



MINERVA MIDDLE SCHOOL

Contractor: Damschroder Roofing | **Location:** Minerva, Ohio
Square Feet: 90,750 membrane



Products

Duro-Tuff® 50 mil copper membrane, Duro-Last Vinyl Ribs, custom curbs and two-way air vents, Duro-Guard® ISO, DEXcell® coverboard, 2-Piece Snap-On Compression, Fascia Cover, Edge Extender

When persistent leaks began disrupting daily life at Minerva Middle School, the district knew it was time for a lasting solution. The 20-year-old facility's roof – an intricate design of steep angles and segmented wings – had suffered from years of water intrusion. Despite repeated repairs, hallways and the cafeteria continued to see leaks during heavy rains and strong winds.

"We just wanted something that would last," said Scott Cassidy, curriculum director for Minerva Local School District. "We're a small district and we pride ourselves on making the most of every dollar. We needed a roof that would perform for decades."





Built in 2004, the school's shingle roof had been installed over a metal deck, polyiso insulation, two-by-fours and sheathing. The two-by-fours installed between the insulation and sheathing created air gaps that allowed wind-driven rain to enter the building envelope. When the district opened bids for a complete reroof to address these issues, Damschroder Roofing of Fremont, Ohio, secured the project through the public bid process.

From the start, Damschroder's team saw opportunities to value engineer the project and stretch the district's budget. "We worked closely with the board to find savings that let them add enhancements, like the standing seam vinyl ribs, to areas they originally couldn't afford," said Coy Beckley, technical sales representative at Damschroder.

However, once work began, it became clear the project scope needed to expand.

"When we started removing shingles, we found the two-by-fours weren't fastened to the lower deck, they were glued," explained Cameron Null, project manager for Damschroder. "That meant we had to do a full tear-off, all the way down to the deck, to get it right."

The roof design required two distinct fastening approaches, mechanically fastened and fully adhered, to meet the building's varied slopes, deck conditions and wind-load requirements. The interior roof areas were mechanically fastened for efficient installation and superior uplift resistance, while the exterior sections, visible from the ground, were fully adhered to create a smooth, continuous surface ideal for the vinyl rib installation.



About Minerva Local School District

Proud home of the Minerva Lions, the Minerva Local School District serves approximately 1,626 K-12 students in the tri-county area between Columbiana, Carroll and Stark counties in Ohio. Built in 2001 and opened to students in 2004, Minerva Middle School is a 77,400 square-foot facility that featured shingled roofing over a metal deck that had began leaking, posing significant disruption and safety concerns for students.

At the ridge line, where the two systems converged, Damschroder collaborated closely with Duro-Last Engineering Services to develop a detailed fastening layout that maintained both structural integrity and warranty compliance.

"We worked hand in hand with the Engineering Services team to confirm that both assemblies could transition seamlessly," Null said. "They provided fastening diagrams, spacing requirements and verification that everything met Duro-Last's high standards for performance and long-term protection."

The new roof assembly featured two layers of 2.6-inch Duro Guard ISO insulation to achieve an R-30 rating. DEXcell coverboard was then installed on fully adhered portions to provide a stable, smooth substrate for the vinyl rib application. Finally, a Duro-Tuff 50 mil copper membrane completed the core installation, selected for its proven durability and a color that complemented the school's exterior design.

As an added enhancement, Damschroder installed vinyl ribs along the exterior portions visible from the ground, replicating the look of a traditional standing-seam roof without the maintenance concerns of metal. Each rib was carefully aligned and heat-welded to the membrane, producing a clean, dimensional finish that enhances the building's aesthetic.

Given Ohio's unpredictable winters, snow retention assemblies were also installed to all fully adhered sections. The system incorporated restrictor plates for added stability, helping to manage snow loads safely and protect gutters, roof edges and most importantly, students below.

Work on the project began in May 2023 as the school year wrapped up, and was completed three months later, just in time for students to return. To minimize disruption, Damschroder coordinated closely with staff to phase construction around testing schedules.





"They worked efficiently and safely while we were still in session," Cassidy said. "It was a smooth process from start to finish."

A crew of eight installers and a full-time on-site superintendent ensured precision workmanship across all 90,750 square feet. Despite Ohio's notoriously changeable weather, the project stayed on schedule and was completed without incident.

The district's confidence in Damschroder was rewarded not only with a watertight roof but with a trusted partnership.

"They were so pleased they invited us back immediately to address another building," Beckley said. "That's the best compliment we can get."

The finished roof delivers long-term performance and peace of mind, backed by a 20-Year Duro-Last NDL Warranty offering complete Edge-to-Edge & Deck-to-Sky™ coverage. For the Minerva Local School District, that assurance was worth the investment.

"It's just comforting to know we don't have to worry every time it rains," Cassidy said. "We're proud of how it looks, proud of how it performs, and proud to have worked with a team that truly cared about getting it right."



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