



PROJECT PROFILE

Laurel Street Project Spotlight

Renovated Apartment Complex with Shared Green Roof, Deck, and Patio in Philadelphia, PA

Installed By: Topline Construction – Philadelphia

Rep Group: Exterior Building Solutions

Product: Custom Perma-Tite Coping

Project Overview:

Metal-Era was selected as the coping manufacturer for this highly custom apartment complex roof edge project. The multi-use roof included a pergola with wooden posts coming up through the coping to support the structure, covering 80 percent of the roof perimeter.



The Challenge:

A continuous coping with standard miters was not an option. There were many challenges and difficult details on the project with posts coming up through the substrate. Plus, distance between the posts was not uniform, from post to post or section to section. In fact, some corners had no posts while others had two. This called for the roof edge to be measured and built by section to effectively accommodate the posts. With each corner having varying needs, custom miters were required.

The Action Plan:

As value to the customer, James McGlade, Metal-Era's Northeast Technical Manager, started by conducting an in-depth field measurement of the entire roof, recording variations and install challenges while determining the best product recommendation. He developed a list of problems to be overcome during install so solutions were prepared proactively. James worked with the Director of Product Development to create a detailed action plan by roof section to accomplish a seamless coping install ensuring every piece would work together effectively.

From there, Metal-Era's engineering team created detailed CAD drawings for the plant to use in accurately fabricating all of the products needed for this custom application. Engineering held a pre-planning meeting with the plant to walk through prior to production. The CAD department also developed custom print approvals and custom installation instructions totaling 10-pages to guide accurate install.

Throughout the project, James coordinated and communicated with all parties to ensure success from field measurement through final install. James met with the Topline Construction installer to go through the detailed instructions, answering questions, and connecting with a Metal-Era Process Engineer when needed so the installation went extremely smooth. Not one piece needed to be remade.

Before

After



Product Solutions

This project consisted of many custom pieces including:

- Custom Perma-Tite Coping, flat-coping without nailer, in matte black with Kynar finish (30 year warranty) fabricated to accommodate each set of posts.
- Custom Concealed Splice Plates built wider up to 24" with adapter to fill longer gaps for versatile in-field installation while allowing use of 2 anchor clips per plate for security. Plus an increased number of splice plates were used to seamlessly complete the coping installation.
- Custom Anchor Clips with Risers were made to height match existing roof conditions. A hat channel was added to act as a brace for the anchor clip allowing desired height and stability to be achieved.
- A variety of Custom Miters were created to complete this project. Some miters came in two pieces and were able to be riveted onsite for accurate install around two posts creating an exact fit at the corners. Other miters were pre-manufactured as a single piece measured to fit the unique measurements between posts.

I've used Metal Era a few times before and on this project I knew I had to find a source to give me a prefabricated engineered solution. Metal Era came out and performed detailed measurements and helped with the install so not only did I have an excellent finished product, my install time was fast. I plan to use Metal Era more in the future.

--Scott Manley, Topline Construction

The Metal-Era Difference

This was an effective whole team approach with superior communication built in. Beginning with the rep firm, Exterior Building Solutions, identifying the project needs and connecting with James, Metal-Era's Field Tech Manager, to assess and conduct a detailed field measurement on this complex project set everyone up for success. Then, James collaborated with Metal-Era's engineers and product development team to construct a solution-oriented custom plan. Production was seamless. Metal-Era anticipated extra materials to account for pre-determined in-field alterations. And finally, James walked the installer through the detailed instructions ensuring he was informed and ready to go.

Communication was crucial on this project and led to a successful installation with Topline Construction and the owner highly satisfied with the finished system.

