

Stitz 2. Environmental Product Information.



Stitz 2.
The original for new dimensions of movement.
Design: Produktentwicklung Roericht

As early as 1972, design professor Hans (Nick) Roericht had developed a mobile leaning aid as a complementary unit for sitting in the office. He perfected the "Stitz 2" leaning aid and Wilkhahn launched it in 1992. Today, it is still regarded as the unrivalled icon of an ingenious idea that relieves physical strain while providing the body with exercise. That is why the user does not sit on a Stitz in the conventional vertical position but simply rests on its seat at an incline with his feet firmly on the ground. This causes the pelvis to adopt an upright position, facilitates metabolic functions, increases one's sense of balance and activates muscles without subjecting them to excess strain.

The Stitz provides a perfect yet simple answer to complex ergonomic questions concerning the balance between concentration and movement. For an office or a studio, a professional practice or a presentation at a lectern – this leaning aid is a sensible means of support for all those who do not necessarily want to sit while on the job, but do not want to be left standing either.

Guidelines.

Truthfulness in product design

We strive to develop lasting products, increase their utility value and reduce waste. "Less is more" or "reduce to the max" are the guiding principles that Wilkhahn continually translates into future contexts. Ecologically oriented design principles are a natural, integral part of product development.

Fairness in cooperation

We focus on people. This implies a cooperative style of management that recognizes employees' representatives as being co-managers who share in shaping the company. Profit-sharing for employees, the development of new forms of work with partly autonomous group and project work, as well as a firmly established health management scheme mark Wilkhahn's social orientation.

Ecological responsibility

Wilkhahn pursues the goal of sustainable development. Wilkhahn corporate culture is shaped by the balance that we strive to achieve between economic, ecological, social and cultural objectives for safeguarding the independence of the company. Adherence to environmentally relevant criteria throughout the entire product life cycle forms the basis of the way in which we judge our success.

Wilkhahn at a glance – commitment statements, certification, awards.

UN-Global Compact, ISO 9001/14001, EMAS, GREENGUARD™, LEED

Sustainability:



UN Global Compact

Processes:



ISO 9001
ISO 14001



EMAS

Product: Stitz 2



GREENGUARD™



Complies with the requirements for the following number of credits under LEED:
LEED CI 4 – 6
LEED NC 4
LEED EB 7

Milestones of socio-ecological development at Wilkhahn

2009 Wilkhahn signed an international framework agreement to assure and extend exemplary social standards on a global scale. Regular internal checks and external monitoring carried out by the workers union IG Metall guarantee that Wilkhahn and its suppliers meet fundamental standards of the International Labour Organization (ILO).

2008 The newly erected co-generator for combining power and heat at the Bad Münder site is powered by renewable raw materials and since 2008 it has ensured virtually CO₂-neutral production

2001 First company in Lower Saxony, Germany, to be certified in accordance with the European Environmental Standard of EMAS 2

2000 Publication of the first sustainability report in the sector of medium-sized companies: Wilkhahn Added Values

1997 Corporate Conscience Award of Council on Economic Priorities, New York

1996 German Ecology Prize of the Deutsche Bundesstiftung Umwelt

1995 Development and introduction of transport packaging; changeover in table lacquering to low-solvent, water-based lacquer

1994 Preparation and implementation of a waste management concept according to the premises of recycling management

1992 Introduction of the Picto swivel chair range as the first office chair in the world with a design concept integrating consistently ecological criteria

1989 Start of "Wilkhahn Green" with a policy statement on ecology: "The Administrative Board and Management have decided jointly to take ecological matters seriously and, in case of doubt, to give priority to such over and above quick profit"

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Less is more – in ecological terms too

The art of omission is not only a prime aesthetic criterion but an ecological one too: in combination with enduring, high-performance materials it ensures virtually limitless service life and avoids any superfluous components.

The frame of the Stitz comprises an encapsulated gas lift in steel for infinitely variable height adjustment, which may be easily exchanged and recycled, and a base comprising a black, through-dyed elastomer pouch filled with quartz sand. The seat with an operating disc with all-round access for height adjustment is in scratch-resistant, through-dyed polyamide.

The exchangeable seat inset is made from cork – a renewable material – and may be either waxed, or covered with fabric or leather.

The Stitz 2 is an impressive example of how a design concept that consistently focuses on the simplest and highest quality solution can result in products that are both useful and virtually limitlessly lasting: “We strive to develop lasting products, increase their utility value and reduce waste” (from the Founding Manifesto of the Ulm Academy of Design, 1955 where Nick Roericht was first a student and then taught).

Responsibility from the very start – Wilkhahn Environmental Product Information

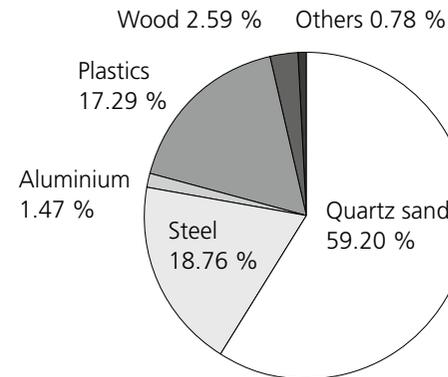
The environmental impact of the Logon table has been evaluated for the entire product life cycle – including the extraction of raw materials, manufacturing, utilization and waste disposal – on the basis of a life cycle analysis and assessment (LCA).



Materials.

Material composition

| | kg | in % |
|---------------------|--------------|------------|
| Metals | | |
| Steel | 2.17 | 18.76 |
| Aluminium | 0.17 | 1.47 |
| Plastics | | |
| Polypropylene | 0.09 | 0.78 |
| Nylon | 1.42 | 12.27 |
| Others | 0.49 | 4.24 |
| Wood (Cork) | 0.30 | 2.59 |
| Miscellaneous | | |
| Quartz sand | 6.85 | 59.20 |
| Others | 0.09 | 0.78 |
| Total weight | 11.57 | 100 |



The total weight of the leaning aid is 11.57 kg.

Stitz 2 comprises 5 percent recycling material (aluminium / steel). The materials used for Stitz leaning aids are subject to stringent control. An ABC analysis is used to examine substances contained in these materials in terms of environmental and health compatibility. Prohibited chemicals are not used in the product at all. All manufacturing supplies are contained in a register of hazardous substances that forms a basis for further minimization or substitution in the case of potential problematic substances.

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design made in germany

Wilkhahn



Architectural environment



Co-generator powered by renewable raw materials



Production.

Water pollution control, waste management and sustainable production of energy

Water is becoming an increasingly important resource. Wilkhahn spares no effort to minimize water consumption in production and to ensure that water quality is not impaired. Due to the treatment of process water, the quantities of waste water requiring special supervision has been reduced by 80 per cent.

The Wilkhahn waste management concept embraces sorting waste according to one-type materials, recycling and disposal of all fractions of waste resulting from production and administration.

The newly erected co-generator for combining power and heat at the Bad Münde site is powered by renewable raw materials and from 2008 onwards it will ensure almost CO₂ neutral production.

Wilkhahn production sites

Wilkhahn Stitz 2 leaning aids are produced and assembled in Bad Münde (Germany), Castellon (Spain) and Sydney (Australia).

Environmental management system

All Wilkhahn sites work in conformity with a uniform environmental management system that is validated at the Bad Münde site (Germany) and certified in accordance with EMAS ISO 14001.

Process safety and quality management

Both the main Wilkhahn production site and all European sales offices are certified in accordance with ISO 9001. When selecting suppliers, Wilkhahn assigns great value to a comprehensive and viable quality management system.

ILO: All Wilkhahn production facilities guarantee compliance with labour and social standards as required by the ILO (International Labour Organization). Such compliance also forms the basis of cooperation with suppliers. The ILO is primarily concerned with the formulation and implementation of international labour and social standards, particularly core work standards that ensure social and just interpretation and application of all aspects of globalization, as well as the promotion of decent work.

Employees as partners

Top performance requires a potential-oriented corporate organization with flexible working hours, a bonus scheme, and group and project work. In turn, all employees share in corporate success in material terms. They have a comprehensive pension scheme; they are at the heart of company health promotion measures and they work in an environment that, by taking groundbreaking steps in industrial architecture, strives to achieve a synthesis of social, ecological, economic and aesthetic needs.

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design made in germany

Wilkhahn



Use.

Aesthetics and design

Sustainable products must be purposive. The timeless aesthetics of the Stitz 2 range result in an increase in utility value in terms of enduring use. In combination with enduring, high-performance materials, the art of omission ensures virtually limitless service life and avoids any superfluous components.

Longevity and guarantee

The Stitz 2 leaning aid was launched in 2002. More than 97,200 Stitz 2 leaning aids have been sold throughout the world since then. This leaning aid sets standards for product design that is "sustainable" in the most optimal way. The durability of the high-quality materials used, the innovative sitting concept and the classic design guarantee usability for many decades. We give a two-year manufacturers' guarantee which thus provides a serious planning and specifying timeframe. We can vouch for this regardless of the long product service life entailed. We regard guarantees over and above such timeframes as an investment in the future. Our service in terms of "ecological prolongation of service life" includes general overhauling and maintenance of older leaning aids. Wilkhahn offers repair service for furniture units no longer produced for two further years following discontinuation. Being on the market for a long time, overhaul service and the high durability of Stitz leaning aids mark key aspects of Wilkhahn product philosophy.

Air quality and emissions of pollutants

Stitz leaning aids do not emit any concentrations of gas that are harmful to the environment or to health. Products from the Stitz range are certified in the USA in accordance with GREENGUARD Indoor Air Quality™. GREENGUARD™ is a certification programme for low emitting products.



LEED

Stitz 2 leaning aids support companies by allowing credit points to be achieved in the case of potential LEED certification (U.S. Green Building Council's Leadership in Energy and Environmental Design). Buildings in the USA are evaluated according to this system in terms of their ecological and social impact.

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End of product life cycle.

Return of used products and recycling

Our responsibility does not stop at the end of the utilization phase of a product as we offer our customers extensive services for taking back and recycling used products. We guarantee that used products may be returned in their entirety. The leaning aids are dismantled at our plant, all components are sorted according to one-type materials and – if possible – are recycled. Due to the clear marking and identification of all materials, due to their nontoxicity and due to easy dismantability, we can today ensure that the components of a Wilkhahn product are returned to both decentral and local material and production cycles and are properly recycled and, if necessary, disposed of. This serves to reduce energy-intensive (and thus ecologically questionable) return transport over long distances.

Disassembly and recycling

All components of the Stitz 2 leaning aid permit non-destructive disassembly. All components weighing more than 150 g bear a material identification mark to ensure that materials can be sorted according to a single type. No material protecting agents or halogen-organic combinations are used that prevent subsequent recycling. A total of 21 percent of components of the leaning aid can be recycled.

Returnable transport packaging

Returnable transport packaging made from renewable raw materials is used for leaning aids from the Stitz range that can be reused, recycled or composted.



International awards

1992: Design Zentrum Nordrhein-Westfalen, Award for "Hohe Designqualität" (High Design Quality), Essen

1993: IndustrieForum Design, "Die 10 Besten" (The 10 Best), Hanover

1993: Museum of Modern Art, Rio de Janeiro, exhibition "Die 10 Besten" (The 10 Best)

1993: Design Preis Schweiz (Design Prize Switzerland)

1994: Design Zentrum München, Munich, exhibition "Die 10 Besten" (The 10 Best)

1993: Industrie Forum Design Hanover, "Die 10 Besten" (The 10 Best), exhibition in Rio de Janeiro

1994: Apex-Award (Intern. Interior Design Ass. Chicago/USA)