

Environmental  
Sustainability

HAWORTH®





At Haworth

we recognize the interconnected relationship among people, business and the environment.

We strive to achieve the proper balance among these relationships as we continue to evolve.

• Over the years we have learned about environmental impact and sustainability not only through our own operations, but also by partnering with our customers and environmental experts. We are proud of the fact that we continue

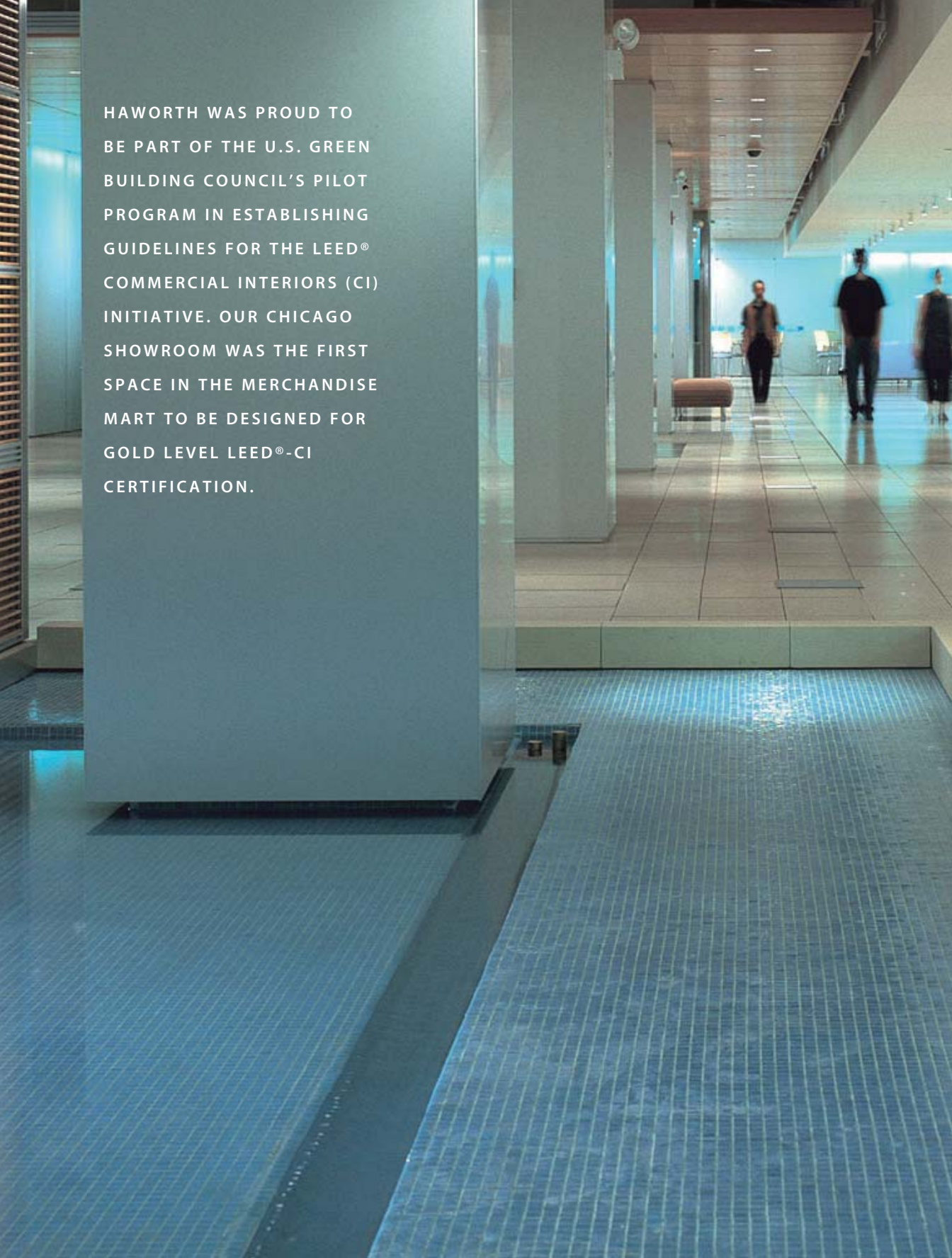
**sustainability** to make significant strides that go beyond

materials and products. • Haworth understands that we can make a difference through our continued commitment to people, business and a more environmentally sustainable world.

When it comes to making an impact on the environment and green-building initiatives,

Haworth's goal is to lead by example.

HAWORTH WAS PROUD TO BE PART OF THE U.S. GREEN BUILDING COUNCIL'S PILOT PROGRAM IN ESTABLISHING GUIDELINES FOR THE LEED® COMMERCIAL INTERIORS (CI) INITIATIVE. OUR CHICAGO SHOWROOM WAS THE FIRST SPACE IN THE MERCHANDISE MART TO BE DESIGNED FOR GOLD LEVEL LEED®-CI CERTIFICATION.



## ENVIRONMENT

### Integrating design and workspaces.

**There's more than one way to think about the environment.** Buildings and construction contribute to many environmental problems: consuming natural resources and space, displacing natural habitat and generating millions of tons of waste every year.

Just as resource allocation and preservation is important to the outdoors, the indoor environment demands attention. Air, lighting and temperature quality and control can affect health and productivity.

**Haworth has a long history of dedication to the environment.** Our focus is to develop products, services and technologies that can improve indoor environments and enhance productivity of people, while preserving the natural outdoor environment.

Our approach – adaptable workspaces – advocates integrating the design, construction and operation of the entire building. Pre-manufactured, moveable and reusable walls, raised access floors, systems furniture, lighting, and power and cabling products work together to create spaces that are reconfigurable. These adaptable workspaces create the opportunity for a reduce, reuse, recycle outcome.

Haworth helps customers create adaptable, efficient, comfortable spaces that are productive, healthy and designed with the environment in mind.

**“As we continuously strive to create beautiful, effective, imaginative workspaces, we also strive to preserve and renew our natural environments around the world.”**

– Richard Haworth,  
Chairman and Chief Executive Officer,  
Haworth, Inc.



“COMPUWARE USED HAWORTH ACCESS FLOORING FOR UNDERFLOOR AIR, MECHANICAL, ELECTRICAL AND COMMUNICATIONS DISTRIBUTION IN ITS ONE MILLION-SQUARE-FOOT HEADQUARTERS. THE DESIGN REDUCED THE HEIGHT BETWEEN FLOORS BY SIX INCHES. THE RESULT: CONSIDERABLE SAVINGS IN RAW MATERIALS BY INCORPORATING 15 FLOORS IN THE SPACE OF A STANDARD 14-STORY BUILDING.”

– LARRY FEES, VP OF FACILITIES AND ADMINISTRATION AT COMPUWARE

## FACILITY PERFORMANCE

### Creating adaptable workspaces.

Workspaces typically need to accommodate change every two years. Renovating with conventional construction involves tearing down drywall, pulling up carpet, and cutting and removing cables and electrical wiring – all of which can end up in a landfill.

### Increasing adaptability decreases waste.

Haworth works closely with customers and their design teams to help create an integrated, life cycle approach to their building space and business needs.

- LifeSPACE® moveable walls are pre-manufactured, dramatically reducing construction waste on-site at the start of the project. They are 98% reusable so changes do not generate more waste.
- Moveable walls allow the use of continuous floor and ceiling planes. Walls are installed between them, enabling virtually 100% reuse of existing floors and ceilings when walls are reconfigured.
- Pre-manufactured Haworth plug-and-play power and cabling generates less on-site installation waste than conventional hard wiring and cable. The main benefit is that changes create no waste – the system is 100% reusable.
- Haworth TecCrete® raised access flooring is also 100% reusable. In addition, used with underfloor air, the space below the floor becomes the plenum requiring up to 80% less ductwork than conventional HVAC. System changes are easy and eliminate waste.

All of these products, along with modular panel systems, integrate to create a less-waste alternative to conventionally built environments.

### The environmental impact of buildings is significant.

#### In the U.S. alone, buildings represent:

- 65.2% of total electricity consumption<sup>1</sup>
- 30% of total greenhouse gas emissions<sup>2</sup>
  - 136 million tons of construction and demolition waste (2.8 lbs/person/day)<sup>3</sup>
- 33% of total waste in North America is from construction, renovation and demolition of buildings<sup>4</sup>

<sup>1</sup>U.S. Department of Energy, Monthly Energy Review, March 2001.

<sup>2</sup>U.S. Department of Energy, "Emissions of Greenhouse Gases in the United States 1999."

<sup>3</sup>U.S. EPA, "Characterization of Building-Related Construction and Demolition Debris in the United States 1998."

<sup>4</sup>Construction, Renovation and Demolition (CRD) Waste Characterization Study, April 2000.



"HAWORTH'S REGIONAL L.A. SHOWROOM IS DESIGNED TO INTEGRATE ARCHITECTURE, INTERIORS AND FURNITURE WITH THE WATER GARDEN BUILDING STRUCTURE TO MAXIMIZE DAYLIGHT AND REDUCE ENERGY COSTS."

- EVA MADDOX OF PERKINS+WILL | EVA MADDOX BRANDED ENVIRONMENTS

## FACILITY AND HUMAN PERFORMANCE

### Enhancing user satisfaction and the bottom line.

**Lighting and cooling consume almost half the energy in an average office.** Haworth's lighting solutions use the latest technology to increase efficiency and accommodate lighting control systems that take advantage of daylight and use motion sensors to minimize power consumption. Haworth products and the products they enable, such as underfloor air, deliver superior performance in reducing energy use.

- Haworth's energy-efficient lighting system can reduce your energy use by 30-60%.
- Underfloor air used with Haworth's TecCrete® raised access flooring is up to 30% more energy efficient than conventional HVAC.

**People costs and health benefits are the highest expense for most businesses.** So the issue is how to keep workers productive and healthy while at work.

Workers that control their environments are more efficient and productive. Some of the most frequent facility complaints are about temperature or lighting.

- Individual swirl diffusers used in Haworth's raised access flooring allow users to control their workspace temperature by up to six degrees. Comfortable workers perform better.
- Haworth's user controlled lighting ensures that workspaces can be tailored to the worker.

Workers in spaces with improved air quality have fewer health complaints and better attendance.

- With raised access flooring and underfloor air distribution, air ventilates to the ceiling for more efficient airflow – a faster exchange of air and better air quality.
- The majority of Haworth furniture is GREENGUARD™ certified. Our products release fewer pollutants into the indoor environment.

### Better health and increased productivity

- The EPA ranks indoor air pollution among the top five environmental risks to public health
- Studies link worker health and productivity to sustainable features including good ventilation, personal controls, daylighting and low-VOC materials<sup>1</sup>

<sup>1</sup>"The Business Case for Sustainable Design in Federal Facilities," U.S. Department of Energy, page 11, a study by Lawrence Berkeley Laboratory.



HAWORTH PARTNERED WITH THE DEPARTMENT OF ENVIRONMENTAL PROTECTION IN PENNSYLVANIA AT FOUR FACILITIES TO INCORPORATE GREEN-BUILDING PRACTICES AND HIGH-PERFORMANCE DESIGN.

## DESIGNED PERFORMANCE

### Supporting with sustainable design.

**Helping customers achieve their goals for the environment and LEED®.** Haworth partnered with the Department of Environmental Protection in Pennsylvania at four facilities – all of which earned LEED® Gold certification.

Enterprise Fleet Services selected Haworth as a strategic business partner for creating workspaces to meet its environmental and design objectives. Integrating Haworth's Architectural Interiors and adaptable workspaces helped Enterprise achieve LEED®-CI Silver certification for its Fleet Operations building.

**Incorporating Design for Environment Strategies (DfE) in new product development.** Haworth is committed to DfE strategies including cleaner materials, increased recycled content, design for disassembly, recycling and renewable materials.

For example, materials for our new Zody™ seating product have been selected according to the cradle to cradle protocol developed by McDonough Braungart Design Chemistry (MBDC). Haworth collaborated with MBDC to minimize the environmental impact of Zody. Wind energy credits were purchased to help offset the environmental impact of manufacturing this product.

Haworth offers Forest Stewardship Council (FSC) certification for wood products to confirm materials come from independently-certified, well-managed forests. In addition, wheatboard – a rapidly renewable, 100% recycled agrifiber product – is a standard option for our worksurfaces.

**Designing our facilities worldwide to meet Green Building and LEED® criteria.** Haworth's Chicago and Los Angeles showrooms were designed using LEED®-CI standards, and we're extending the process to other showrooms and sites, including our corporate headquarters.



### Haworth furnishes U.S. Green Building Council's headquarters.

We consider it the highest compliment that Haworth product was selected for the U.S. Green Building Council's (USGBC) headquarters which was awarded LEED®-CI silver certification. The USGBC is responsible for establishing a common standard of measurement for assessing building performance and meeting sustainability goals.



OVER THE COURSE OF A DECADE, HAWORTH HAS DIVERTED ENOUGH WASTE TO EQUAL THE ENERGY USED BY OVER 42,000 HOMES IN A YEAR AND GAS EMISSIONS EQUAL TO KEEPING 54,000 AUTOMOBILES OFF THE ROAD ANNUALLY.

## WALKING THE TALK

### Minimizing our environmental footprint.

**Our commitment to the environment started long before green initiatives were in vogue.** For example, 40 years ago we began a formal internal program of waste reduction. Today, Haworth continues to focus on prevention of pollution and reducing the environmental impact of our suppliers operations, products, services and activities.

**Waste.** Product development works to reduce material usage and shipment weight thereby consuming fewer raw materials and saving fuel during delivery. Programs to optimize operations and reduce packaging also help minimize waste.

Our dedicated recycling center recovers over 30 types of materials from our manufacturing and office operations. Over the last 10 years, we've recycled over 120,000 tons of waste.

**Air.** Haworth has been a leader in eliminating VOCs in our products and manufacturing operations. Solvent air emissions have dropped 70% in the last five years, moving us closer to eliminating them altogether. More evidence of success: The majority of Haworth furniture products sold are GREENGUARD™ certified as low-emitting for VOCs and formaldehyde.

**Water.** Haworth strives to minimize the amount of water we use in manufacturing and ensure its cleanliness. One example: We recycle the wash-line water used in our metal painting process to minimize wastewater discharges.

Our commitment to the environment continues outside our corporate headquarters, where we maintain a natural environment that encourages native plants and minimizes the use of chemicals and fertilizer that can contribute to run-off.

### Environmental Awards and Programs

- Charter member EPA 33/50 Program – 1988
  - Built Haworth corporate on-site recycling center – 1992
  - Michigan Chamber of Commerce Environmental Quality Award – 1993
- Charter member EPA WasteWise Program – 1993
  - Among first in industry to achieve ISO 14001 – 1999
    - GSA Evergreen Award – 1999
  - Michigan Recycling Coalition Recycler of the Year – 1999 & 2003
- Michigan Department of Environmental Quality “Clean Corporate Citizen” Awards – 3 in 2004
  - EPA WasteWise Sustained Achievement Award – 2004
  - Chicago Showroom receives LEED®-CI Certification – 2005

At Haworth,

we believe striving for sustainability is our

corporate responsibility. For us, a sustainable approach to

business is one that preserves and restores the natural environment,

supports and strengthens communities, and continually creates economic

value. Whether you are an employer or employee, supplier or end user,

current or potential customer, architect or designer,

your environmental aspirations

are as varied as the businesses you represent.

Haworth understands

there are different milestones

in the journey to sustainability

and that one way

we can successfully approach our destination

is by working together to design great spaces

that adapt to change.

change  
by design



# HAWORTH®

Haworth Inc. One Haworth Center  
Holland, Michigan 49423-9576 USA  
For more information, call 800.344.2600 or 616.393.3000

[www.haworth.com](http://www.haworth.com)

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