

# Logon. Environmental Product Information.

design made in germany

# Wilkhahn



## 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.

**Logon.**  
**Light, floating surfaces.**  
Design: Andreas Störiko

For companies that assign as much value to openness, lightness and dynamics as to high-level quality and enduring elegance, the Logon range offers table culture of the highest degree of excellence and design quality.

An ingenious tensioning principle, drawn from aircraft construction, permits minimum material thicknesses. The rounded laminated wood lipping with integral, impact-resistant profile, the slender uprights and the elegantly modelled foot sections in die-cast aluminium provide table configurations with an appearance of transparent, optical lightness. The intelligent construction is not only significant in terms of weight, but also reduces material input during production compared with other tables of similar size.

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

UN-Global Compact, ISO 9001/14001, EMAS, GREENGUARD™ (certification in process), LEED

Sustainability:



UN Global Compact

Processes:



ISO 9001  
ISO 14001



EMAS

Product: Logon

**Certification  
in process**

GREENGUARD™



Complies with the requirements for the following number of credits under LEED:  
LEED CI 6 – 8  
LEED NC 5  
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 CO<sub>2</sub>-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"

# Logon. Environmental Product Information.

design made in germany

# Wilkhahn

## Material-saving, time-stable and recyclable

The ingenious frame structure of Logon tables is not only an aesthetic characteristic but it also reduces material input during production. Slender material cross-sections also reduce weight and the corresponding amount of energy used during transport. Designed as a directly linked table system, just one foot section is required for linking. Time-stable design, the use of high-quality, perfected finished materials and screw-fitted construction throughout with easy reparability and dismountability of all components guarantee long service life.

- Frames comprise aluminium that combines high dimensional stability with perfect surface finish and durability. At the end of a product life cycle, aluminium is 100% recyclable without any quality loss and with low energy consumption. The tension rods in the uprights are in steel, 20% of which consists of recycled material and is, in turn, also 100% recyclable. The height-adjustable glides are in high-performance plastic that is designed with a view to maximum service life.
- The system table top in high-quality, E1 grade particle board with solid wood lipping is also 100% recyclable. Natural materials such as linoleum, laminates and real wood veneers are used to finish table tops. Veneered tops are protected with low-solvent, water-based lacquer. The integral, impact-resilient profile in polypropylene protects edges and helps prevent damage.
- All frame elements and table tops are screw-fitted; this means that table tops can, for example, be disassembled and refurbished or renewed in the case of signs of wear and tear.

The Logon table system, launched in 1996, not only complies with Wilkhahn guidelines for ecologically responsible product design: the design and material concept, as well as the dimensions of the table system, are precisely coordinated with the dimensions of the mobile folding table from the Confair range. If a conference room allows variable partitioning, a combination of these two ranges provides optimal space utilization that pays off both economically and ecologically and can considerably improve the overall eco-balance of the building.

## 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

Socio-ecological assessment of the extraction of raw materials, the procurement process, of usage of materials as well as material properties.



### Production

Socio-ecological assessment of production and assembly by means of environmental management and social audit systems.



### Utilization

Socio-ecological assessment of production utilization phases with the requirements: design, ergonomics, longevity, customer service, availability of spare parts.



### End of product life cycle

Socio-ecological assessment of the product after the utilization phase has ended: dismountability, recycling, waste disposal and return of used products for recycling.

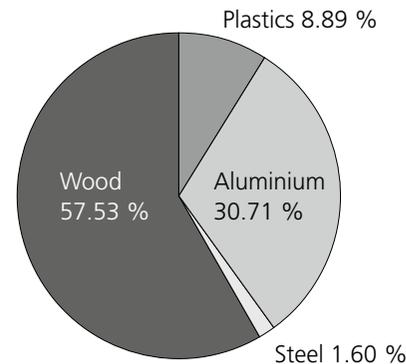


## Materials.

### Material composition

(Size 90 cm x 180 cm · 35<sup>3</sup>/<sub>8</sub>" x 70<sup>7</sup>/<sub>8</sub>" )

	kg	in %
<b>Metals</b>		
Steel	0.68	1.60
Aluminium	13.06	30.71
<b>Plastics</b>		
Polypropylene	1.08	2.54
Others	2.70	6.35
<b>Wood</b>		
Particle board/MDF panel	23.00	54.09
Veneer	1.42	3.34
Miscellaneous	0.62	1.46
<b>Total weight</b>	<b>42.52</b>	<b>100</b>



The total weight of the table is 42.52 kg.

The materials used for Logon tables 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.

# Logon. Environmental Product Information.

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 CO<sub>2</sub> neutral production

### Wilkhahn production sites

Wilkhahn Logon tables 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.

# Logon. Environmental Product Information.

design made in germany

# Wilkhahn



## Use.

### Aesthetics and design

Sustainable products must be purposive. The timeless aesthetics of the Logon range result in an increase in utility value in terms of enduring use. Logon is the perfect solution to virtually all demands made on tables – as a single table or a linked configuration, on levelling adjustable glides or on castors for mobile applications.

### Longevity and guarantee

The Logon range was launched in 1996. More than 42,300 Logon tables have been sold throughout the world since then. The Logon table sets standards for product design that is “sustainable” in the most optimal way. The durability of the high-quality materials used, the innovative table 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 tables. 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 Logon tables mark key aspects of Wilkhahn product philosophy.

### Air quality and emissions of pollutants

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

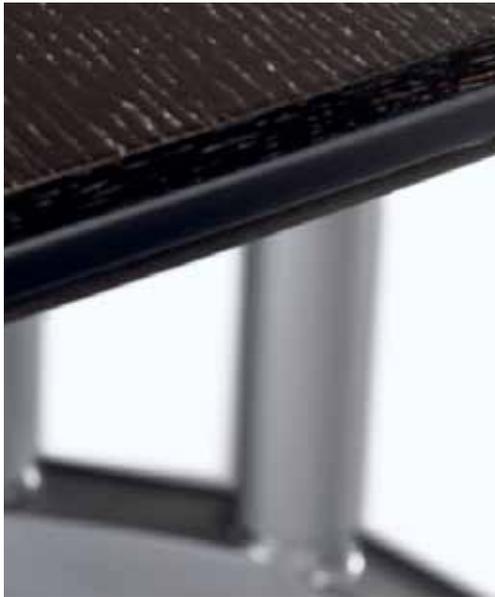
## LEED

Logon supports 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.

# Logon. Environmental Product Information.

design made in germany

# Wilkhahn



## 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 tables 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 dismountability, 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 Logon tables 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 89 percent of components of the tables can be recycled.

### Returnable transport packaging

Returnable transport packaging made from renewable raw materials is used Logon tables that can be reused, recycled or composted.



### International awards

1997: Design Zentrum Essen, "Roter Punkt für hohe Design-Qualität" (reddot for high design quality)