



**CHICAGO
FAUCETS®**
Geberit Group

Project Spotlight: National Museum of African American History and Culture, Washington DC

Helping this museum go for the gold.

As part of the National Mall in Washington, D.C., the National Museum of African American History and Culture (NMAAHC) opened in 2016 amidst iconic buildings like the Washington and Lincoln monuments. The approximately 400,000-square-foot museum is the nation's largest and most comprehensive cultural destination devoted to the African American story and its domestic and international history. Five stories below ground and five above make it the deepest museum on the National Mall. The award-winning museum includes exhibition galleries, an education center, a theater, a café, a store, and offices.

Thirty percent of the building, comprising three historical galleries, is on the underground mezzanine levels below grade. Because it sits on a 12-foot water table at a low point in the National Mall, the museum was built like an upright bathtub to keep water out of the building. To create the below-ground gallery space, a concrete wall 75 feet high was built on the north side of the building, and on the south side a foundation wall was built 50 feet deep in the underground space.

The Challenge

From its inception, the design and construction emphasis was on ecofriendliness, with the added requirement to meet Leadership in Energy and Environmental Design (LEED®) standards and avoid resource waste. To achieve LEED certification the museum had to meet the prerequisites and earn points in key areas of sustainable design, including reducing water use. The LEED Green Building Rating System™ was developed by the U.S. Green Building Council (USGBC) as the nationally accepted benchmark for the design, construction, and operation of high-performance green buildings.

To help achieve LEED Gold status, reduce water costs, and improve overall environmental stewardship, the faucets in the building, as part of the indoor water strategy, had to be water-efficient. Moreover, the faucets had to be one-percent or less lead content, be recyclable, have low-flow outlets and metering cartridges, be sensor operated, and meet all local codes and standards.



The Solution

HyTronic® Edge faucets from Chicago Faucets met all the requirements. Approximately 90 of the touchless faucets were installed in the museum restrooms and companion rooms. All HyTronic faucets are ADA compliant; the models specified are vandal resistant and feature a 0.5 GPM (1.9 L/min) non-aerating spray outlet. Each faucet uses a Self-Sustaining Power System (SSPS) with a water turbine that generates the necessary power to operate the faucet for more than ten years. The SSPS eliminates battery replacement and the expense of hard-wiring the faucet to the building's power supply.

"We recommended Chicago Faucets over the competition for the museum because of their environmental friendliness and their ability to stand up to the public's daily use," says Ned Dwyer, president of E. J. Dwyer Company and Chicago Faucets representative. "For example, Chicago Faucets uses permanent mold casting that dramatically reduces landfill waste, recycled brass in their castings, and recycled paper and packaging."

"Easy programmability and a comprehensive range of flow options helped meet the most stringent conservation requirements at the museum," says Matt Bruening, Operations Manager at Southland Industries, installer of the faucets. "Because DC is prone to drought, plus the building's LEED requirement, it was important that the faucets we installed met the 0.5 GPM flow rate and code requirements." This building is the first museum on the National Mall designed to sustainability standards, serving as the Smithsonian's "Green Flag." In 2018, the museum was officially awarded LEED® Gold Certification.



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Matt Bruening
Operations Manager
Southland Industries

Our Commitment to Conservation and Sustainability

Chicago Faucets has a long-standing commitment to water conservation and sustainability. An extensive product offering incorporates low-flow outlets, adjustable metering cartridges, and sensor-operated faucets that conserve water by limiting the flow rate and controlling operation time.

Chicago Faucets is a member of the U.S. Green Building Council, developer of The Leadership in Energy and Environmental Design (LEED) Green Building Rating System.™ Chicago Faucets also partners with WaterSense®, a program sponsored by the EPA, and promotes water efficiency by enhancing the market for water efficient products, programs, and practices. We are also a charter sponsor of the Alliance for Water Efficiency, a non-profit organization dedicated to the efficient and sustainable use of water.



Chicago Faucets, a member of the Geberit Group, is the leading brand of commercial faucets and fittings in the United States, offering a complete range of products for schools, laboratories, hospitals, office buildings, food service, airports, and sports facilities. Whatever your requirements may be, Chicago Faucets offers standard and made-to-order products that are designed to meet any commercial application.

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