thin plywood top and bottom layers to the solid birchwood core of the seat and for the plywood backrest.

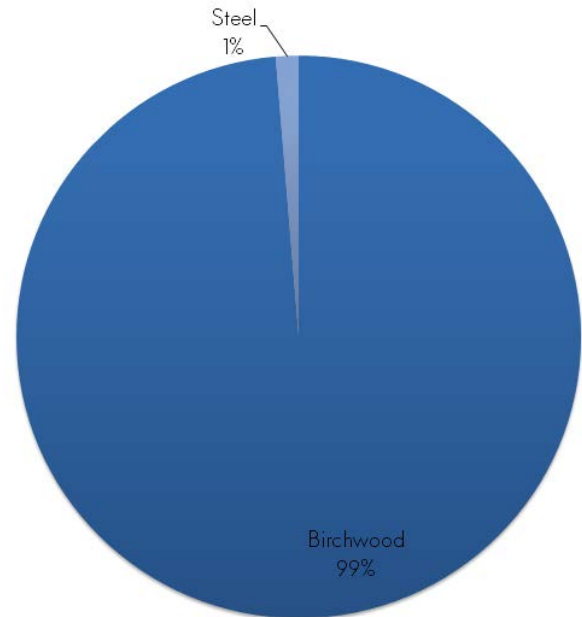
COATING

Artek uses only water based (VOC-free) lacquers for the High Chair K65.

STEEL is a stable compound of iron and carbon with various added alloys. At the end of the product life cycle, steel components can be melted down and completely recycled.

LINOLEUM is a natural material made from raw materials such as linseed oil, pine resin, ground cork dust, wood flour and ground limestone. Our linoleum is made in Europe and all of its components are fully REACH compliant.

LAMINATES also HPLs (high pressure laminates) are sheets consisting of layers of cellulose fibrous material impregnated with thermosetting resins and bonded together in a high pressure process. More than 60% of the HPL consists of paper and the remaining 30 to 40% consists of thermosetting resins are irreversibly interreacted through cross linked chemical bonds formed during the curing process producing a non-reactive,



Material used in High Chair K65 version: legs birch natural lacquered, seat birch veneer

stable material. Formaldehyde emission of HPL according to producer: < 0.4 mg/h m² (tested according to EN 717-2) < 0.05 ppm (tested according to EN 717-1 (WKI chamber method)

The so called "IKI white" HPL used on our seat tops was selected by Alvar Aalto for its extra thickness (1,2 mm) and the double layer of extra thick white paper that makes IKI white HPL a very robust and long lasting surface.

RECYCLABILITY

Solid wood and engineered wood can be used thermally to generate energy or can be crushed and recycled as materials into new engineered wood materials. Due to the high content of pure natural materials emissions are very low.

PACKAGING & TRANSPORT

High Chair K65 will be delivered disassembled and flat packed in a corrugated cardboard box. This results in lower freight volume for further savings in fuel and emissions.