

# ON®. LEED Contribution.

design made in germany

# Wilkhahn



ON office chairs support companies by allowing credit points to be achieved in the case of LEED certification (U.S. Green Building Council's Leadership in Energy and Environmental Design). The LEED Green Building Rating System is a voluntary, criteria-based national standard that is used to distinguish buildings in the USA that provide a "healthy" environment, that are water-saving and energy-saving and observe high environmental standards.

## **Product category**

Office chair

## **Certifications**

GREENGUARD™ Indoor Air Quality Certified® (in North America)

## **LEED Contribution**

Recycling content, regional materials, low emitting materials, certified wood

## **Environmental Facts**

- ON office chairs comprise 55 percent recycling material (aluminium/steel).
- ON office chairs are 98 percent recyclable. All components permit non-destructive disassembly.
- All components in aluminium and polypropylene are 100 percent recyclable. – The seat cushions and the back cushions comprise covered, CFC-free polyurethane foam. Like the alternatively used backrest frame with stretch material, they are also exchangeable.
- Use of re-usable, recyclable or compostable returnable transport packaging made from renewable raw materials.
- ON office chairs were launched in 2009. ON sets standards for sustainable product design. The longevity of the high-quality materials, the innovative chair concept and the classic design guarantee usability over decades.
- All Wilkhahn sites work in conformity with a uniform environmental management system that is validated at the Bad Münders site (Germany) and certified in accordance with EMAS ISO 14001. Wilkhahn supports corresponding certification on the part of its suppliers.

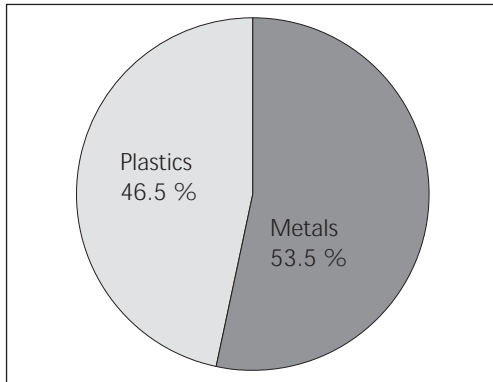
Program	Category	Item	Potential Points	Contribution
<b>LEED-CI</b>	<b>Materials and resources</b>	<b>Construction waste management</b> MR 2.1	1	Use of re-usable, recyclable or compostable returnable transport packaging made from renewable raw materials. Guarantee that used products may be returned in their entirety, including disassembly, sorting and recycling. 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 disposed of.
		MR 2.2	1	Use of re-usable, recyclable or compostable returnable transport packaging made from renewable raw materials. Guarantee that used products may be returned in their entirety, including disassembly, sorting and recycling. 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 disposed of.
		<b>Resource reuse</b> MR 3.3	1	The enduring quality of the high-quality materials, the innovative functional concept, classic, understated design and easy reparability guarantee usability over a period of decades. There is a two-year manufacturers' guarantee. Wilkhahn service in terms of "ecological prolongation of service life" also includes general overhaul and maintenance of older chairs. Wilkhahn offers repair service for furniture units no longer produced for two further years following discontinuation.
		<b>Recycling content</b> MR 4.1	1	Total recycling content 55 percent (No reliable data from suppliers are available for the purpose of differentiation in terms of post-consumer and pre-consumer recycling contents)
		<b>Regional materials and manufacturing</b> MR 5.1	0 – 1	The determining factor for the LEED Contribution is a radius of 800 kilometres from Wilkhahn production or assembly facilities in Bad Münde (Germany), Castellon (Spain) and Sydney (Australia)
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	<b>Indoor environmental quality</b>	<b>Low emitting materials</b> E.Q 4.5	1	GREENGUARD™ Indoor Air Quality Certified®
	<b>Total (LEED-CI)</b>			<b>5 – 7</b>

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		<b>Recycling content</b> MR 4.1	1	Total recycling content 55 percent (No reliable data from suppliers are available for the purpose of differentiation in terms of post-consumer and pre-consumer recycling contents)
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Program	Category	Item	Potential Points	Contribution
<b>LEED-EB</b>	<b>Materials and resources</b>	<b>Constraction, demolition and renovation waste management</b> MR 1.1	1	Use of re-usable, recyclable or compostable returnable transport packaging made from renewable raw materials. Guarantee that used products may be returned in their entirety, including disassembly, sorting and recycling. 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 disposed of.
		MR 1.2	1	Use of re-usable, recyclable or compostable returnable transport packaging made from renewable raw materials. Guarantee that used products may be returned in their entirety, including disassembly, sorting and recycling. 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 disposed of.
		<b>Optimize use of alternative materials</b> MR 2.1 – MR 2.5	5	Re-use/longevity: the enduring quality of the high-quality materials, the innovative functional concept, classic, understated design and easy reparability guarantee usability over a period of decades. There is a two-year manufacturers' guarantee. Wilkhahn service in terms of "ecological prolongation of service life" also includes general overhaul and maintenance of older chairs. Recycling content: the materials used for office chairs from the ON range 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. The ON office chair comprises 55 percent recycling material (aluminium/steel).
<b>Total (LEED-EB)</b>			<b>7</b>	

**An office chair from the ON range comprises the following materials.**

The total weight of the chair is 18.64 kg.



### Material composition

Metals	kg	in %
Aluminium	6.17	33.1
Steel	3.12	16.1
Zinc	0.70	3.7
<b>Plastics</b>		
Polyamide	2.95	15.8
Polypropylene	2.59	13.9
Fibreglas	1.73	9.3
ABS plastic	0.57	3.1
Polyurethane foam	0.45	2.4
Others	0.38	2.0
<b>Total weight</b>	<b>18.64</b>	<b>100</b>

The ON chair comprises 55 percent recycling material (aluminium/steel)

The materials used for ON office chairs 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.

Calculations of recycled content are based on data provided by suppliers and other available information. This data may include industry averages, ranges or other broadly based information. Wilkhahn makes conservative assumptions when compiling this information to provide the most accurate recycled content calculations possible but variability in market conditions or manufacturing processes may result in higher or lower content. This document will be reviewed and updated periodically and is subject to change without notice.