

West Roofing Systems: Ohio Turnpike Commission Admin. Building

Installer: **Frank Kriews**

Location: **Berea, OH**

Type of Job: **Foam Roof**

Square Footage of Job: **6,000**

Equipment Used: **Attached**

Number of people needed for the Job: **8**

Number of days required by the Job: **7**

Special Requirements: **Noise from roofing operations had to be kept to a minimum; roof near parking garage**

Foam and coatings used: **Gusmer H-40 foam porportioner, Graco 45:1 Bulldog coating rig, Silver Eagle Robotic Applicator equipped with Computerized Auto-slope Technology, 19 ton Simon Stinger Crane, Guzzler Industrial Vacuum Truck**



Project Description: The Ohio Turnpike, officially named the James W. Shocknessy Ohio Turnpike, is a 241-mile toll road running through northern Ohio. It is part of the U.S. Interstate Highway System and maintained by self-generated income. The Ohio Turnpike Commissions Administration Building is located in Berea, Ohio, adjacent to the Ohio Turnpike. Early this year, the commission decided to reroof the buildings south wing. The existing 15- to 16-year-old roof system had developed two persistent leaks. The Ohio Turnpike Commission asked West Roofing Systems to develop a comprehensive long-term roofing solution that would provide energy savings, be as environmentally responsible as possible and allow for continued facility operations. The existing 6,000-square-foot roof system consisted of a metal B-type deck, an average of 3-inch-thick tapered expanded polystyrene insulation system and ballasted EPDM membrane. A three-person crew removed the existing river rock ballast. The ballast was left on-site and will be used by the Commissions landscaping crew. The EPDM membrane was cut into manageable sections and placed in crates for transport to the recycling facility. The amount of EPDM that was recycled and diverted from a local landfill was about equal in volume to a full-size family sedan. After removal of the ballast and membrane was complete, an eight-person crew mechanically fastened a 1/2-inch-thick high-density wood fiberboard to the existing. Next, crew members installed a 2 1/2-inch-thick layer of WDG 3009-3 Soy Spray Polyurethane Foam (SPF). Over each day of SPF application, we installed a 12-mil-thick base coat of WDG HSS 540 R2 Solvent-Free Silicone Coating containing 16.5 percent recycled EPDM. Completing the installation, we installed a 13-mil-thick topcoat of the same coating and broadcast ceramic roofing granules at a rate of 40 pounds per square before the topcoat cured. Using the solvent-free silicone coating prevented the release of about 1,000 pounds of hydrocarbons into the environment and used more than 300 pounds or 1,500 square feet of recycled EPDM.



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Category: Roof Foam < 40,000 sq. ft.

