

# Great Lakes Brewing Co. - Elton Building Renovation & Solar Hot Water System

Installer: **West Roofing Systems, Inc.**

Location: **Cleveland, Ohio**

Type of Job: **Foam Roof**

Square Footage of Job: **2,075 square feet**

Equipment Used: **Graco Reactor H40 Porportioner, Graco Xtreme X50 Coating Rig,**

Number of people needed for the Job: **5**

Number of days required by the Job: **5**

Special Requirements: **Fall protection guardrails were installed as part of the project**

Foam and coatings used: **WDG System 14, 3009 Foam, HSS 540 R2R Base Coat, HSS 535 Bright White Top Coat**

**Project Description:** Established in 1988 by brothers Patrick and Daniel Conway, Great Lakes Brewing Company became the first microbrewery in the state of Ohio and today remains Ohio's most celebrated and award-winning brewer of lagers and ales. The Elton Building is located within one of Cleveland's historical districts "Market Square" and is designated a historical landmark as part of the "Market Street Exchange". All components of the renovation were carefully reviewed by the City's Landmark Commission. The roof, combined with the solar panel installation, was a critical component in the review process and required one-on-one meetings with the commission to gain final approval. Additional meetings were required to take full advantage of the Federal Tax Credits that would be experienced by installing the Solar Hot Water System and the energy efficient WDG System 14 SPF roof system. The two major portions of the project were the installation of 2,075 square feet of a WDG System 14 SPF roof and the (12) Heat Transfer Products, Inc. HP-30SC Evacuated Tube Solar Panel System (reducing the energy required to heat 1,600 gallons per day) and solar PV Dx Systems for heat pumps (providing a high R-value and roof air barrier allowed a reduction in mechanical equipment size).

**Benefits of using Foam:** The WDG System 14 was the only roof system capable of providing the unique flashing requirements, high R-value and environmental attributes required by the owner, the historic district and the accountants to solve all of the project requirements. The project cost was offset with 30% energy tax credit and due to the energy savings will have a 6.65 year return-on-investment.



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