



#### PROJECT

East Lake Golf Club  
Atlanta, GA

#### PRODUCTS

Custom Historic Shingle

#### COLORS

Custom 14 Color Blend

#### ROOF AREA

20,000 sq. ft.

#### ARCHITECT

Smallwood, Reynolds, Stewart, Stewart  
Atlanta, GA

#### ROOFING DISTRIBUTOR

JGA Southern Roof Center – Atlanta, GA

#### ROOFING CONTRACTORS

DPR Hardin Construction Company  
Atlanta, GA

Dixie Roof Decks – Lawrenceville, GA

KTM Roofing – Atlanta, GA

#### A STUDY IN SUCCESS:

## EAST LAKE GOLF CLUB

East Lake Golf Club, the oldest golf club in Atlanta, Georgia, opened its current clubhouse in 1925. The impressive Tudor-structure was designed by Atlanta architect Philip Shutze and is listed on the United States Register of Historic Places. Legendary golfer Bobby Jones, then just 6 years old, attended the opening ceremony for the property and as the son of an active member, learned the game of golf on its original course.

Over the years, the clubhouse and golf course fell into disrepair. In 1993, the East Lake Foundation was established to restore the course and the clubhouse as a tribute to Jones. Using the original Shutze architectural drawings, the clubhouse was restored to its original splendor in 1994. The club became the permanent home of the TOUR Championship in 2005 and it was clear the clubhouse would need an expansion. When an addition was proposed in 2007, historical accuracy was critical to the success of the project. This included replicating the historic clay tile roof and its dazzling blend of colors.

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### CHALLENGES

DPR Hardin Construction Company contacted Ludowici and JGA Southern Roof Center in September 2007 about a 20,000 sq. ft. addition to the historic East Lake clubhouse. The existing clubhouse roof was manufactured by B. Mifflin Hood Tile Company. B. Mifflin Hood, a long time competitor of Ludowici, went out of business in the 1950s. Located in Daisy, Tennessee, B. Mifflin Hood's numerous tile and brick plants throughout the Southeast furnished tile to many historic homes and buildings. As these buildings aged and incurred damage, replacement tiles were hard to come by. Using historic catalogs, drawings and technical guides, Ludowici's craftsmen have become experts in replicating historic trim and color profiles from a number of manufacturers, including B. Mifflin Hood.

To make this addition a success, Ludowici would need to match not only the tile size and surface, but also the historic colors, many of which were created by dangerous and long since abandoned firing techniques.

### RESULTS

The resulting tile featured a custom, smaller than standard yet historically accurate, roof tile profile with extra heavy scoring in a custom color blend consisting of 14 unique colors. The colors were created to mimic the aging prominently seen on the existing tile roof. Ludowici began shipping the newly created tile in April 2008. Installation was completed in September 2008, one year after the roof project was introduced to Ludowici. Dixie Roof Decks and KTM Roofing carefully blended the intricate 14 custom colors to replicate the random installation on the existing roof, resulting in a seamless blend from the historic roof to the new 20,000 sq ft. addition.

### APPROACH

Representatives from Ludowici, DPR Hardin, JGA, Dixie Roof Decks, and KTM Roofing met in early December 2007, on top of the existing roof deck, to review small color chips and begin the color match process. Ludowici used these standard color chips as a jumping off point to create the first set of tile samples for comparison. Ludowici produced full-sized clay roof tiles in a number of color variations in an attempt to reproduce the color blend of the existing roof. Over the next few months, Ludowici's ceramic engineer compiled a number of different custom color glaze formulations in order to match the existing color blend. At the same time, Ludowici's technical team worked to re-create the custom-size B. Mifflin Hood tile profile, surface and accessories.

In February 2008, the first set of sample tiles were shipped to the jobsite to construct a mock-up. The initial mock-up was built on the top of the existing roof allowing the tiles to be compared up close to the existing roof. Over the next few weeks all parties reviewed the mock-up's colors, blend percentages and tile surface and suggested final edits. A second mock-up was built and on March 18, 2008, the project architects at Smallwood, Reynolds, Stewart, Stewart approved the resulting custom historic roof tile profile with extra heavy scoring in 14 custom colors for use on the new addition.

After field tile was approved, attention turned to the decorative accessories. The interlocking ridge tile on the existing clubhouse significantly defined the building's exterior lines. It featured a thick collar and heavy scoring, matching the existing field tile. Ludowici was able to use a signature ridge tile, the #211 ridge, to recreate the same look on the new structure. The same custom texture and 14 custom color blend were applied to the #211 ridge tile to reproduce the same visual effects on the ridges of the new addition.



For more information about Ludowici's historic restoration capabilities, please visit [www.ludowici.com/products/roof-tile/custom-tile](http://www.ludowici.com/products/roof-tile/custom-tile)