

Michelin North America, Inc. Midwest Distribution Center - Wilmington, Ill.



General Project Information

•The project is a 1.7 million-plus square foot, single-story private warehouse located in Wilmington, Illinois. Michelin North America operates the facility to serve customers in the Midwest region. The project offers a sustainably improved facility with minimal impact to cost, operations, aesthetics or comfort. The project has received LEED NC v2009 Gold certification. Opportunities for sustainability and efficiency were identified at the earliest stages of design. Modern approaches to design and construction were implemented to support ease of operations and maintenance.



Optimize Energy Performance

•Energy savings of 59 percent are projected above a baseline, energy model. Interior and exterior LED lighting contributes to much of the energy savings. Michelin minimizes ozone depletion by utilizing systems that do not use CFC-based refrigerants, HCFCs, or halons.



Fundamental Buildings Commission

•Energy-related systems were verified and calibrated upon installation to meet and perform to the project team's requirements, basis of design and construction documents. Benefits of commissioning include reduced energy use, lower operating costs, fewer contractor callbacks, better building documentation, improved occupant productivity and verification that the systems perform in accordance with the Michelin project requirements.



Construction Waste Management

•Of the construction debris generated by this project, 92.54 percent has been diverted from local landfills and recycled into new products.



Construction IAQ Management Plan: During Construction

•An indoor air quality plan was implemented during the construction of this project to maintain indoor air quality during the construction process. The indoor air quality plan included HVAC protection from dust, source control via the specification of materials with low VOC levels, pathway interruption, housekeeping, and scheduling. Porous materials were protected from exposure to moisture both while stored and after installation.



Controllability of Systems - Lighting

•Michelin promotes a healthy and enjoyable work environment for all of the building's occupants. One way this is achieved is through the use of lighting controls in the office space, allowing for adjustment of the lighting levels to suit specific needs.



Recycled Content

•Post-consumer and pre-consumer products represent over 30 percent of the cost of products utilized in the construction of this facility. Creating a market for products with recycled content helps to reduce the impact, resulting from extraction and processing of virgin materials. Steel, concrete, drywall, carpet, ceiling systems, doors and insulation are a few of the materials that have recycled content and are installed in the building.



Regional Materials

•Forty-nine percent of materials manufactured and harvested, mined or recovered within 500 miles of this construction site contribute to this credit and help reduce the transportation burden associated with new construction. Local employment is also supported through the use of regional materials. Brick, concrete, steel, and precast concrete contain local materials and were manufactured within a 500-mile radius.



Low-Emitting Materials

•Low- or no-VOC products were installed in this building including: paint, carpet, composite wood products, adhesives, and sealants.

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Alternative Transportation | Bicycle Storage & Changing Rooms

- A changing room/shower facility for contract employee use is located in the facility. Bicycle racks are located outside the main entrance. There is bike storage for a minimum of 5 percent of staff, contract employees and visitors. Michelin encourages the use of alternative transportation as part of its sustainability mission.



Alternative Transportation | Low-Emitting and Fuel Efficient Vehicles

- Five percent of the building's parking spaces have been reserved for low-emitting and fuel efficient vehicles. Vehicles with a 39+ ACEEE score meet this definition. Visit www.greencars.org for a listing of cars with this rating. Most manufacturers have qualifying cars exclusive of hybrids. Fuel economy is a key to CO2 reduction.



Heat Island Effect Non-roof

- Heat islands impact microclimates and can affect human and wildlife habitats. The heat island effect is minimized as 91percent of project hardscape materials have a Solar Reflective Index (SRI) of at least 29. The new gray concrete has a SRI of 35.



Water Efficient Landscape

- Native and adaptive plants were selected and incorporated into the landscape, eliminating the need for a permanent irrigation system.



Water Use Reduction

- The facility achieves significant water savings by installing high-efficiency plumbing fixtures. These fixtures include toilets, showers, and sink faucets. By utilizing higher efficiency fixtures, the facility uses 44 percent less water when compared to the LEEDv3 water use baseline.



Green Power

- Thirty-five percent of the building's projected energy is being provided from renewable sources for at least the first two years of operation.



Environmental Tobacco Smoke Control

- Michelin aims to provide a safe environment for all employees, contractors, and visitors by offering a smoke-free environment. A Smoking Policy to protect building occupants from exposure to secondhand smoke by prohibiting on-site smoking is in place. Smoking is prohibited in the building and on site.



Green Cleaning

- A Green Cleaning Program is being implemented to maintain low VOC levels with building operation. Green Cleaning programs reduce exposure of occupants and maintenance personnel to potentially hazardous chemical, biological and particle contaminants. The adverse impact of the building maintenance program on indoor air quality, health, and building finishes and systems is minimized.

Sustainable Education

- For further information on sustainable building design, operations, and the LEED green building rating system, visit www.usgbc.org.