

A Duro-Last® CASE STUDY

West Liberty High School

Balancing Attractiveness with Economy, Duro-Fleece® is Top of the Class at Ohio High School



West Liberty High School was designed to put all of the district's K-12 students under one roof. And it's a big roof.

Built in 1988, the school in the central-Ohio village of West Liberty began a \$30-million renovation project in 2015. The goal was to upgrade into a state-of-the-art high school. According to Superintendent Kraig Hissong, the project encompasses just about every facet of the building, from 22,000 square feet of new space and technology upgrades to updated windows, HVAC and a new roof.

The Ohio Facilities Construction Commission (OFCC) is responsible for guiding capital projects for state agencies, state-supported universities and community colleges. This includes Ohio's comprehensive public K-12 school construction and renovation program, as well as managing the grants process for cultural facilities and school security programs.

Weighing the Options

The OFCC and project architect Melissa Spires of OHM Architects spent considerable time researching their options. The existing roof slope is 2/12, meaning the roof is fairly flat. There was an interest in installing standing seam metal over the existing roof. However, the cost of the metal and the number of roof lines eliminated its use.

The OFCC and OHM Architects also considered thermoplastic polyolefin (TPO) for the project. The cost of the TPO was slightly less expensive, but the OFCC and OHM had more confidence in polyvinyl chloride (PVC), thanks to its record of durability and longevity. In the end, the base specification called for a PVC fleece membrane, and a custom color to match the existing metal soffit. Aesthetics were of utmost importance because the roof is so visible.

"Finding a roof that could not only last for a long time but look

good and match the existing metal was both a priority and challenge for us," Spires said.

The authority to approve, award and administer design, construction and other specialty contracts falls under the umbrella of the Ohio Facilities Construction Commission. In this process, bidding is managed by a construction manager specified by OFCC — in this case, Ruscilli Construction of Columbus, Ohio.

Through this bidding model, Ruscilli could select the product that best met West Liberty High School's specifications and

SNAPSHOT

Sq. Ft.: Over 250,000

Roofing System:

Duro-Fleece® Custom

Color

Accessories:

EXCEPTIONAL® Metals

2-Piece Snap-On Compression edge metal



needs, instead of being forced to accept the lowest bid.

The Solution

The roofing contractor selected - Ohio-Indiana Roofing of Springfield, Ohio - specified Duro-Last's Duro-Fleece® 60-mil membrane in a custom color — taupe. The Duro-Fleece 60-mil membrane was adhered, with a water-based adhesive, to glass-faced Hunter Panels polyisocyanurate insulation mechanically attached to the deck. The existing roof was a ballasted EPDM single-ply roofing system.

Due to the large area of the roof, the installation was scheduled to take place over two summers. However, Ohio-Indiana completed the entire project during the summer of 2015 before classes started.

Superintendent Hissong had spoken to other school administrators who have used Duro-Last products on their roofs and had confidence in the system. "We're very happy with the way the roof went on," he says. "The color match is excellent, and the installation is very nice. The roof looks great and matches the metal soffit

as intended."

"Getting the project done early was an added bonus."

Spires, the project architect, was also confident in the choice. "Because this was a publicly bid project that called for PVC, we are often required to go with the lowest bid," she says. "We're very pleased that Duro-Last was selected, as it was one of our top choices."



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