

Case Study

WILLIAM J. CLINTON
PRESIDENTIAL LIBRARY



Increasing Building Life And Energy Savings With A History-Making, Sustainable Vegetated Roof System.

Having been built three years before, in 2007 the William J. Clinton Presidential Library, located in Little Rock, Arkansas, was ready for its finishing touch – a state-of-the-art, eco-friendly vegetated roof.

Tremco and its subsidiary, Weatherproofing Technologies, Inc. (WTI), were awarded the project for a comprehensive plan that encompassed essential waterproofing techniques, usability and beauty through high-end landscaping, assumption of all roof liability and budget compatibility.

Delivering A Precedent-Setting Project On A Tight Timeline.

With installation originally targeted for a narrow eight weeks, the deadline was reduced to just five weeks after work had already begun. This was in order to take advantage of a rooftop C-SPAN interview opportunity with President Bill Clinton.

WTI provided daily on-site project management and was responsible for completing the project within specifications, on time and on budget. In addition, Tremco guarantees the quality of its work and products with a 20-year warranty, as well as a three-year warranty for vegetation establishment.



Building Life. Managed.

TREMCO



Eco-Friendly Effects That Insulate, Cool And Reduce Energy Costs.

Unlike a traditional roof, a vegetated roof system insulates the building and extends the life of the roof with significantly more eco-friendly results. Storm water is filtered and, as it runs through the roof garden, its flow is slowed. The roof can also retain storm water and release it slowly. A slow, consistent flow of water, rather than the fast, varied amount present during a storm, is better for sewer systems. Additionally, it reduces the amount of irrigation necessary to nourish plants.

HVAC systems benefit, too. Because a vegetated roof offers some thermal insulation, HVAC systems can operate at increased efficiency, leading to reduced heating and cooling costs.

Growing Green Above Ground.

Planting maintainable green life over concrete several stories above ground is a challenging task. Directed by Tremco, subcontractors spread and molded 135 cubic yards of unique growing medium over the library's roof. Tremco also employed a sub-surface irrigation system that combines a capillary mat with a slow-drip process for proper irrigation even during dry weather conditions. This design uses 80 percent less water than an overhead system. Tremco's on-staff environmental horticulturist approved 800 different species from which 9,280 plantings were made. When fully grown, the foliage will resemble a lush carpet.

Long-term Advantages.

The only vegetated roof system on a presidential library in the United States, Tremco's history-making roof adds beauty and usability to both a distinguished venue and unique geographical site. Tremco not only provides clients like the William J. Clinton Presidential Library with immediate solutions and total project management but also offers sustainable material, technical solutions and long-term roof maintenance.



To learn more about how an on-time, sustainable and beautiful roofing system can benefit both your organization and the environment – as well as help you trim long-term costs – visit www.tremcoroofing.com or call 800-892-1872.

“When you have a green roof like this, the greenery will absorb carbon dioxide and keep heat out of the building; so it will lower the air conditioning demands of the building. In wintertime, it will lower the heating demands of the building and, therefore, our energy bill will go down. The second thing [it] does is to efficiently use and capture the rain water so it's not just wasted. The more you can absorb and recycle rainwater, the less regular water you have to use, the less energy you use.” – President Bill Clinton

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