

WOODWARD EARLY CHILDHOOD CENTER

Duro-Last® Specialty Membrane Case Study



Location: Woodward, Oklahoma **Square Feet:** 109,600

Products: Duro-Tuff® 60 mil membrane in white, blue, green and copper; Duro-Last® Vinyl Ribs; Duro-Guard® EPS Flute Fill Combo; DEXcell® coverboard; DensDeck® coverboard; EXCEPTIONAL® Metals' 2-Piece Snap-On Compression, gutters and downspouts

When planning for the tools and resources needed to prepare their facility for students, a kiddie pool wasn't at the top of the list. But it became a regular fixture for staff and students at Woodward Early Childhood Center in Woodward, Oklahoma. After opening their doors in 2008, administrators were plagued with reoccurring leaks in the building's metal roofing system, which led to the addition of a kiddie pool in the school's hallways after every rain to help collect the water seeping in.

"When you are trying to facilitate an educational foundation for young children, it's important to limit environmental disruptions," said Kyle Reynolds, former Woodward superintendent of schools. "They don't need those types of distractions as they're learning and transitioning

between different spaces throughout the school. It's just not ideal."

After a 2019 hail storm left the metal roof with significant damage, administrators knew it was time to address the roofing problems head-on. Coryell Roofing from Oklahoma City visited the facility to assess the damage and put a proposal together to remedy the water intrusion problems while limiting disruptions and expenses

"In Oklahoma, it isn't a question of if we'll get another severe hail storm, just when," said Brandon Rakestraw, regional sales manager for Coryell Roofing. "For this project, we had to find a solution to remedy their long-term challenges with ongoing roof leaks while also protecting them from the next storm."



The team at Coryell Roofing proposed a metal retrofit system utilizing the vibrant color options available with the Duro-Tuff membrane to match the colors of the existing metal roof. Divided into three separate wings, each section features a bold primary color – red, blue and green – connected to the copper roof on the central hub at the front of the facility.

“Color matching a roof like this can present a lot of challenges, especially when it’s so well known in the community,” said Keenan Young, president and general manager of Coryell Roofing. “Thankfully with Duro-Last, we had a lot of options to work with. We were able to provide a robust membrane solution and meet their exact aesthetic need.” Working up from the existing standing seam metal roofing system, Coryell used Duro-Guard EPS Flute Fill insulation between each rib before adding DEXcell or DensDeck® coverboard for enhanced protection. Duro-Tuff membrane in corresponding colors was mechanically fastened over each section while color-matched 2-Piece Snap-On Compression, gutters and downspouts from EXCEPTIONAL Metals provided membrane termination and rooftop

drainage. To finish, vinyl ribs were added to the copper membrane sections at the front of the facility to replicate the appearance of a standing seam metal roof where it was most visible.

With a crew fluctuating between 10 and 15, Coryell was able to complete the 109,600-square-foot project over a one-month timespan while also working on concurring roofing projects throughout the school district. When completed, the Coryell team presented school administrators with a Duro-Last 20-Year NDL Warranty.

“We couldn’t be happier with the roofing systems installed by Coryell Roofing throughout the district, especially at Woodward Early Childhood Center,” Reynolds said. “The color matches are spot-on and most people don’t even recognize it’s a new roof when they look at it because of the vinyl ribs. We actually held a ceremony to destroy the kiddie pool after our first big rain with the new roof. We had zero water intrusion, which we hadn’t experienced in the 15-year history of the school. The district couldn’t have asked for a better outcome or a better partner to tackle this project with us.”



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