



## CELLE® CHAIR

 Herman Miller

### Overview

- McDonough-Braungart Cradle-to-Cradle protocol
- Celle contains 33% recycled material
- At the end of its life, it is 99% recyclable
- Manufactured to ISO 14001
- 12 year, 24 hour warranty
- GREENGUARD™ certified
- Carbon footprint is 54.4 kg of CO<sub>2</sub>
- All emissions are offset with Climate Care



POLICY

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In 1953 our founder, DJ De Pree, stated  
'We will be good stewards of the environment.'  
Since then accountable practice and production  
has been and always will be our policy.

Herman Miller's environmental advocacy is long-standing and comprehensive. Since the 1950s, we have been, in the words of founder D.J. De Pree, 'stewards of the environment.' Today over 400 employees play a direct role in the work of 9 different environmental groups engaged in efforts from improving air quality and reducing waste to green energy.

#### Environmental Product Summary

## CELLE® CHAIR

### Design story: The next chapter in ergonomic, sustainable seating

The Celle chair brings a new standard of comfort and support to the work seating market. As conceived and designed by Jerome Caruso, Celle's defining feature is its Cellular Suspension™, a new concept that uses pliable moulded polymer 'cells' and loops to responsively flex in concert with the body's movements throughout the workday.

Durable, easy to maintain, and packed with an impressive list of ergonomic features, Celle also is exceptionally earth-friendly, thanks to input from Herman Miller's Design for the Environment team. Among its many notable DfE qualities is Celle's ease of disassembly—it can be taken apart in less than five minutes, using common hand tools—for a truly recyclable work chair.

### Herman Miller's design protocol

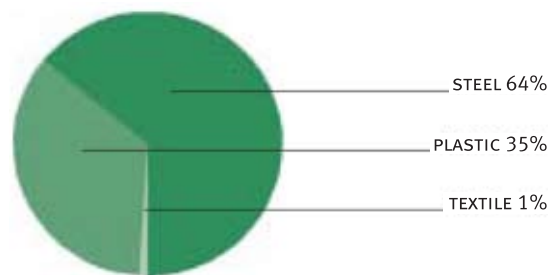
Our commitment to corporate sustainability naturally includes minimising the environmental impact of each of our products. Our Design for the Environment team (DfE) applies environmentally sensitive design standards to both new and existing Herman Miller products, utilising the McDonough-Braungart Cradle-to-Cradle Protocol.

Cradle-to-Cradle goes beyond regulatory compliance to thoroughly evaluate new product designs in three key areas:

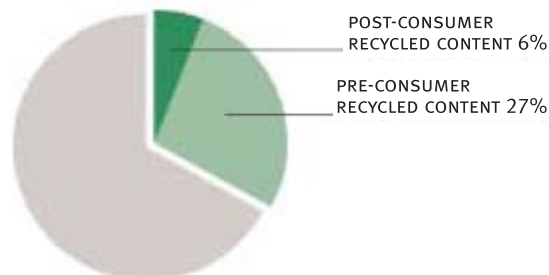
- *Material Chemistry and Safety of Inputs*—What chemicals are in the materials we specify, and are they the safest available?
- *Disassembly*—Can we take products apart at the end of their useful life, to recycle their materials?
- *Recyclability*—Do the materials contain recycled content, and more importantly, can the materials be recycled at the end of the product's useful life?

### Material content

The Celle chair's components are constructed from steel, plastic, and textile.



Celle is comprised of **33 percent recycled** materials. This figure breaks down to 6 percent post-consumer and 27 percent pre-consumer recycled content.



The Celle chair is up to **99 percent recyclable** at the end of its useful life.

## CELLE® CHAIR

- Every material has been scrutinised down to the molecular level.
- Steel components can be segregated and returned to the recycling stream as a technical nutrient.
- Most metal components are powder-coated, which eliminates solvents and volatile organic compounds (VOCs) from the finishing process.
- Plastic components are identified with an ASTM recycling code whenever possible, to aid in returning these materials to the recycling stream.
- Celle's optional polyester textile seat cover can be recycled at the end of its useful life.
- *Returnable/Recyclable Packaging*—Packaging materials include corrugated cardboard and a polyethylene plastic bag; each is part of a closed-loop recycling system, for repeated recycling.
  - Whenever possible, shipments between Herman Miller and its suppliers include the use of pallets and other returnable packaging to minimise waste.
  - On large orders, disposable packaging can be replaced with reusable shipping blankets.

### Manufacturing process

- *Green Energy and Emissions*—The Celle chair is manufactured at Herman Miller's GreenHouse seating operations in West Michigan using green energy. Herman Miller is committed to the use of 100 percent renewable energy by the year 2020. The company is similarly committed to achieving a goal of zero air and water emissions from manufacturing by 2020.
- *Waste*—All solid wastes are recycled to the greatest extent possible.
- *Worker Health and Safety*—Herman Miller strives to meet or exceed OSHA standards.
- *ISO*—Celle is manufactured in West Michigan and UK at ISO 14001-certified sites.

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### HMPS

Herman Miller's commitment to operational excellence lead to an aggressive drive to reinvent its operations and established a fruitful relationship with the Toyota Supplier Support Centre. Through the Herman Miller Production System (HMPS), the company has dramatically reduced manufacturing space and inventories, cut lead times for standard product, and grown sales and profitability. HMPS minimises wasted effort, energy and materials, and plays an important part in Herman Miller's ongoing commitment to a better environment.

### Product performance

- Number One design and environmental criteria: Durability.
- Easy disassembly for recyclability.
- Backed up by Herman Miller's 12-year, 24 hour warranty (gas lift 3 yrs).

### Indoor air quality

The Celle chair is GREENGUARD™ certified as a low-emitting product that meets current indoor air quality standards. GREENGUARD-certified products also meet the emissions requirements of the State of Washington Furniture Systems criteria and the U.S. EPA Procurement Guidelines for Office Furniture.

### Corporate environmental policy

For more information on Herman Miller's Corporate Environmental Policy and other environmental efforts, visit the 'Environment' section of [www.hmeurope.com](http://www.hmeurope.com)

### Supplier support

At Herman Miller, we are committed to working closely with our suppliers to reduce our collective impact on the environment. We not only encourage our suppliers to minimise their operations' environmental impacts, but require they assist us in decreasing our facilities' negative environmental effects, as well.

### CO<sub>2</sub> emissions offset

Herman Miller Ltd. works with Best Foot Forward to calculate, analyse, and reduce the CO<sub>2</sub> emissions of the Celles production in the UK plant. Climate Care offsets the remaining CO<sub>2</sub> emissions by funding sustainable energy projects. For more information visit [www.climatecare.org](http://www.climatecare.org)