



Green Roof - Highly Reflective Roof

The 45,000 square foot green roof features LiveRoof® system that utilizes pre-vegetated, recycled interlocking plastic trays. Roof maintenance easily performed by removing trays where necessary. Vegetation features drought-tolerant sedum. Roof includes 5,000 sq. ft. of reflective white pavers. Reduces air conditioning and heating costs and rainwater run-off; creates songbird habitat.

LEED Contribution

SS MR

- Heat Island Effect-Roof
- Recycled Content
- Regional Materials

Deconstruction

3,966 yards of waste materials generated during phase one deconstruction; over 99% re-used or recycled. Strategies included converting 9.23 tons of old window glass and 3.25 tons of concrete waste dust from Haworth manufacturing operations into over 8,000 concrete blocks (52% recycled glass, 2.5% concrete dust).

LEED Contribution

MR

- Construction Waste Management: Divert 50%/75%/over 90% (for innovation credit) from Disposal
- Recycled Content

Landscaping

Multiple vegetated bioswales along building and parking areas utilize native plants to absorb and filter stormwater and capture pollutants.

LEED Contribution

SS WE

- Water Efficient Landscaping
- Stormwater Design: Quality Control
- Site Development: Protect or Restore Habitat

Sustainability by Design: One Haworth Center Case Study CEU

More than 20 years ago, a United Nations-sponsored environmental initiative defined sustainable development as “meet(ing) the needs of the present without compromising the ability of future generations to meet their own needs.” (The Brundtland Commission, 1983)

Over the past several years Haworth has made significant strides in designing and manufacturing products that reflect this guiding principle. Not surprisingly, Haworth also is committed to building or renovating its own corporate buildings worldwide to achieve LEED® certification or the prevailing local green building benchmark. Since 2004, six company buildings have been registered or certified to these sustainability standards.

In 2006 Haworth launched perhaps its most ambitious building project to date: the renovation of its world headquarters in Holland, Michigan. Scheduled for completion in 2008, the new HQ will incorporate everything Haworth has learned

about environmental stewardship to create a healthy, cost-effective environment that showcases the company’s adaptable workspace solutions. The project is registered for LEED-NC (New Construction) Gold certification.

Haworth’s HQ renovation epitomizes a step-by-step “how-to” on the challenges and rewards of pursuing LEED certification. As a case study, Sustainability by Design includes a look at the six LEED certification categories and how Haworth intends to capture credits within each. (See Project Checklist insert.) Participants also are given a guided tour of the new corporate headquarters in its current state of construction.

Sustainability by Design offers participants a wealth of ideas to aid in their own LEED certification efforts, while helping anyone identify effective strategies for making virtually any business environment more sustainable in design and/or function.

Enclose Moveable Walls

Moveable walls combined with access floors and continuous ceilings create a fully adaptable platform for change. Walls secure with minimal/no impact to ceiling or floor finishes. Negligible installation/reconfiguration waste. Enclose components interchangeable with Compose systems furniture.

LEED Contribution

MR IEO

- Construction Waste Management: Divert from Landfill
- Recycled Content
- Construction IAQ Management Plan: During Construction
- Construction IAQ Management Plan: Before Occupancy
- Daylight and Views
- Regional Materials

Compose Panels Workstation

GREENGUARD Air Quality Certified, made from 45% recycled content. Glazing options, multiple panel heights access daylight and views. Metal parts powder coated with a solvent-free durable finish. Wood components use water-based finishes -- virtually no VOC emissions. Energy efficient task lights.

LEED Contribution

EA MR IEO

- Recycled Materials
- Access to Daylight and Views
- Regional Materials
- Optimize Energy Performance—Lighting

Green Housekeeping

Non-toxic cleaning products reduce impact on people and the environment.

LEED Contribution

ID

- Innovation Credit



Fabrics

Many standard panel systems and seating fabrics feature up to 100% recycled content and/or natural materials, and MBDC certified fabrics.

LEED Contribution

MR

- Recycled Content
- Rapidly Renewable Materials

Zody Seating

GREENGUARD Air Quality Certified, made with 51% recycled material content, MBDC Cradle to Cradle™ gold certified to contain no harmful chemicals.

LEED Contribution

MR

- Recycled Content

Task Lights

Electronic ballasts and energy efficient T5 & T8 lamps reduce energy loads. The LED Brazo task light uses up to 65% less energy than compact fluorescents.

LEED Contribution

EA IEO

- Optimize Energy Performance
- Controllability of Systems—Lighting

Carpet

Interface carpet tiles feature 39%-66% recycled content. Tiles include GlasBac® vinyl backing that can be recycled into new backings. Interface ReEntry and similar programs ensure carpet can be recycled.

LEED Contribution

MR IEO

- Recycled Content
- Low-emitting Materials—Carpet
- Regional Materials: 10% Extracted, Processed and Manufactured Regionally

Building Management System

BMS and occupancy sensors automatically adjust indoor lighting to desired levels.

LEED Contribution

EA IEO

- Optimize Energy Performance
- Measurement & Verification
- Outdoor Air Delivery Monitoring
- Thermal Comfort: Monitoring

Glazing

Viracon glass atrium wall provides exceptional thermal performance with a U-factor of 0.21 BTU/hour F. (U-factor is the rate of non-solar heat loss/gain; lower window U-factors = better insulating value.)

LEED Contribution

EA IEO

- Access to Daylight and Views
- Minimum Energy Performance Prerequisite
- Optimize Energy Performance

TecCrete Access Floor

Used in all office areas (240,000 square feet), TecCrete provides under-floor air distribution, power and cabling. Up to 30% more energy efficient than overhead air systems. Modular construction, easy installation and reconfiguration reduce lifecycle maintenance costs. Pre-manufactured locally to reduce on-site construction debris.

LEED Contribution

EA MR IEO

- Optimize Energy Performance
- Construction Waste Management
- Indoor Air Quality: Ventilation Effectiveness
- Controllability of Systems: Thermal Comfort
- Thermal Comfort: Design
- Recycled Content, Regional Materials

LEED Contribution Credit Earnings Key:

Sustainable Sites

Water Efficiency

Energy and Atmosphere

Materials and Resources

Indoor Environmental Quality

Innovation and Design Process