

GREEN ROOF CASE STUDY: SIBLEY MEMORIAL HOSPITAL

A MEMBER OF JOHNS HOPKINS MEDICINE



Green Roof Project Narrative

Sibley Memorial Hospital, a member of Johns Hopkins Medicine, located in Washington, DC, is recognized as one of fifty of the greenest hospitals in the nation by Becker's Hospital Review, 2015. As a leading health provider, Sibley Memorial has cultivated a healthy environment for their patients, staff and visitors using environmentally-friendly, sustainable design elements. As an example, the hospital has installed two large cisterns to capture stormwater run-off for reuse and multiple green roofs throughout their campus, including a Columbia Green Technologies Tray system. The Columbia Green tray system was installed on the Surgical Suite, an existing roof adjacent to the new hospital expansion.

Green roofs can play an important role in healthcare facilities by providing views of, and exposure to, nature on otherwise unused rooftops. Studies have demonstrated that providing patients with visual access to nature can decrease total recovery time and reduce hospital stays by an average of 8.5%. Views to nature are also associated with reduced stress and anxiety and can have a positive effect on the emotional and mental health of patients, families and visitors. Additionally, green roofs can provide a restorative experience and boost the mental performance of hospital staff. Due to these factors, healthcare facilities with green roofs, such as Sibley Memorial, have received positive feedback and an increase overall satisfaction with their hospitals from staff, patients and visitors.

Green Roofs on Healthcare Facilities Quick Facts

- Shown to lower blood pressure and reduce heart rate
- Research has demonstrated that views of nature can bring a decrease in the need for pain medication
- Studies have shown that patients with a view to nature have fewer minor post-operative complications
- Provides a soothing view that can offset the clinical setting

Project Information

- Green Roof will treat and retain over 105,000 gallons of rain water annually- Reducing combined sewer overflows into Washington DC's waterways
- Green Roof System: Tray
- Green Roof Size: 8,000 s.f.
- Campus Roof: Surgical Suite (Existing Building)
- Location: Washington, DC
- Project Partners:
Sibley Memorial Hospital, Owner
Elevation Green Roofs, Green Roof Installer

"We saw an opportunity to take a barren black rooftop and create a beautiful green environment for our patients, staff and visitors to enjoy. With the Columbia Green Technologies tray system we had a lush, fully landscaped green roof on day one. We are thrilled with both the product and service provided by Columbia Green Technologies which made this project a success!"

-Wolf Boltansky

Owners Representative for Real Estate and Construction, Sibley Memorial Hospital



About Columbia Green Technologies

Columbia Green Technologies offers comprehensive green roof solutions; from extensive to intensive green roofs, available with both layered and tray-based systems. Building owners love the Single-Source 'Roof to Green Roof' warranty options provided through our roofing partners.

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