



Hiawatha Public Works

Location:

Hiawatha Public Works
Minneapolis, MN

Project:

Sidewalk
2,000 Sq Ft

Solution:

VAST Composite
Permeable Pavers

Completed:

2010



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VAST Enterprises, LLC
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VAST Contributes to One of Minnesota's Greenest Buildings in the City of Minneapolis

The newest public facility in Minneapolis is raising the bar for government construction in Minnesota and across the country. [The Hiawatha Public Works Facility](#) meets key guidelines for energy savings, efficiency and reduction of carbon dioxide emissions, making it one of the greenest buildings in the state and the greenest garage facility in the country.

The \$9.5 million Hiawatha Maintenance Facility consolidates many Public Works functions that were previously housed throughout Minneapolis, improving the flow and function of how the department does its work. It was

constructed on a site that used to house 18 Public Works buildings, some dating back to the turn of the 20th century. The main building, which originally served as an infirmary for fire department horses, was stripped down to its brick-and-mortar shell and renovated to make the facility. Demolition of smaller buildings on the site took place last year, and nearly all of the demolition materials were sorted and reused in the reconstruction.

The Hiawatha Maintenance Facility, now home to several Public Works divisions, follows Leadership in Energy and Environmental Design (LEED) standards. The Hiawatha building was initially designed to achieve the LEED gold standard, but because of the



Mayor R. T. Rybak & VAST CEO Andy Vander Woude

Hiawatha Public Works Facility Features 2,000 Square Feet of VAST Composite Permeable Pavers... By Using VAST Pavers the Project Kept 1,000 Old Tires and 30,000 Plastic Containers Out of U.S. Landfills

efficiency realized in the construction, it may ultimately be one of just five sites in the state to receive the top LEED platinum ranking.

Some interesting features of the facility include:

- More than 90 percent of the material from the demolition of previous buildings was recycled and used in construction of the new facility. This includes 100 percent of the demolition rubble (concrete, brick and asphalt).
- The new building's footprint is 43 percent smaller than the total footprints of the previous buildings.
- Around 90 percent of the space inside the facility is lit by daylight, reducing the amount of electricity needed during the day.
- Rain gardens, pervious pavers and an underground water infiltration basin keep rainwater on the property. As a result, the landscape requires no watering, and virtually no stormwater runs off into the storm sewers.
- The building's heating and cooling uses geothermal energy, in-floor heating and cooling for shops, and strategies to recover and use

heating and cooling that would otherwise be lost.

- The fence surrounding the building was made from steel deck sections from the old Lowry Avenue Bridge. Hennepin County donated the deck for the project.

The project features a 2,000 square-foot installation of VAST Composite Permeable Pavers. VAST Composite Permeable Pavers (4x8 inches) reduce runoff by infiltrating 4.9 gallons of rainwater per square foot per minute. Manufactured in VAST's engineered composite of 95 percent recycled car tires and plastic containers, the 2,000-square foot installation kept 1,000 tires and 30,000 containers out of U.S. landfills.

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Compared to concrete product manufacturing, the VAST production process requires 82 percent less energy and releases 89 percent less carbon dioxide. VAST pavers are cradle-to-cradle green and contribute to earning more LEED® credits than any other paver.



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