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GERMAN INNOVATION

ENVIRONMENTAL DATA SHEET

WE TAKE RESPONSIBILITY

FOR THE WORLD AROUND US, THE ENVIRONMENT AND THE FUTURE

Every one of us, every manufacturer, every decision maker and every consumer, has a great responsibility for the world around us, our environment and the future. Only if we are aware of the consequences our decisions will have can we make the right decisions. Protecting resources is no longer just a question of environmental protection. The world around us – our social life and interactions between each and every one of us – is interwoven at a global level. The way in which resources are created and handled is a question of social fairness and a significant factor in the development of global poverty.

Handling resources responsibly is the only way to prevent the exploitation of nature as well as people.

At Interstuhl, one of our most important aims is to leave our descendants a world worth living in. Protecting all types of resources is therefore an integral part of our DNA. We want to take responsibility together with all of our partners. This is a core principle in our procurement, development and production processes. But we can only be successful if our customers also make protecting resources an important factor in their decisions. This requires transparency. Our environmental data sheets provide this transparency for all our products. We would be happy to send you our comprehensive sustainability report with its integrated environmental statement if you would like to know more about sustainability at Interstuhl.

PROVEN SUSTAINABILITY

Acting in a way that is oriented towards the environment is always a work in progress. In order to reflect on our processes and continue improving, we regularly undergo certification. The following commendations and certificates are evidence of what we do.

FEMB level 3 certification: Highest sustainability standard of the European Office Furniture Federation

BIFMA LEVEL certification: Strict sustainability certification for materials, energy, health and safety, and social responsibility

Regulation (EC) No. 1221/2009 and EN ISO 14001:2015 (Section 4 to 10): Verified environmental system

Blue Angel: Environmental label of the federal government of Germany for the protection of people and the environment

EcoVadis Gold: Award for corporate social responsibility and sustainability

TÜV emissions testing: Certified safety from harmful substances for people, the environment and technology

ISO 50001:2018: Certified energy management system

ISO 14001:2015: Certified environmental management system

DGNB: Certification from the German Sustainable Building Council

ISO 45001:2018 Certified management system for health and safety

Environmental Award for companies Baden Württemberg: Jury award for corporate responsibility and regional commitment

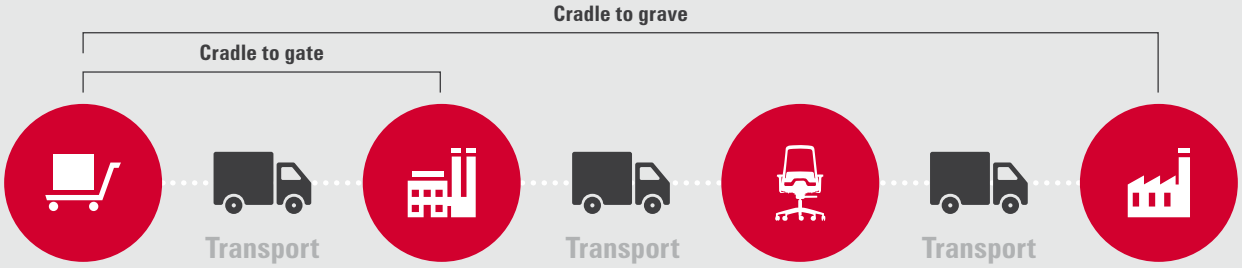
Environmental Award for companies Baden Württemberg 2016: Jury award for corporate responsibility and regional commitment

100 companies for resource efficiency: Award for resource-saving management

ENJOY SEATING PERFORMANCE.

LIFE CYCLE AND ENVIRONMENTAL IMPACT OF INTERSTUHL PRODUCTS

When it comes to evaluating the overall environmental impact of a product, the entire product life cycle needs to be taken into account. There are two different possible assessments: The „cradle to gate“ section considers the complete environmental impact from raw material to finished product. The „cradle to grave“ section goes further to consider logistics, use phase and also the recycling or disposal once a product has reached the end of its useful life.



SUPPLIER

Materials

Steel, plastics, textiles, wood, aluminium

Components

Seat/backrest, column, base frame, mechanism, connector, base

INTERSTUHL

Production processes

Steel processing, cutting to size, foaming, treatment, component assembly, upholstering, final assembly

Auxiliary materials

Electricity, heating oil, water, district heating

USE PHASE

END OF LIFE

Recycling

Incineration

Landfill

EXAMPLES FOR IMPROVED ENVIRONMENTAL CONDITIONS

Materials and components

We reduce material requirements through product design and make sure that our suppliers also meet our requirements for sustainability. Approximately 20% of our materials are recyclates.

Production processes and auxiliary materials

Our production takes place at certified sites, with few harmful substances, in a way that conserves resources and makes use of renewable energies.

Logistics

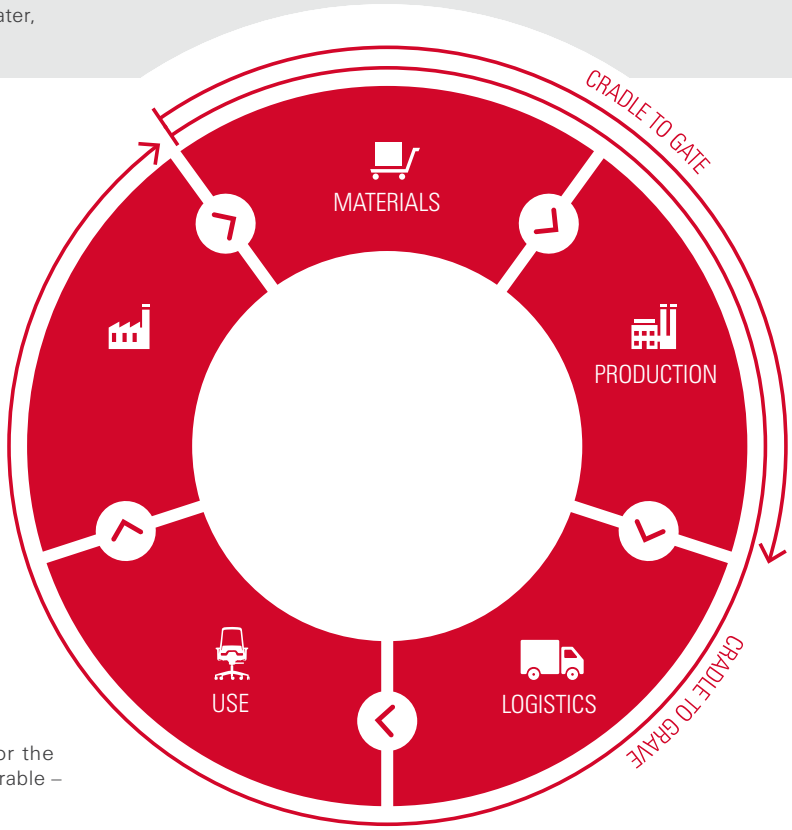
We use lightweight packaging to reduce waste. The logistics process is made more sustainable through smaller packaging sizes and the use of modern vehicles.

Use phase

Our products comply with the statutory thresholds for the emission of harmful substances. They are robust and durable – and we guarantee this with our 10-year warranty.

End of life

We largely abstain from using composite materials and thereby enable more effective recycling. We take responsibility for collecting and recycling old chairs.



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MATERIALS RECYCLING RATE **Every EV211**

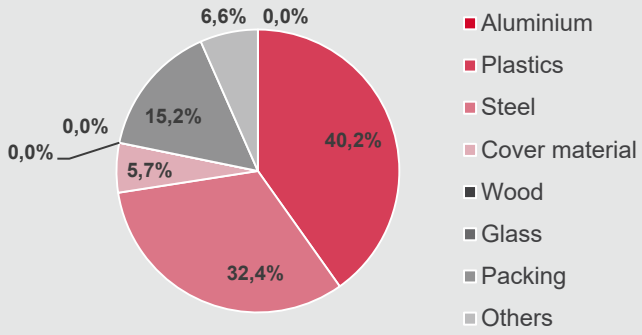
	Weight in kg	Weight in %	Recycling rate			
			Post-Consumer rate		Pre-Consumer rate	
			in kg	in %	in kg	in %
Aluminium	**0,00**	**0,01%**	**0,00**	**90,00%**	**0,00**	**0,00%**
Plastics	**6,10**	**40,16%**	**0,22**	**3,67%**	**1,15**	**18,81%**
• PP	1,89	12,45%	0,08	4,00%	0,38	20,00%
• PA	4,21	27,71%	0,08	2,00%	0,84	20,00%
• POM	0,00	0,00%	0,00	2,00%	0,00	18,00%
• PE	0,00	0,00%	0,00	4,00%	0,00	16,00%
• ABS	0,00	0,00%	0,00	6,00%	0,00	20,00%
Steel	**4,91**	**32,36%**	**2,95**	**60,00%**	**0,00**	**0,00%**
Cover material	**0,86**	**5,66%**	**0,00**	**0,00%**	**0,00**	**0,00%**
• Foam	0,70	4,62%	0,00	0,00%	0,00	0,00%
• Textile	0,16	1,04%	0,00	0,00%	0,00	0,00%
• Leather	0,00	0,00%	0,00	0,00%	0,00	0,00%
• Cotton wool	0,00	0,00%	0,00	0,00%	0,00	5,00%
Wood	**0,00**	**0,00%**	**0,00**	**0,00%**	**0,00**	**30,00%**
Glass	**0,00**	**0,00%**	**0,00**	**60,00%**	**0,00**	**0,00%**
Packing	**2,31**	**15,18%**	**1,77**	**77,00%**	**0,00**	**0,00%**
• Cardboard	2,25	14,82%	1,80	80,00%	0,00	0,00%
• Foil	0,06	0,36%	0,04	77,00%	0,00	0,00%
Others	**1,01**	**6,62%**	**0,00**	**0,00%**	**0,00**	**0,00%**
	15,19		**4,94**		**1,14**	

Post-Consumer Recycling rate 32,5%

Post-Consumer Recycling means recycling of a material, after use by the end customer (e. g. yoghurt cup, glass waste from bottles etc.).

Pre-Consumer Recycling rate 7,5%

Pre-Consumer Recycling means recycling of a material, before use by the end customer (e. g. chipped wood as waste product).



98 % of the materials can be recycled after using the product.

On request you will receive a data sheet, exactly fitting on each product, respectively each model version.
If required, please apply for this model specific information.

Reference model for the collection Every EV211

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PRODUCT LIFE CYCLE ASSESSMENT
PER PRODUCTION STEP

CRADLE TO GRAVE

EVERYis1 EV251 CRADLE TO GATE

Impact category	Materials	Production	CO_2	Logistics + packaging	End of life	Total
Global Warning Potential	82,4%	2,2%	54,99 kg CO_2-eq	2,8%	12,5%	65,0 kg CO_2-eq
Acidification Potential	78,5%	0,8%	0,17 kg CO_2-eq	19,2%	1,5%	0,22 kg SO_2-eq
Eutrophication Potential	74,4%	1,3%	0,014 kg CO_2-eq	22,3%	2,0%	0,019 kg P-eq
Photochem. Ozone Creation Potential	89,5%	0,8%	0,014 kg CO_2-eq	8,9%	0,8%	0,016 kg C_2H_4-eq.
Fossil resource consumption	94,8%	1,6%	936 MJ	2,8%	0,8%	971 MJ
Basic resource consumption	99,3%	0,4%	8,45E-04 kg Sb-eq	0,0%	0,2%	8,48E-04 kg Sb-eq
Ozone Layer Depletation	100,0%	0,0%	0 kg R11-eq	0,0%	0,0%	0 kg R11-eq
Primary energy requirements	92,8%	3,6%	1108,7 MJ	2,5%	1,1%	1150,1 MJ

Climate change

The impact of a product on climate change is measured with a carbon dioxide equivalent value. This describes the global-warming potential of a product by specifying an equivalent amount of CO_2 emissions in kg.

Acidification

The impact of a product on the acidification of soils and bodies of water is measured with a sulphur dioxide equivalent value. This describes product's effect on lowering the pH value by specifying an equivalent amount of SO_2 emissions in kg.

Eutrophication

The impact of a product on the accumulation of nutrients in an ecosystem is measured with a phosphate equivalent value. This describes the nutrient loading caused by a product by specifying an equivalent amount of PO43 emissions in kg.

Formation of photochemical oxidants

The impact of a product on the formation of photochemical oxidants is measured with an C_2H_4(ethylene) equivalent value. This describes the harmful release of hydrocarbons by a product by specifying an equivalent amount of C_2H_4 emissions in kg.

Fossil resource consumption

The amount of fossil resources used by a product is measured in megajoules (MJ). For reference, a litre of petrol corresponds to an energy of approx. 32 megajoules.

Basic resource consumption

The amount of basic resources used by a product is measured with an antimony (Sb) equivalent value. This extremely rare element is used as a comparative value and measured in kg.

Destruction of the ozone layer

The impact of a product on the ozone layer is measured with a trichlorofluoromethane equivalent value. This describes the destruction of the ozone layer by a product by specifying an equivalent amount of CFC-11 emissions in kg.

Primary energy requirements

The primary energy requirements not only include the energy requirements of a production step, but also the energy required for upstream processes. They therefore indicate how high the actual energy requirements are.

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POTENTIAL CONTRIBUTION OF A PRODUCT FOR **CERTIFICATION IN LINE WITH LEED AND WELL**

Office furniture makes an important contribution if a building is to undergo sustainability certification in line with LEED or WELL. The following list shows the potential contribution of an Interstuhl product:

WELL				
Movement	V02 Visual and physical ergonomics	**Part 3**	Seat flexability	**Pre-conditions**
		Part 5	Ergonomics education	**Pre-conditions**
Materials	X08 Hazardous material reduction	**Part 1**	Limit hazardous material	**1 point**
	X10 Volatile compound reduction	**Part 1**	Volatile organic compound	**max. 2 points**
	X11 Long-term emission control	**Part 1**	Furniture and furnishings emission	**max. 2 points**
	X14 Material transparency	**Part 1**	Promote Disclosure of materials used	**max. 2 points**

LEED			
Materials and Resources (MR)	Building product disclosure and optimization	Environmental product declaration	**1– 2 Points**
		Sourcing of raw materials	**1– 2 Points**
		Composition of materials	**1– 2 Points**
Indoor Environmental Quality (EQ)	EQ-Credit	Low-emitting materials	**1– 3 Points**

WELL BUILDING CERTIFICATION

WELL is the sustainability certification system of the International WELL Building Institute. It assesses the environmental factors of a building based on categories like air, light, water, health, knowledge/information or innovation with a score of 1 to 10. Find out more about WELL at

LEED BUILDING CERTIFICATION

LEED stands for "Leadership in Energy and Environmental Design" and is assessed by the U.S. Green Building Council. Different scores are awarded for different areas: Sustainable Sites (21), Water Efficiency (11), Energy and Atmosphere (37), Materials and Resources (14), Indoor Environmental Quality (17), Innovation (6) and Regional Priority (4). The LEED V3/Commercial Interiors standard is used for office furniture. You can find out more about LEED at www.usgbc.org