



Carlisle's PVC Provides the Perfect Solution for Renovated Skyscraper

Located in the heart of Columbus, Ohio, the Borden Building is a juxtaposition from the classically designed structures that make up the city's downtown skyline. While most are constructed from traditional materials, the 34-story, 438-foot building is an aluminum-framed structure enshrined with glass.

To accommodate its range of tenants, the 568,000-square-foot building recently underwent a full-scale renovation that included updates to the office spaces, outdoor plaza, lobby, elevators and rooftop.

While all of the renovations were significant, it was the re-roofing project that was arguably the most challenging. The building was originally constructed with a modified-bitumen roof system and later covered with a ballasted single-ply system. Both were failing, and a quality replacement was essential before interior upgrades could be made.

According to George Reiss, project manager for Division 7 Roofing from Galena, OH, the building's owner, Continental Real Estate Companies, only had two requirements – a reflective material to reduce energy costs and a long-lasting, quickly installed system.

Division 7 chose a Sure-Flex™ PVC roof system from Carlisle SynTec. The white PVC membrane has a proven track record for performance. It is also CRRC (Cool Roof Rating Council) certified and offers superior reflectivity.

Before Division 7 installed the 80-mil membrane, they removed the existing systems. Then they started along the perimeter, where a six-inch-high by 12-foot-wide, poured-concrete platform had been built for a window-washing rig.

Borden Building
Columbus, OH
14,000 Square Feet
Carlisle Sure-Flex system

“Carlisle's pre-made accessories are extremely easy to install and eliminate the variability associated with field-fabricated flashing. We try to use them whenever we can.”

George Reiss
Project Manager
Division 7 Roofing

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The platform was a major source of water infiltration and required an extremely durable solution to handle the eight-ton rig. Division 7 covered the platform with Carlisle's Sure-Flex membrane and topped it with concrete pavers.

Next Division 7 installed the PVC membrane to the remainder of the rooftop. The roofers fully adhered a two-inch thick layer of Carlisle's polyisocyanurate insulation, which features an R-value of 12.1, and helps regulate interior temperatures.

Division 7 utilized Carlisle's two-component polyurethane FAST™ Adhesive to adhere the insulation. FAST offers excellent wind uplift ratings and an additional 0.20 to 0.50 R-value with each layer.

Division 7 then rolled out the 81-inch-wide by 65-foot-long membranes. Most of the sheets were installed with Sure-Flex Bonding Adhesive, but Division 7 utilized a ballasted system near the cooling towers. "Maintenance crews will be walking around that area to service the equipment, and the pavers will protect the membrane and help extend the life of the roof," commented Reese.

Division 7 completed the project with Carlisle's prefabricated flashing accessories. These heat-weldable accessories speed up installations and reduce the likelihood of leaks at troublesome rooftop penetrations.

"Carlisle's pre-made accessories are extremely easy to install and eliminate the variability associated with field-fabricated flashing," said Reiss. "We try to use them whenever we can."

The completed project was everything the building owners were looking for – cost effective because of the reflective PVC membrane and polyiso insulation and dependable because of the durable membrane and Carlisle's industry-leading 20-year, total system warranty. Due to a quick installation, the building's interior was updated earlier than expected, creating less interruption for the fast-paced business environment inside.

About Carlisle SynTec

Carlisle SynTec, headquartered in Carlisle, Pennsylvania is a business segment of Carlisle Companies Incorporated (NYSE: CSL) and has manufacturing facilities in Carlisle, Greenville, Illinois, Senatobia, Mississippi and Tooele, Utah.

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