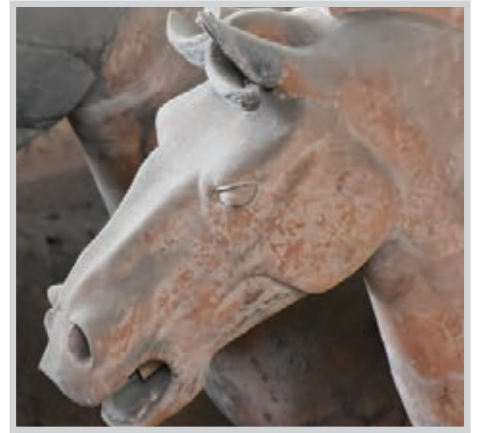




LUDOWICI®

Trusted. Timeless. Terra Cotta.



LUDOWICI®
Trusted. Timeless. Terra Cotta.





*Ohio State
University's
Orton Hall is
transformed
at night with
illuminated
historic
Ludowici
tower tile.*


LUDOWICI®
Trusted. Timeless. Terra Cotta.



ABOVE Asheville High School shows off its recently completed historic roof renovation, using Ludowici Provincial Shingle tile.



Since 1888, architects, homeowners, universities, and commercial and government clients have turned to Ludowici for uniquely beautiful architectural terra cotta products that stand the test of time.

Our clay tiles are the highest quality available, which is why they adorn thousands of historic and newly built structures across the world. Meticulously crafted in our New Lexington, Ohio, plant from locally sourced raw materials, our products are infinitely customizable and carry a 75-year warranty.

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*Ludowici is your premier source for
architectural terra cotta roof tiles,
quarry tile flooring, and wall cladding.*

*For more information, including detailed
product information and installation manuals,
please visit **ludowici.com***

Ludowici
4757 Tile Plant Road
New Lexington, Ohio 43764
ph: (800) 945-8453

Front Cover:
*A collage of Ludowici roof tile mock ups
and inspiration photography.*

Back Cover:
Ludowici color sample chips.

LRT-800

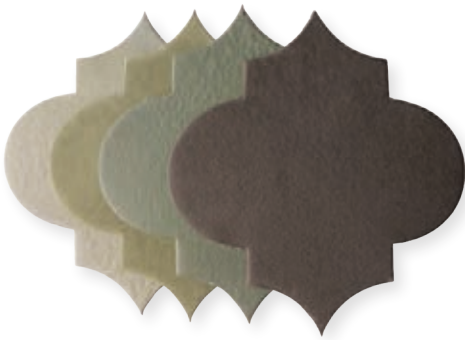
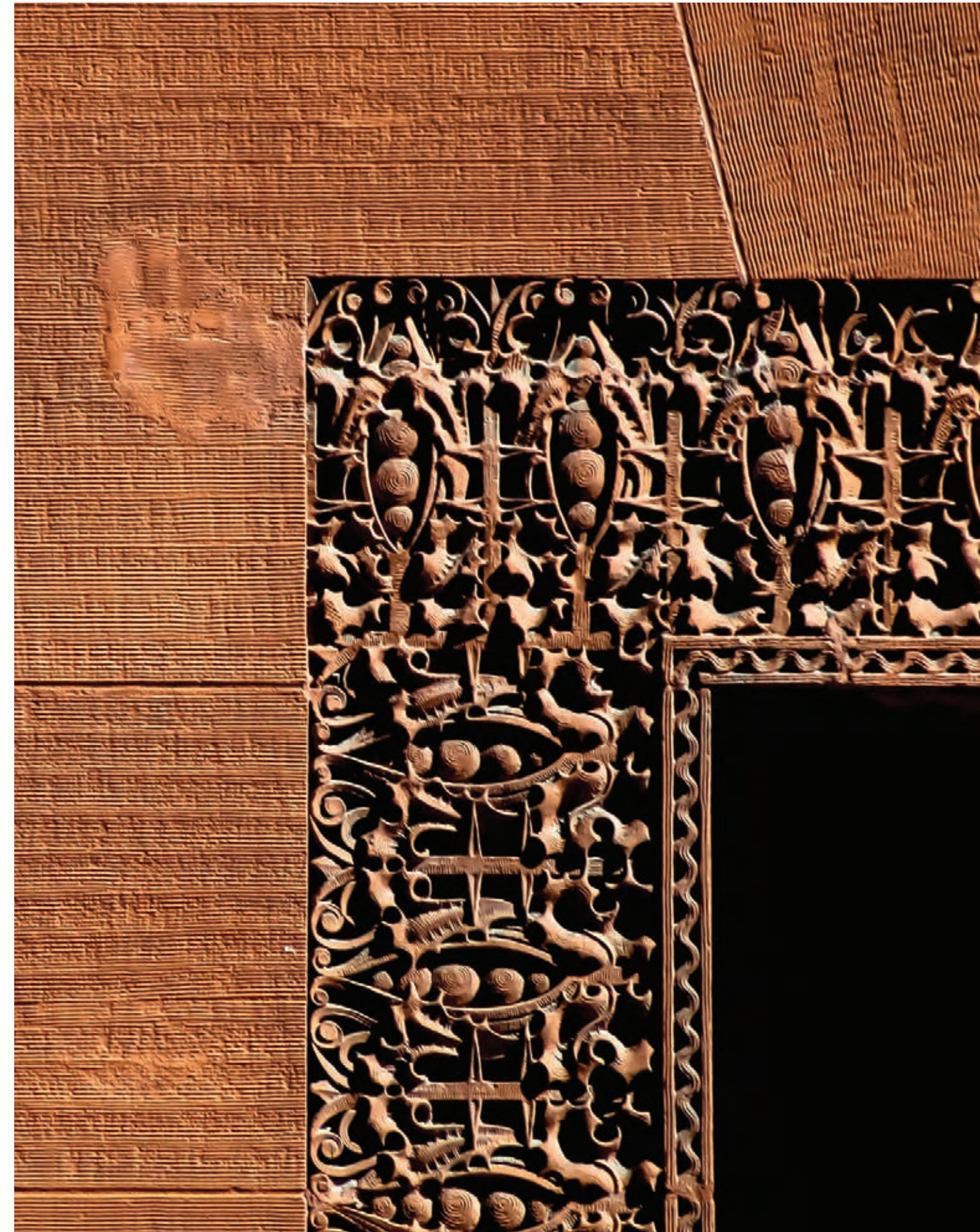


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WHY TERRA COTTA Clay offers the original purity and unadulterated beauty of an organic material. A chameleon of the materials world, clay can be formed into an infinite number of looks: rough or sophisticated, understated or exaggerated, bold and bright, or subtle and subdued. Immersed in this fascinating material, Ludowici builds upon the inherent potential of clay while maintaining the deepest respect for its fundamental nature. Terra cotta is noble in its simplicity. Honoring its authenticity allows clay to become a flexible, modern, and versatile material. Beautiful from day one, its personality is cultivated over a period of decades without ever losing its color, defying age in a way that slowly allows it to acquire a unique patina only achieved with natural materials.

Clay is to a large extent an artistic and environmental endeavor. Particularly well suited to glazing, terra cotta lends itself with ease to even the most inventive of color schemes. Bright and rich colors in matte or gloss finishes can revive, revitalize, and reinvent buildings. It welcomes daring patterns, and haphazard, unexpected color pairings with the glazes providing a contrast



between imagery and material. Terra cotta sets no limits on creativity. Roofs and façades alike bear testament to the power of its graphical expression. Malleable and obedient, terra cotta follows lines, contours, breaks, and inclines. It handles adventurous angles and the most complex of architectural morphologies with ease.

The expressive power of terra cotta invites a playful approach to architecture. Those contemplating this material in all its forms are usually surprised by the possibilities. Whether your eyes are drawn to a dramatic array of vertical sections or an impressive modern-day mashrabiya, it is easy to find yourself charmed by the power of terra cotta's geometric duality. Terra cotta is appropriate for a multitude of architectural uses: roofs that groove to the rhythm of an unexpected combination; façades that stretch to infinity thanks to the clean lines of extra-long bricks; glazes catching the daylight with an iridescent enamel; flooring configured to lead the way through a built environment. The fascinating materiality, impressive timelessness, and incredible durability make terra cotta the material of choice for projects today, and will no doubt continue to spark the imagination of the designers of tomorrow.



THE HISTORY OF TERRA COTTA

For thousands of years in the villages and cities of old-world Europe, Asia, and beyond, clay roofing has been a pillar of architecture and design. Clay is a gift from the earth discovered by our ancestors to build their homes and protect their cities. It has artfully and durably provided shelter and character through its natural properties, harnessed from the very land surrounding these human habitations. It is one of the oldest building materials consistently used since pre-historic times. Terra cotta has been the material of choice to create art, like the Burney Relief in ancient Mesopotamia, and tomb reliefs in early Christian art. The Chinese used clay to make pottery in 10,000 B.C.E. The Greeks used clay to make temple ornament, and the Romans to make civic buildings. Its popularity grew during the Italian Renaissance. By playing with shapes, volumes, dimensions, or textures, terra cotta reinvents itself to meet the challenges of today and tomorrow, opening up new opportunities for architectural interpretation.

The name terra cotta is derived from the Latin term “Fired Earth.” Clay roof tiles are made with four ancient, organic ingredients: clay, air, fire, and water. Many roof tile profiles are still shaped

in the likeness of the earliest learned techniques. For example, barrel tiles get their convex silhouette from centuries of molding clay over one's thigh. Multiple workers would produce a wide range of differently shaped tiles, depending on their leg size, and that's also why they're wider at one end than the other. After shaping, the dried clay mixture was "baked" over a fire pit at about 1,112 degrees Fahrenheit, resulting in the most natural, durable, and sustainable material available. Because terra cotta clay is both widely available and affordable, it has been used throughout the ages to make clay tile, a material that defines iconic roof-lines in towns and villages around the world.

HOW TERRA COTTA TILES ARE MADE TODAY

The manufacture of clay tile roofing and terra cotta ornament is an artistic process combining old-world craftsmanship with modern production technology. Making tiles from terra cotta is as simple and natural as it sounds: take dirt, mix it with shale, and add fire—the result is a durable product that lasts a lifetime. Raw clay is ground to a powder, water

is added, and then specific profiles are formed from extrusion dies or pressed into shape by molds. For custom and specialty tiles, hand-made plaster patterns with top and bottom molds are fabricated.

Following the forming process, a full range of colors, textures, and patterns is possible with a series of glazes. After glazing, unfired tiles are then dried before they reach the kiln to remove excess moisture from the clay. By the time the tile reaches the tunnel kiln, they are around 80 percent of the way through production. Ludowici's tunnel kiln is 350 feet long and set within a hydraulic water system to seal the kiln's openings. Firing is one of the most important techniques in the process—too much or too little heat can cause unwanted defects and low-quality tile. Ludowici tiles are kiln-fired at 2,100 degrees Fahrenheit for 24 hours so that the color glaze is permanently fused onto the tile. This production process makes for a dense, vitrified material with exceptional strength while keeping water absorption at less than 1 percent.



Along with the obvious aesthetic qualities, Ludowici is attractive for its ability to withstand any environment over a lifetime—a direct result of our manufacturing process. We not only consider the lifetime of our product, but the lifetime of your structure as well. Terra cotta is a product that is made to last and withstand, or outlast, the life expectancy of its habitat. The durability of Ludowici's ASTM Grade 1 tiles is why our terra cotta ranks far above the rest. With years of extensive research and experience, our artisans are able to match almost any tile or color from any style or structure.

OUR COMMITMENT TO SUSTAINABILITY

We are committed to manufacturing architectural terra cotta that honors the earth it came from. Ludowici's respectful manufacturing processes allow our terra cotta to retain its natural beauty, which is often lost in other products through overprocessing and chemical interference. Our goal is to design terra cotta products that stand the test of time and are made with zero waste. Our tiles are 100 percent recyclable, energy-efficient, chemically inert, and free of toxic and synthetic ingredients, making them forever safe.



Ludowici tiles are made of locally sourced, natural materials (clay and water), and their fabrication incorporates unique processes that yield zero waste. Each glaze is created without chemical overprocessing so that the natural beauty of the clay is preserved. Excess unfired clay is recycled back through production, while unwanted, old, or spare fired-clay tiles can be crushed and recycled for such future needs as walkways and roads. Our tiles do not require chemical cleaning, which helps protect the environment from harmful runoff. Ludowici's factory kilns are heated with natural gas, and this kiln heat is recycled back in to warm the plant and heat our drying ovens. Heating with natural gas eliminates the need for polluting smokestacks. Additionally, when a clay mine is depleted, it is covered over with topsoil and reintegrated into its original landscape.

With our environmentally friendly processes, terra cotta is a smart choice in green and sustainable building. Choosing our natural, environmentally friendly material allows for a smaller footprint, which is one step in the right direction.

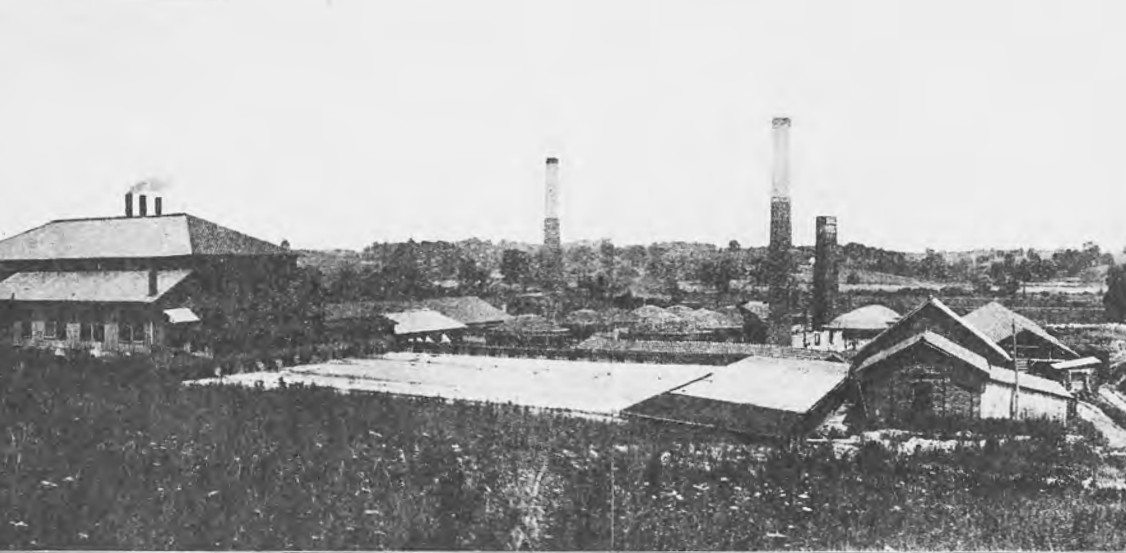


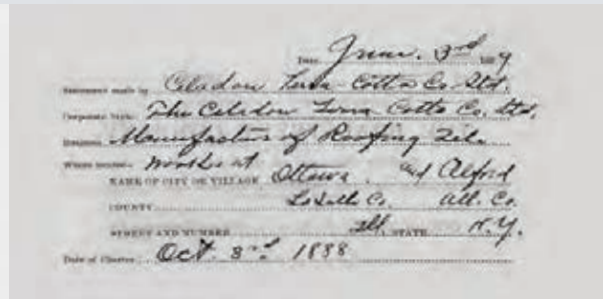
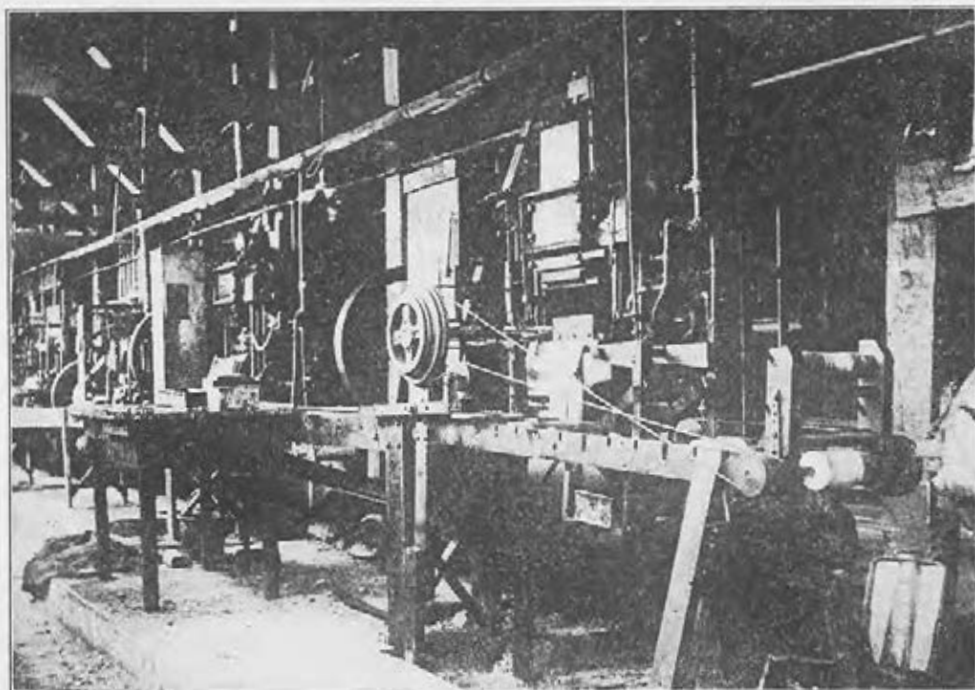
Fig. 184—General View of the Plant of the Ludowici-Celadon Co., at New Lexington, Ohio.



Fig. 46—Quincy Clay Gatherer at Work in Pit of Ludowici-Celadon Co., Chicago Heights, Ill.



Fig. 103 —Home-made Reel Cutter for Cutting Blanks. Ludowici-Celadon Co., Alfred, N. Y.



THE HISTORY OF LUDOWICI

The Ludowici legacy of terra cotta craftsmanship began nearly 400 years ago in Rome, Italy, where the Ludovisi family came to be known for their expertly crafted clay products. This prominent family of potters produced high-quality roof tile used across Italy and its surrounding Mediterranean countries.

As demand grew for Ludovisi's artistry and know-how, a branch of the family migrated across the Alps to Jockgrim, Germany, during the late 1800s to grow their business under the Germanized name Ludowici (pronounced "Ludo-we-see"). It was here that Carl Ludowici, the leader of the expansion north, perfected his manufacture of clay roof tile widely used throughout Europe. Carl and his sons, Karl and Wilhelm, developed dozens of patents and manufacturing techniques that soon became the incentive for another great expansion. Karl took care of the commercial affairs, while Wilhelm, the more creative of the two, developed new products. Wilhelm Ludowici subsequently developed the Z1 interlocking tile and the turret press, which would change the course of the roof tile industry and help the company make an economic breakthrough. On May 7, 1881, he applied for a patent for the Ludowici Z1 interlocking tile, which is a prototype of many tiles manufactured today. It simplified production, transportation, and assembly while increasing the durability of the roofs.

The late 1880s proved an exciting and uncertain time. Brothers Karl and Wilhelm saw that the company needed to prepare for a new era. Wilhelm recognized the growth opportunity abroad early on and that sending Karl to build a new factory in America would pay off tremendously. The tile roofing industry had received global interest, and an opportunity was opening up in the West with the United States' lucrative market and low-wage alternatives. The Ludowicis took a leap of faith to expand into the new world and made Chicago, Illinois, their next home.

At the time, "the windy city," in a rebuilding frenzy after the Great Chicago Fire, was quickly becoming a technological hub for new building materials and methods. The modern skyscraper, the elevator, and modernized manufacturing facilities were all conceived during this boomtime. Next came the 1893 World's Fair (also known as the World's Columbian Exposition) to celebrate the 400th anniversary of Christopher Columbus's arrival in the New World

OPPOSITE A data card shows Celadon's date of charter as October 3rd, 1888. Historical images depict a day in the life of a Ludowici-Celadon clay worker in the late 1800's. Clay was gathered from the pit by a horse and plow and carried to railcars for transport to the factory.



LEFT The Ludowici-Celadon Co. plant in New Lexington, Ohio circa 1918.

in 1492. Carl Ludowici saw the fair, on 690 acres in Jackson Park, as an opportunity to present his terra cotta roof tile to the builders and architects who worked on the neo-classical city. Together, Carl (now Americanized with a “C”) Ludowici and co-founders Henry W. King and Cyrus I. McCormick founded the Ludowici Roof Tile Company in 1893. Their representative office address was located at the Monroe Building at 104 S. Michigan Avenue, Chicago, and their first factory in the nearby suburb of Chicago Heights.

Ludowici’s debut and exposure at the World’s Fair were a success. Remarks from architects John Wellborn Root and Daniel Burnham pointed to the fair as a prototype for what they imagined a city should be: with “symmetry, balance, and splendor.” Many prominent architects designed the fair’s “great buildings,” earning it the nickname “White City” due to the white facades of the fourteen

massive structures. In the years following, to serve increased demand for this handsome, organic, classical material, the Ludowici Roof Tile Company expanded their operations into Illinois, Kansas, New York, and Georgia. Frank Lloyd Wright and H. H. Richardson became frequent customers, commissioning Ludowici roof tile and decorative elements for their projects.

The manufacturing boom of the late 1800s also saw the creation of the Celadon Roofing Tile Company in Alfred, New York, in 1888. The word “celadon” is of French origin and describes a shade of blue-green. The earliest version of its adaptation dates to between the 10th and 13th centuries, citing the color of ceramics made famous by the Manchu of China during the K’ang and Ch’ieng Lung Dynasties. The Manchu demanded a color that was to be “as blue as the sky and as green as the sea.” This color was further advanced through a French novel in

which Count Celadon, a traditional hero in French literature, wears a flowing cape “as blue as the sky and as green as the sea.” Celadon’s name was associated both with the blue-green colors of his cloak and with the Chinese ceramics entering Europe.

Under the leadership of George Babcock, then president of the Celadon Roofing Company, Celadon evolved their product line from decorative terra cotta and chimney pots to innovative clay roof tile. By 1889, Babcock had taken out twenty-eight patents for roof tile patterns and improvements, including the Conosera roof tile profile, a revolutionary interlocking tile considered the finest roofing product ever invented and is still manufactured by Ludowici to this day. At the turn of the 20th century, Celadon expanded its manufacturing capabilities by acquiring the Imperial Brick Plant in New Lexington, Ohio. Taking advantage of the rich local clay deposits, Celadon converted this plant from a brick

maker to the largest clay roof tile manufacturing facility in the country.

The Celadon Roofing Company’s success caught the eye of Ludowici, and in 1906 the Ludowici Roof Tile Company of Chicago purchased both the Celadon Roofing Tile Co. and the Western Roofing tile Co. to form what was then called Ludowici-Celadon, making them the largest terra cotta roofing tile company in the United States. The combined companies operated five manufacturing plants across the country—in Illinois, Kansas, New York, Georgia, and now, Ohio.

The early 20th century was fraught with challenges. Plant fires, a stagnating economy and the resulting Great Depression forced Ludowici-Celadon to adapt through plant consolidations and product diversification. By World War II, Ludowici-Celadon had just two operational facilities in service—one in New



Modeler William Kenyon shown next to a gigantic decorative tile for the Finch Building in Scranton, Pennsylvania.

Lexington, Ohio, and the other in Coffeyville, Kansas. As the war escalated and nearly all construction ceased, the factory shifted gears. Employing about 200 women for the duration of the war, the factory converted to making decorative pottery, hand-decorated cookie jars, art tiles, and other tableware. Any roof or floor tiles produced during this time were contracted for military installations, like Hickam Field at Pearl Harbor in Hawaii.

After the war, construction rallied but the building industry's focus shifted away from quality and toward expedient affordability. As a result, terra cotta roofing fell from favor. By this time, Ludowici-Celadon had consolidated all manufacturing to New Lexington, Ohio. A few decades later, in the 1970s, new-product failures and years of low-quality construction led the building industry to turn its sights once again to high-quality construction for commercial, institutional, and residential projects. By 1976, Ludowici-Celadon was purchased by CSC, who took on major repairs to the plant buildings, dryer renovations, and continued improvements to the tunnel kiln. CSC sold Ludowici-Celadon to CertainTeed in 1989, and the Ludowici-Celadon name was simplified to Ludowici Roof Tile. CertainTeed further improved Ludowici's production with a new state-of-the-art kiln and reconfigured the factory layouts for greater efficiency.

Positive changes came in 2003 when Ludowici was acquired by Terreal, Europe's largest manufacturer of clay construction products based just outside of Paris, France. The 2000s were a time to refocus operations on evolving market trends to include new product development, expanding color capabilities, and offering varied surface textures. Today, Ludowici's catalog is the most extensive profile, color,

and texture collection in the marketplace, with an offering that also allows for extensive customization capabilities. To showcase these capabilities, in 2007 Ludowici built the Factory of Ideas design center next door to their corporate headquarters and manufacturing plant in New Lexington, Ohio. This unique hands-on facility allows visitors to work one-on-one with experts to design a customized roof.

Ludowici entered the terra cotta cladding market in 2008 offering unique terra cotta building envelope solutions through industry partners. Notable exterior cladding projects include the Music and Acoustical Research Center in Paris, France, designed by architect Renzo Piano and the Federal Reserve Building in Houston, Texas, designed by architect Michael Graves.

More recently in 2019, Ludowici opened the first of its kind showroom and conferencing space in the heart of the Dallas, Texas, Design District. The showroom displays high-end and sustainable building surface materials in vibrant colors and textures surrounded by complimentary surface-material vignettes. Luxury partner products join the many elegant Ludowici products for a convenient one-stop design source to create any major building surface.

For over a century, though wars and peace, booms and busts, thousands of architects have chosen Ludowici for their projects' roofs, walls, and flooring. From the good earth of Southeast Ohio, Ludowici handcrafted tiles are uniquely beautiful. With gorgeous colors that never fade, it has adorned buildings of all architectural styles. From historic homes and Ivy League universities to the White House and Wrigley Field, Ludowici has remained the leading choice for trusted, timeless, terra cotta.

THE MONROE BUILDING

CHICAGO, ILLINOIS

The Monroe Building in downtown Chicago, Illinois, was once home to the original corporate headquarters of Ludowici Roof Tile. Shortly after the 1893 Chicago World's Fair, Carl Ludowici took a leap of faith and founded the Ludowici Roofing Tile Company. The first manufacturing facility was built in Chicago Heights, Illinois, just south of the city, and soon corporate headquarters moved into the Monroe Building.

Constructed in 1912 by the architectural firm of Holabird & Roche, the building sits at 104 S. Michigan Avenue. Holabird & Roche was one of the most prominent architectural firms in Chicago at this time and was revered for their contribution of skyscrapers to the city's skyline. This 16-story building features decorative terra cotta and granite exteriors in Gothic-Romanesque style.

One of the largest commercial installations of Rookwood Pottery tile dresses the vaulted ceilings of the Monroe Building's downstairs lobby in a dazzling display of blues and aquas.

Almost exactly 100 years later, the building underwent a large renovation, held to the highest of historic preservation standards. Ludowici, the original manufacturer of the T-12 Spanish tile roof, was brought in to participate in the renovation. The original green Ludowici roof was custom matched and restored to fit the original profile.

Holabird & Roche, now Holabird & Root, was brought back in to participate in the restoration, which was completed in 2012.



THE MONROE BUILDING
104 S. Michigan Street, Chicago, Illinois
PRODUCT: *Historic T-12*
PHOTOGRAPHY: *Jill Paider Photography*



CELADON TERRA COTTA COMPANY
MANUFACTURING PLANT

ALFRED UNIVERSITY

ALFRED, NEW YORK

In the late 1880s, Alfred, New York, discovered their city was geographically positioned on riverbeds containing high-quality clay, the kind that could be used to produce durable terra cotta products. By 1889, a small group of local Alfred entrepreneurs founded the Celadon Terra Cotta Company with the intent to capitalize on this new clay finding to manufacture terra cotta items such as bricks, roof tiles, and even decorative ornamental tiles for building exteriors. The Celadon Terra Cotta Company soon prospered and expanded. In 1892, the “Terra Cotta” building was established as a combination office and product display center. Several examples of their distinctive tiles were set into the exterior walls so prospective customers could view and admire what was available for purchase. Because of its unusual nature, the now historic Terra Cotta building has the honor of being registered as an official landmark listed on the National Register of Historic Sites. At the time, a replica of the building was produced and exhibited at the 1893 World’s Fair in Chicago, landing Celadon closer to Ludowici territory.

The booming new terra cotta manufacturer wowed the 1893 World’s Fair enough to catch the eye of the Ludowici Roofing Tile Company, which was also known for their high-quality terra cotta man-

ufacturing in Chicago. Ludowici took an interest in Celadon as they had a heavily Germanic and Northern European workforce trained in working with clay able to withstand brutally cold winters, and who were regarded as experts in making beautiful and lasting tiles. In 1906, the Ludowici Roofing Tile Company purchased the Celadon Terra Cotta Company, forming Ludowici-Celadon.

Located near the Celadon manufacturing grounds, Alfred University capitalized on this new clay potential and became a birthplace for American ceramics by founding one of the most esteemed ceramic engineering programs in the United States. Over time, the manufacturing facility expanded until it occupied the space where, today, Alfred University’s McLane Physical Education Center and the football field preside. In 1909, the manufacturing plant was destroyed by fire, all except for the Terra Cotta building, which stood apart, on North Main Street. The value of the Terra Cotta building lies not only in its relationship to local ceramics, but also as a reflection of Victorian thought and tastes, a unique artifact of our past. To Alfred University, this historic building is a key reminder of the legacy of the Celadon Terra Cotta Company. Today, Ludowici’s connection with Alfred remains intact as several team members are graduates of Alfred University’s ceramic engineering program.



c o m m e r c i a l

Biltmore Estates, NC
Broadmoor Hotel, CO
Del Lago Casino, NY
Disney Resorts
Ernest Hemingway House, Cuba
Fort Worth Stockyards, TX
Frank Lloyd Wright
Girls, Inc. of Omaha
Grand Bohemian Hotel, NC
Grove Park Inn, NC
Highland Park Village, TX
Hotel Hershey, PA
Hyatt Place Hotel, OH
In-n-Out Burger
Junipero Serra Museum, CA
JW Marriott & Resorts
Mars Candy Museum
Metropolitan Museum of Art
Miller Brewing Co. Milwaukee
Moncrief Cancer Institute, TX
Monroe Building Chicago
National Baseball Hall of Fame, NY
National Gallery of Art, DC
New York City Center Dome
New York Life Building
New York Times Building
New York World’s Fair, 1939
Plaza Hotel, NY
ProMedica Steam Plant HQ
Reader’s Digest Association old HQ
Restoration Hardware
Reynolda House Museum, NC
Ritz Carlton
Rochester Regional Hospital, NY
Shark Restaurant, Palms Las Vegas
Smithsonian’s National Zoo, DC
Somerset Resort, Turks & Caicos
Top of the Rock, NYC

Tyler Arboretum, PA
Union Station, Denver
Union Station, St. Louis
Urban Outfitters Headquarters, PA
Washington National Airport
Washington Senators Baseball Club
Whitecastle Headquarters, OH
Whole Foods
Wichita Airport, KS
Wrigley Field
Xanadu Mansion, Cuba

c l u b s & g o l f

Albany Country Club
Aronimink Golf Club
Asheville Country Club
Blind Brook Country Club, NY
Carl Fisher Clubhouse, FL
Colonial Country Club, TX
Columbia Country Club, MD
Columbus Country Club, OH
Congressional Country Club
Connoquenessing Country Club
Country Club of Miami
Country Club of Noth Carolina
Douglaston Club
Dunwoody Country Club, GA
East Lake Golf Club, GA
Four Seasons Dallas
George Wright Golf Course
Grandover Country Club
Greenville Country Club, SC
Hacienda Country Club, CA
Hartfield Golf Club, PA
Houston Country Club
Jupiter Hills Country Club
Kenwood Country Club, OH
Louisville Country Club, KY
Merion Cricket Club, PA

Metairie Country Club
Morraine Country Club
New Orleans Country Club
Oahu Country Club
Oklahoma City Golf & CC
Old Warson Country Club, MO
Pine Hollow, NY
Ponte Vedra Inn & Club
Pueblo Country Club, CO
River Crest Country Club
Rolling Hills Country Club
San Antonio Country Club
San Jose Country Club, FL
Seven Canyons Golf Club, AZ
St. Louis Country Club
Stonebridge Country Club, IL
Tehama Golf Club
The Lake Club, FL
The Lodge at Sea Island, GA
TPC Sawgrass, FL
TPC Virginia Beach
Tulsa Country Club
Westchester Country Club
Wilmington Country Club, DE
York Country Club, PA

e d u c a t i o n

Agnes Scott College
Alvernia University
Aurora University
Boston College
Clemson University
College of William and Mary
Columbia University
Cornell University
Duke University
Emory University
Flagler College
Florida State University

Harvard University
Indiana University
James Madison University
Louisiana State University
Miami University
Mississippi State University
New Mexico State
Northwestern University
Ohio State University
Ohio University
Oklahoma State University
Oregon State University
Princeton University
Purdue University
Rice University
Sam Houston State University
Southern Methodist University
Stanford University
Texas A&M
Texas Christian University
Texas State University
Texas Tech University
The Waldorf School of PA
Tulane University
UNC Chapel Hill
University of Chicago
University of Colorado
University of Florida
University of Georgia
University of Houston
University of Illinois
University of Michigan
University of Minnesota
University of Mississippi
University of Southern California
University of Tennessee
University of Texas
University of Tulsa
University of Wisconsin

University of Wyoming
Valdosta State University
Vanderbilt University
Vassar College
Wake Forest University
Washington University
Yale University

g o v e r n m e n t

Boston Public Library
Canadian Niagara Power Station
Central Intelligence Agency, DC
Cincinnati City Hall
Colorado State Capitol
Eisenhower Presidential Museum
Ellis Island
FBI Academy, Quantico, VA
Federal Reserve, DC
Federal Reserve, Houston
Federal Trade Commission, DC
Federal Triangle, DC
Franklin Public Library, MA
Internal Revenue Service, DC
National Science Building, DC
New York State Capitol, Albany
Panama Canal
Pennsylvania State Capitol
President Lincoln’s Cottage
The National Archives, DC
The White House
U.S. Army Corp of Engineers, LA
U.S. Dept. of Agriculture, DC
U.S. Dept. of Commerce, DC
U.S. Dept. of Justice, DC
U.S. Dept. of Labor
U.S. Dept. of the Interior / NPS
U.S. Environmental Protection Agy.
U.S. Mint, Denver
U.S. Senate, Dirksen Building

NOTABLE PROJECTS

m i l i t a r y

Barksdale Air Force Base, LA
Camp Lejeune, NC
Camp Pendleton, CA
F.E. Warren Air Force Base, WY
Fort Benning, GA
Fort Bragg, NC
Fort Collins, CO
Fort Meade, MD
Fort Missoula, MT
Fort Sam Houston, TX
Fort Ticonderoga, NY
Hickam Air Force Base, HI
McChord Air Force Base, WA
NAS Jacksonville, FL
NAS North Island, CA
National Guard, DE
Norfolk Naval Shipyard, VA
Offutt Air Force Base, NE
Patrick Air Force Base, FL
Pine Bluff Arsenal, AR
Quantico Station, Marine Corps
Randolph Air Force Base, TX
U.S. Military Academy West Point
VA Hospitals
Washington Navy Yard
Wright-Patterson Air Force Base, OH

r e l i g i o u s

Asheville First Baptist, NC
Basilica of the National Shrine, DC
CB of the Immaculate Conception, CO
Liberty United Methodist, MO
Lutheran Church of Hope, IA
Our Lady of Angels Monastery, AL
Tam Bao Temple, LA
The Athenaeum of Ohio



RESIDENTIAL

LUDOWICI TILES have some of the lowest water absorption rates of any tile on the market, at an average of less than 1%. Moisture absorption degrades all products, and every climate poses a risk of water damage—especially areas of heavy rainfall, exposure to coastal salt air, or the experience of freeze-thaw cycles causing structural stress. For example, in climates when temperatures reach below freezing then climb back above, moisture collected in tiles repeatedly undergo what are called freeze-thaw cycles. Over time, tiles with higher moisture absorption rates are subjected to larger mechanical stress, and eventually crack or spall. Another example, in coastal climates with a more porous tile, salt crystals infiltrate open pockets then begin to expand and contract. Once sea salt permeates the body of a tile, it will fail. With salt air able to travel well over a mile inland from the coastline, you need the clay body of a Ludowici tile that is made to resist such complications. Additionally, high-quality tiles with smooth surfaces and very low water absorption rates, like those produced by Ludowici, dramatically limit mildew, algae, and moss growth by preventing moisture from entering the clay body of the tile in the first place. Virtually maintenance-free, our tiles last longer and significantly reduce the need for chemical cleaning. Rest assured with Ludowici our tiles always exceed Grade 1 requirements for moisture in any environment.

PRODUCT: Classic 16" Interlocking Tile
COLOR(s): 65% Custom Color 232-16G/211-16 Mist M>H;
35% Custom Color 232-16G/183-16G Mist M>H
ARCHITECT: Harrison Woodfield Architects



MAUI RESIDENCE

MAUI, HAWAII

*LUDOWICI'S RESIDENTIAL PROJECT
OF THE YEAR AWARD WINNER IN 2018.*

As Ludowici's 2018 Residential Project of the Year award winner, this unique home sits on a stunning ocean peninsula in Maui, Hawaii. Built in the late 1990s, the original design featured deep overhangs and smallish windows amid dense tropical foliage. Over time, the home felt dated and in need of a full reconfiguration. Frustrated by the limited ocean views and absence of flow from room to room, the owner opted for a full renovation to breathe life back into the traditional design.

Harrison Woodfield Architects was chosen to reorganize the public spaces and to design a complete overhaul of the interiors. Sara Woodfield recognized that the roof, as the first element seen from the water, would be a key feature of the house. The long, overhanging roof was lifted up to allow the clients unobstructed ocean views. Ludowici was brought on board to develop a color scheme and appropriate tile design, choosing a low profile done in contemporary flatwork. Together, Ludowici and Ms. Woodfield worked to capture the many shades of turquoise and

Featured on the cover of *Luxury Home Magazine*,
issue 15.1



PRODUCT: Classic 16" Interlocking Tile
COLOR(s): 65% Custom Color 232-16G/211-16 Mist M>H;
 35% Custom Color 232-16G/183-16G Mist M>H
ARCHITECT: Harrison Woodfield Architects

azure blue that would reflect the water, sky, and large parcel of grass the house sits on, allowing the house to sink into its setting as part of the natural jungle surroundings.

The glazed roof is highly reflective, doesn't gather dust, and will never look dirty. The roof's color scheme was woven from the same palette used in the interiors—which appears in everything from the handmade glass fixtures to the peacock blue of the pool. The re-imagined space draws from the sparkle and shimmer of the water, including

the reflective nature and translucence of the sea, while the roof tile colors brilliantly incorporate the shifting hues of the ocean.

Colors, reflections, materials, shimmering water, and light, grounded by wood, sand, and the earth, make the house a beautiful feature whether approached by land or sea. More importantly, the house has been connected to the site to feel the continuity between the ocean and the living experience, as if you are walking through an ever-changing sculpture.



PRODUCT: *Classic 16" Interlocking Tile*
COLOR(S): 65% Custom Color 232-16G/211-16 Mist M>H;
35% Custom Color 232-16G/183-16G Mist M>H
ARCHITECT: *Harrison Woodfield Architects*

PRODUCT: LudoShake Interlocking Tile
COLOR: Aged Cedar with M1/M13 HR Spots
ARCHITECT: Douglas C. Davis & Associates
(formerly Hannon Douglas)
PHOTOGRAPHY: Jean Allsopp
Lookout Mountain, TN



FORT STEPHENSON PLACE

LOOKOUT MOUNTAIN, TN

This home was designed to take advantage of the stunning views of its surroundings on Lookout Mountain, Tennessee—the highest point in the region, overlooking Chattanooga. Inspired by time spent living in England, the clients appreciated the mountain’s wet, gray weather. Most of the nearby homes follow a 1920s English precedent featuring English Gothic details, but with the clients favoring Cotswold-style homes, the team traveled abroad to closely study Cotswold design.

The house’s front elevation reveals a prominent and steeply pitched roof, while the rear is on a sharp slope, making installation a challenge. The client first considered a wood shake roof, but the mountain’s unpredictable weather made this option impractical. Ludowici recommended Ludoshake, a similar but fireproof product blended in a palette of browns tinged with green—as if in a sheen of growing moss. This color scheme added a beautiful and natural detail to complement the stone exterior. These tonal tiles now carry the weight of the dark, locally quarried stone and timber used throughout, making this home’s approach newly graceful and elegant.

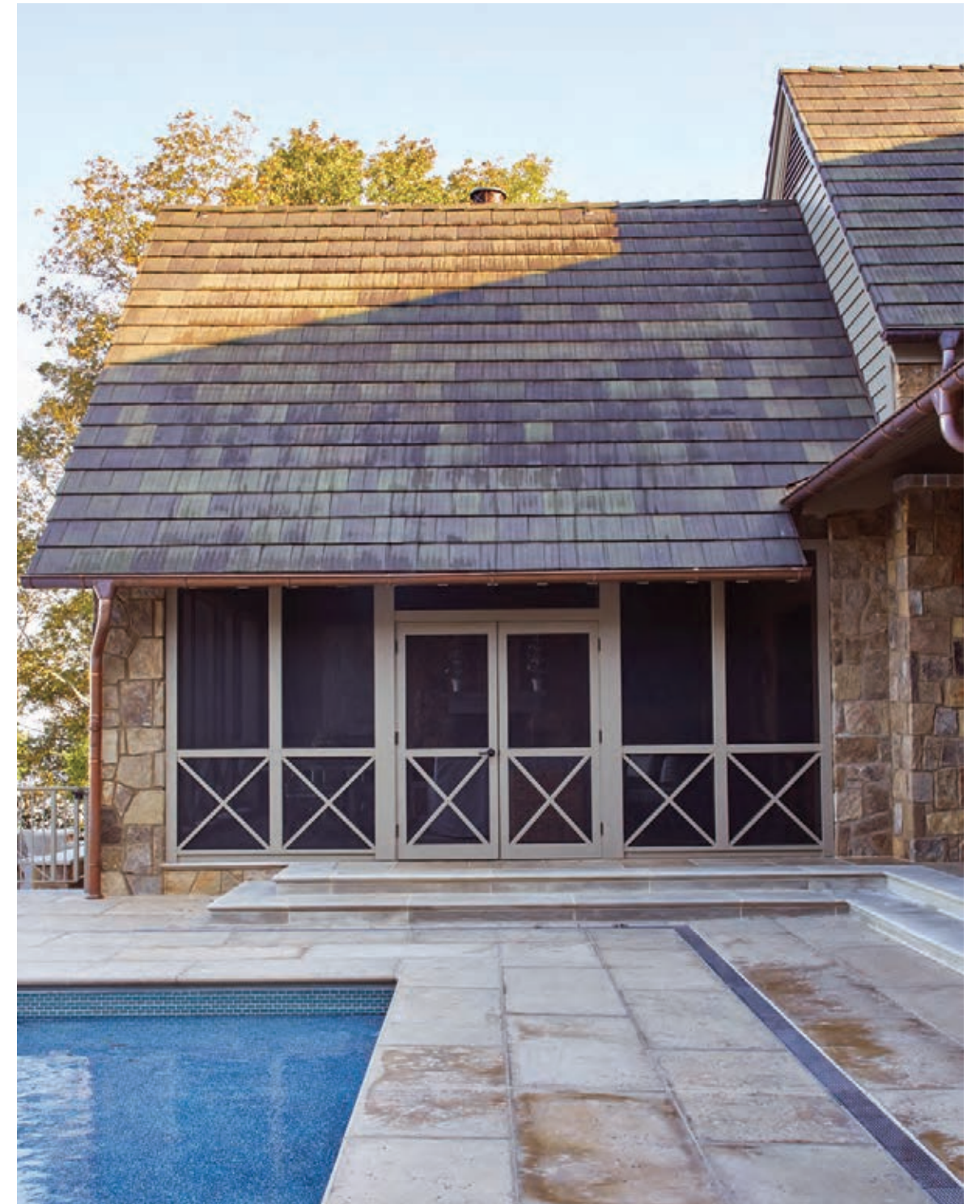
Featured on the cover of *Southern Home* Magazine, September 2019 issue.

PRODUCT: LudoShake Interlocking Tile
COLOR: Aged Cedar with M1/M13 HR Spots
ARCHITECT: Douglas C. Davis & Associates
(formerly Hannon Douglas)
PHOTOGRAPHY: Jean Allsopp
Lookout Mountain, TN





PRODUCT: LudoShake Interlocking Tile
COLOR: Aged Cedar with M1/M13 HR Spots
ARCHITECT: Douglas C. Davis & Associates (formerly Hannon Douglas)
PHOTOGRAPHY: Jean Allsopp
 Lookout Mountain, TN



PRODUCT: LudoShake Interlocking Tile
COLOR: Aged Cedar with M1/M13 HR Spots
ARCHITECT: Douglas C. Davis & Associates (formerly Hannon Douglas)
PHOTOGRAPHY: Jean Allsopp
 Lookout Mountain, TN



Photography: Jean Allsopp



ARCHITECT: Cusimano Architect
PHOTOGRAPHY: Zac Seewald Photography
Houston, TX



DEL MONTE RESIDENCE

Custom Tile | Custom Color Blend





Located on a corner lot at a busier-than-usual intersection in a well-known neighborhood in Houston, Texas, this new English-inspired house was designed to mitigate excess noise. Kelly Cusimano of Cusimano Architect designed the house in a pared-down English style that achieves a modern look, incorporating an “L” shape so that the backyard opens to the street, giving the illusion of a larger yard. He designed all the private sleeping rooms to face the serenity of the center yard.

The architect did not want to cut down any of the large live oaks on the entry approach, so instead, he designed a one-and-a-half-story front elevation low enough to tuck into and exist with the trees. This design solution resulted in a spectacular view, making the roofline a prominent feature of the house. After considering new materials, the team decided that red Ludowici tile would be the most interesting and appropriate feature. This tile has an old-world charm, ages beautifully, and has a rich coloration.

ARCHITECT: *Cusimano Architect*
PHOTOGRAPHY: *Zac Seewald Photography*
Houston, TX

PRODUCT: *Italia Barrel Tile*
COLOR: *Brookville Green*
ARCHITECT: *Fairfax and Sammons*
INSTALLER: *Carpenter's Roofing and Sheet Metal*
PHOTOGRAPHY: *Carmel Brantley*



‘IL CORTILE’

PALM BEACH, FLORIDA

This Mediterranean-style subtropical house, known as “Il Cortile,” centers on a courtyard in the tradition of many early Palm Beach dwellings. The desire to achieve timeless authenticity using well-crafted, robust, and natural materials guided the design process. The Ludowici Italia barrel-style roof of green glazed tiles with flat pans and barrel caps was chosen as a detail that would grow more beautiful with the passage of time. The exterior of the house is a stucco finish with dimensional limestone details recessed into the wall structure. Other prominent exterior features include painted wood windows, doors, shutters, and limed cypress rafter tails.

Honors: Winner of 2017 Shuler Award from the Palm Beach Preservation Foundation

PRODUCT: *Italia Barrel Tile*
COLOR: *Brookville Green*
ARCHITECT: *Fairfax and Sammons*
INSTALLER: *Carpenter's Roofing
and Sheet Metal*
PHOTOGRAPHY: *Carmel Brantley
Palm Beach, FL*





PRODUCT: Italia Barrel Tile
COLOR: Brookville Green
ARCHITECT: Fairfax and Sammons
INSTALLER: Carpenter's Roofing and Sheet Metal
PHOTOGRAPHY: Carmel Brantley
 Palm Beach, FL

PRODUCT: *Languedocienne Barrel Tile*
COLOR: *Castelviel with Old Country Texture*
ARCHITECT: *Moor, Baker and Associates*
PHOTOGRAPHY: *Jessica Glynn*
Vero Beach, FL

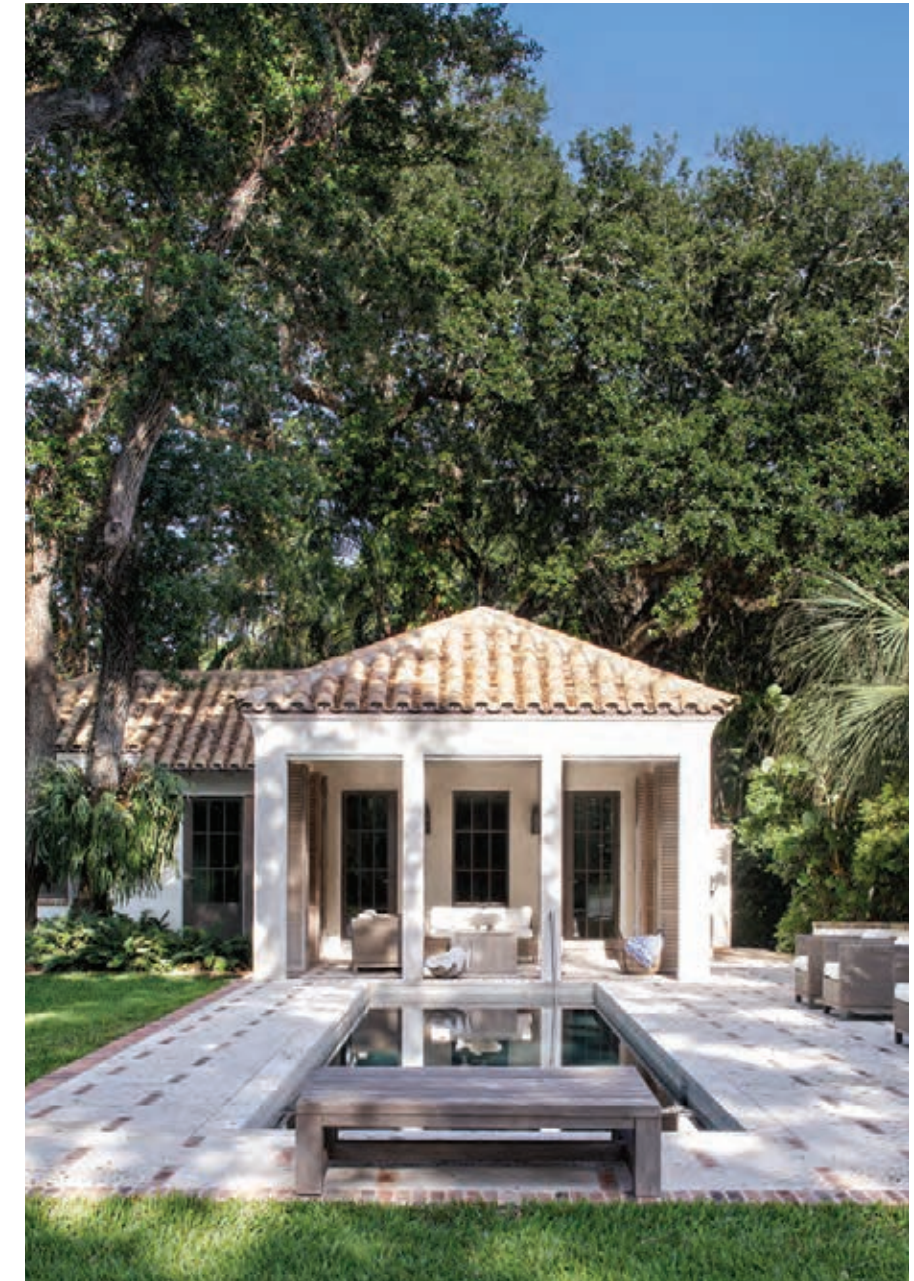


VERO BEACH RESIDENCE

VERO BEACH, FLORIDA

Spanish Colonial architecture is typically known for its stucco exterior and clay roof tile, ranging from the sophisticated and ornate to the rustic and minimal. For this residence, the homeowner and architect worked together to create a new natural space where the interior and exterior exist as one, incorporating a minimalist structure with an old-world aura. On a street canopied with centuries-old oaks, the house is surrounded by natural beauty, sitting just two blocks from the beach. True to its architectural style, it is constructed one room deep to allow breezes to find their way through in humid weather. The homeowner and architect made the decision to choose materials that only get better with time, leading them to Ludowici terra cotta roof tiles. Languedocienne two-piece mission tiles are manufactured in the Occitania region of southern France in an area formerly known as Languedoc-Roussillon. The former condensed Languedoc-Roussillon region bordered Provence and extended to the Pyrénées Mountains, and remains home to some of France’s largest wine producers.

Featured in *Southern Living Magazine*
Sept./Oct. 2019 Issue



PRODUCT: *Languedocienne Barrel Tile*
COLOR: *Castelviel with Old Country Texture*
ARCHITECT: *Moor, Baker and Associates*
PHOTOGRAPHY: *Jessica Glynn*
Vero Beach, FL



PRODUCT: *Languedocienne Barrel Tile*
COLOR: *Castelviel with Old Country Texture*
ARCHITECT: *Moor, Baker and Associates*
PHOTOGRAPHY: *Jessica Glynn*
Vero Beach, FL



AMELIA ISLAND RESIDENCE

Palm Beach Mission | Custom Blend





PRODUCT: Palm Beach Mission Barrel Tile
COLOR(s): 85% Custom Color 129-01M/NS/S2
 15% Custom Color 129-01M/M18 PF
PANS: Custom Color 129-01M/M23
ARCHITECT: Summerour & Associates
INSTALLER: Clarke Brothers Roofing
 Amelia Island, FL



SAINT KITTS RESIDENCE

Colonial Shingle Tile | Tuscany Impressionist



SEVEN CANYONS SEDONA

Spanish 18" | Custom Color CR/25MT3/M13/M7

DALLAS RESIDENCE



PRODUCT: *Palm Beach Mission*
COLOR(s): *30% Weathered S4/M13 Mist*
25% Weathered M7/M13 Mist M>H
25% Weathered 24/M13 Custom Process Flash
20% Weathered M7/M13 Custom Process Flash
INSTALLER: *Precision Construction & Roofing*
Dallas, TX



HILTON HEAD RESIDENCE
HILTON HEAD ISLAND, SOUTH CAROLINA

PRODUCT: *LudoSlate Interlocking Tile*
COLOR(s): *Custom Color Blend*
Hilton Head Island, SC



PRODUCT: LudoSlate Interlocking Tile
COLOR(S): Custom Color Blend
 Hilton Head Island, SC



ARCHITECT: J. Ryan Duffey Architect
INSTALLER: Roofing Specialists, Inc.
Seagrove Beach, FL



SEAGROVE BEACH RESIDENCE

Century Shake | Earth Gray

NAPLES RESIDENCE



PRODUCT: Custom 10" x 18" x 3/4" Shingle
COLOR: M4/19MT1 Hand Roughed w/ L>M Spots
ARCHITECT: Harrison Design
INSTALLER: Roofcrafters, Inc.
Naples, FL





SEA ISLAND RESIDENCE

Century Shake | Earth Gray

PRODUCT: *Century Shake*
ARCHITECT: *Joshua G. Youngner*
DESIGNER: *KMH Design*
PHOTOGRAPHY: *Benjamin Galland*



PRODUCT: *Century Shake*
 ARCHITECT: *Joshua G. Youngner*
 DESIGNER: *KMH Design*
 PHOTOGRAPHY: *Benjamin Galland*

ARCHITECT: Dailey Janssen Architects
BUILDER: Benitz Building, LLC
PHOTOGRAPHY: CJ Walker
Palm Beach, FL



PALM BEACH RESIDENCE I

Classic 16" | Burgundy & Clay Red



PRODUCT: *Classic 16" Interlocking Tile*
COLOR: *Burgundy & Clay Red*
ARCHITECT: *Dailey Janssen Architects*
BUILDER: *Benitz Building, LLC*
PHOTOGRAPHY: *CJ Walker*
Palm Beach, FL



ARCHITECT: *Dailey Janssen Architects*
BUILDER: *Benitz Building, LLC*
PHOTOGRAPHY: *CJ Walker*
Palm Beach, FL



PALM BEACH RESIDENCE II

LudoSlate | Slate Red with Ebony Mist



PRODUCT: LudoSlate
COLOR: Slate Red with Ebony Mist
ARCHITECT: Dailey Janssen Architects
BUILDER: Benitz Building, LLC
PHOTOGRAPHY: CJ Walker
 Palm Beach, FL



PALM BEACH RESIDENCE III



PRODUCT: Classic 16" Interlocking Tile
COLOR: Montpelier Green
INSTALLER: Carpenter's Roofing and Sheet Metal
Palm Beach, FL



PALM BEACH HAVEN

LudoSlate | Ebony Mist



PRODUCT: LudoSlate Interlocking Tile

COLOR: Ebony Mist

ARCHITECT: Dailey Janssen Architects

BUILDER: Benitz Building, LLC

PHOTOGRAPHY: Brantley Photography
Palm Beach, FL



PRODUCT: LudoSlate Interlocking Tile
COLOR: Ebony Mist
ARCHITECT: Dailey Janssen Architects
BUILDER: Benitz Building, LLC
PHOTOGRAPHY: Brantley Photography
 Palm Beach, FL



PRODUCT: LudoSlate Interlocking Tile
COLOR: Ebony Mist
ARCHITECT: Dailey Janssen Architects
BUILDER: Benitz Building, LLC
PHOTOGRAPHY: Brantley Photography
Palm Beach, FL





PRODUCT: LudoSlate Interlocking Tile
COLOR: Ebony Mist
ARCHITECT: Dailey Janssen Architects
BUILDER: Benitz Building, LLC
PHOTOGRAPHY: Brantley Photography
Palm Beach, FL



RESORT READY
RETREAT
ST. SIMONS ISLAND, GEORGIA

PRODUCT: *Century Shake*
COLOR: *Aged Cedar*
ARCHITECT: *T.S. Adams Studio, Architects*
PHOTOGRAPHY: *Emily Followill*
Sea Island, GA





PRODUCT: *Century Shake*
COLOR: *Aged Cedar*
ARCHITECT: *T.S. Adams Studio, Architects*
PHOTOGRAPHY: *Emily Followill*
Sea Island, GA





PRODUCT: *Century Shake*
COLOR: *Aged Cedar*
ARCHITECT: *T.S. Adams Studio, Architects*
PHOTOGRAPHY: *Emily Followill*
Sea Island, GA





PRODUCT: *Century Shake*
COLOR: *Aged Cedar*
ARCHITECT: *T.S. Adams Studio, Architects*
PHOTOGRAPHY: *Emily Followill*
Sea Island, GA

PRODUCT: *Century Shake*
COLOR: *White Cedar*
ARCHITECT: *Harrison Design*
PHOTOGRAPHY: *Atlantic Archives*
Sea Island, GA



HARRISON DESIGN I

Century Shake | White Cedar

PRODUCT: *Century Shake*
COLOR: *White Cedar*
ARCHITECT: *Harrison Design*
PHOTOGRAPHY: *Atlantic Archives*
Sea Island, GA





PRODUCT: *Century Shake*
COLOR: *White Cedar*
ARCHITECT: *Harrison Design*
PHOTOGRAPHY: *Atlantic Archives*
Sea Island, GA



HARRISON DESIGN II

Century Shake | White Cedar

PRODUCT: *Century Shake*
COLOR: *White Cedar*
ARCHITECT: *Harrison Design*
PHOTOGRAPHY: *Atlantic Archives*
Sea Island, GA

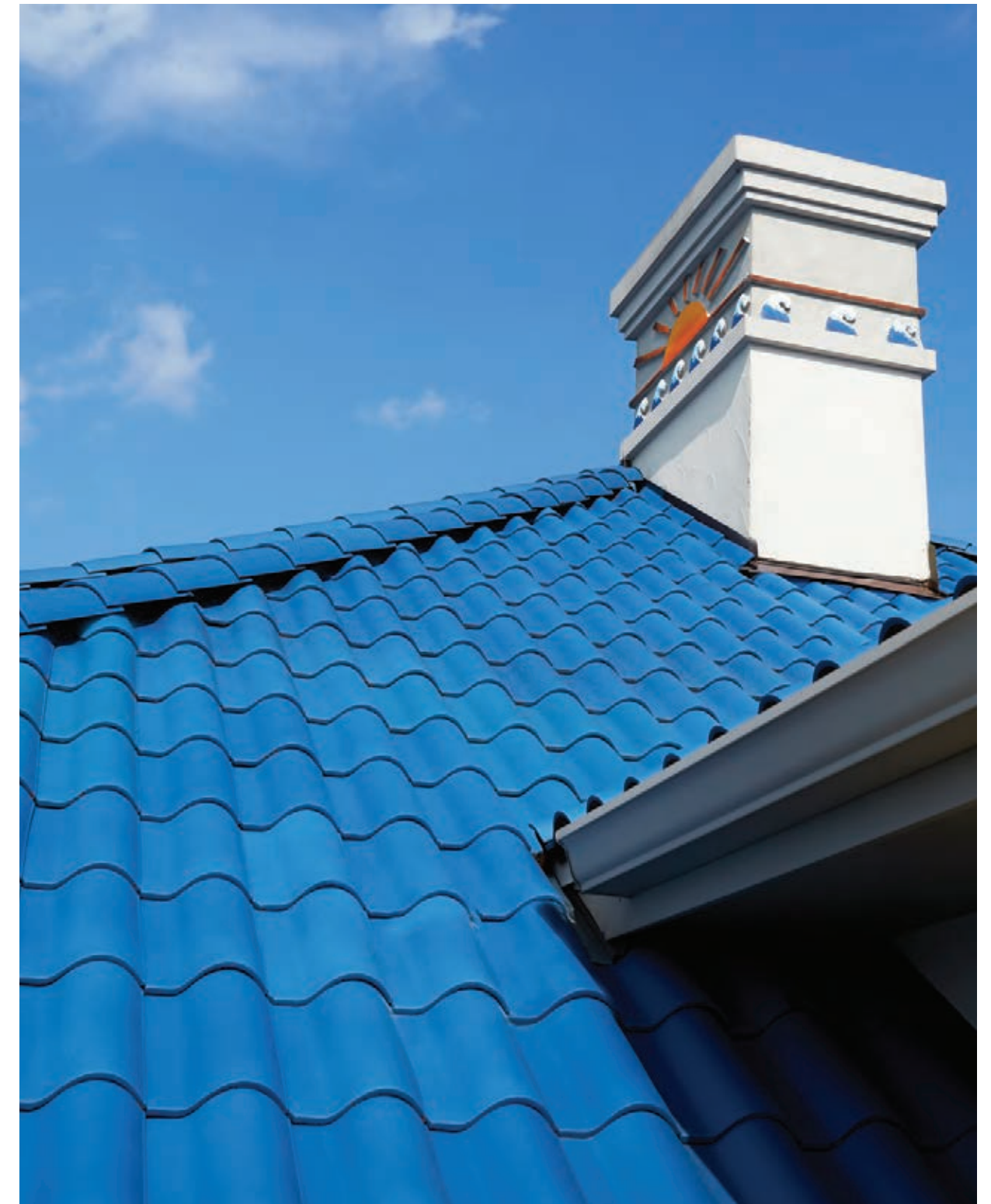




LAKE MICHIGAN RESIDENCE

NEW BUFFALO, MICHIGAN

PRODUCT: Spanish 18" Barrel Tile
COLOR: Custom Dark Blue M37 SM
BUILDER: Orren Pickell
PHOTOGRAPHY: Michael Kaskel
New Buffalo, MI



PRODUCT: Spanish 18" Barrel Tile
COLOR: Custom Dark Blue M37 SM
BUILDER: Orren Pickell
PHOTOGRAPHY: Michael Kaskel
 New Buffalo, MI



PRODUCT: *Spanish 18" Barrel Tile*
COLOR: *Custom Dark Blue M37 SM*
BUILDER: *Orren Pickell*
PHOTOGRAPHY: *Michael Kaskel*
New Buffalo, MI



HOPELANDS RESIDENCE

MIDDLETOWN, RHODE ISLAND

PRODUCT: Custom Historic Shingle Tile
COLOR: Weathered Historic Orange with Ebony Spot M>H
ARCHITECT: Mark P. Finlay
INSTALLER: Kirby-Perkins Construction
PHOTOGRAPHY: Warren Jagger Photography

PRODUCT: Custom Historic Shingle Tile
COLOR: Weathered Historic Orange with Ebony Spot M>H
ARCHITECT: Mark P. Finlay
INSTALLER: Kirby-Perkins Construction
PHOTOGRAPHY: Warren Jagger Photography
Middletown, RI



This French country estate rests on a bluff along the Sakonnet River, stretching across a historic property in Middletown, Rhode Island. The clients wanted to preserve the 1930s design of the original whitewashed brick home and hired Mark P. Finlay Architects to take on the extensive restoration. The architect added ancillary wings to complement the original structure and Ludowici's Custom Historic Shingle Tile along the entire roofline. The weathered orange tile and vivid azure shutters can be seen through an allée of linden trees running along the cobblestone drive. The historically significant landscape and manicured gardens work in harmony with the surrounding vineyards to complement the ambiance of this reincarnated Normandy style property.



PRODUCT: Custom Historic Shingle Tile
COLOR: Weathered Historic Orange with Ebony Spot M>H
ARCHITECT: Mark P. Finlay
INSTALLER: Kirby-Perkins Construction
PHOTOGRAPHY: Warren Jagger Photography
Middletown, RI

PRODUCT: Spanish 18" Barrel Tile
COLOR(S): Tuscany & Terra Cotta Impressionist
ARCHITECT: Good Architecture
BUILDER: Winchester Construction
PHOTOGRAPHY: Katie Martin Studio



MAGOTHY ESTATE

MARYLAND, UNITED STATES



THE WECKBAUGH HOUSE

Yale Memorial Tile | Custom Blend

2016 RESIDENTIAL PROJECT OF THE YEAR WINNER

The Weckbaugh House, designed by architect Jules Jacques B. Benedict, was constructed between 1930 and 1933, and is considered one of the most notable Norman Chateau-style homes in the Denver, Colorado, area.

Mr. Benedict is regarded as one of Colorado's most distinguished architects, having erected a number of well-known landmarks and buildings, many of which have since been listed on the National Register of Historic Places. The Weckbaugh house was thought to be one of his finest residences, built for Eugene Weckbaugh, a prominent Denver businessman, his wife, Ella, and his two daughters. The home became a center of Denver society, mostly due to the couple's often-outrageous daughter, Eleanor Weckbaugh, who was notorious for her elaborate parties. During one such party Eleanor rode her horse up the grand entrance, through the house, and out the back to the landscaped grounds, much to the delight of her guests.

The 25-room mansion boasts ten bedrooms, ten bathrooms, and a glamorous Art Deco-style basement ballroom. Although constructed

during the Great Depression, many craftsmen were able to seek work here during this time, leading to the exceptional quality and skill apparent in the architectural detailing. The house earned its Colorado Historic Register status in 1984.

The two-and-one-half-story mansion has a steep roof, second-story balconies, several chimneys, a five-sided tower bay, and gabled and round dormers. Travertine marble was used liberally for the elaborately carved exterior trim. The roof supports all the sculptural stone quality below and serves as a dominant visual feature.

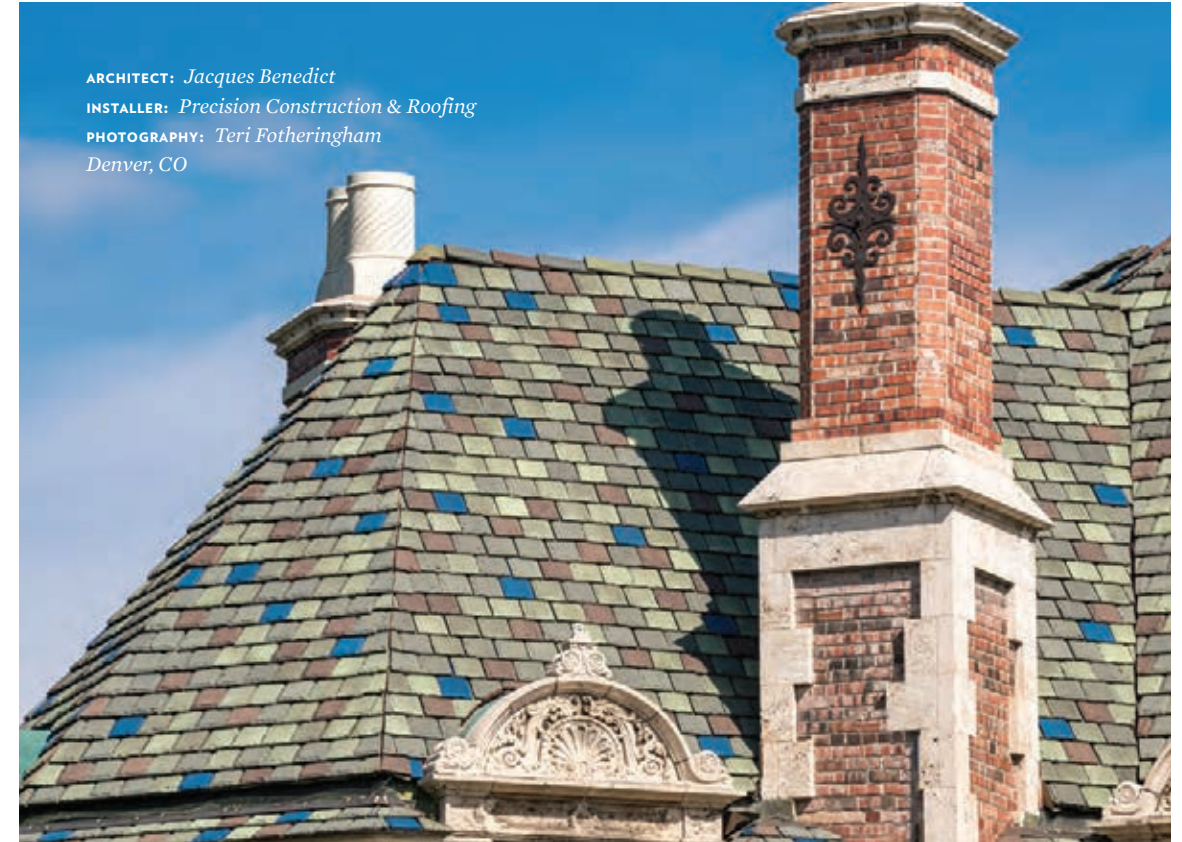
After a severe hailstorm, there was notable damage to the intricate roof, thought to resemble Ludowici Yale Memorial shingle tile, so the conversation began. With the help of Precision Construction and Roofing, a new copper liner was installed, and the entire roof was replaced. The colors blended perfectly, and this historic home has been restored to pristine condition, able to withstand many more storms and epochs.

PRODUCT: *Yale Memorial Tile* • **COLOR(s):** 40% Custom Color 102-16M/M11 Mist; 40% Custom Color 091-13M/049-16M Mist M>H; 15% Custom Color 25MT3/M23 L>M; 5% Custom Color 066-16M
ARCHITECT: *Jacques Benedict* • **INSTALLER:** *Precision Construction & Roofing*
PHOTOGRAPHY: *Teri Fotheringham* • Denver, CO



PRODUCT: Yale Memorial Tile
COLOR(s): 40% Custom Color 102-16M/M11 Mist;
40% Custom Color 091-13M/049-16M Mist M>H;
15% Custom Color 25MT3/M23 L>M;
5% Custom Color 066-16M
ARCHITECT: Jacques Benedict
INSTALLER: Precision Construction & Roofing
PHOTOGRAPHY: Teri Fotheringham
Denver, CO





PRODUCT: Yale Memorial Tile
 COLOR(s): 40% Custom Color 102-16M/M11 Mist;
 40% Custom Color 091-13M/049-16M Mist M>H;
 15% Custom Color 25MT3/M23 L>M; 5% Custom Color 066-16M



LSM INTERIOR DESIGN

Lanai 16" | Aged Cedar



DESIGNER: *LSM Interior Design*
 INSTALLER: *Burns & Scalo Roofing*
Pittsburgh, PA

TEXAS STABLES

ATHENS, TEXAS

PRODUCT: *Custom Tile Blend*

ARCHITECT: *Ryan Street and Associates*

PHOTOGRAPHY: *Alise O'Brien Photography*





PRODUCT: Custom Tile Blend
 ARCHITECT: Ryan Street and Associates
 PHOTOGRAPHY: Alise O'Brien Photography
 Athens, TX





LE DOMAINE DE PROVENCE

TRAVELERS REST,
SOUTH CAROLINA

*LUDOWICI'S 2019 RESIDENTIAL NEW
CONSTRUCTION PROJECT OF THE YEAR*

Family structures change over time, but this home was built with the promise of longevity.

With the intention of reflecting and cradling this implied evolution, this custom design-build home gives the impression of having been built over the course of many generations, evoking timeless elegance and stately presence. Embedded in its natural surroundings atop a grand mountain, the house is privy to panoramic views and breathtaking sunsets. Each detail contributes to the narrative that this home plans to exist long after the current residents have handed stewardship to their children, and the elevation all but promises it will endure the harshest storms Mother Nature can produce.

The home is filled with every modern amenity, but materials were selected to lend a vintage feel to it as well. Stone and roof details that vary in different locations suggest a continually evolving construction process. The architectural team sought to determine superior products that would stylistically complement the home's story while providing superior quality and building integrity.

PRODUCT(s): Brittany Shingle & Straight Barrel Mission 16" Tiles
COLOR(s): 60% Sunset Red; 40% Ebony Mist
ARCHITECT: Gabriel Builders
DESIGNER: LH Design Studio
PHOTOGRAPHY: Corey Messer
Travelers Rest, SC



With these considerations in mind, every material in the home was hand selected to stand the test of time. From day one, the roof was never under discussion for compromise. The Gabriel Builders team selected two different Ludowici products to help communicate the home's eclectic feeling. Straight Barrel Mission tile was chosen to create an "expected" look on the oldest part of the home, and a hand-warped flat Brittany Shingle tile on the formal parts of the home offer a more refined look that complements the limestone details. The home's architectural elements were enhanced with unique Ludowici product placement, using customized mortared end closures from the barrel tile to create an eave detail more fitting to the architectural style.

PRODUCT(s): *Brittany Shingle & Straight Barrel Mission 16" Tiles*
COLOR(s): *60% Sunset Red; 40% Ebony Mist*
ARCHITECT: *Gabriel Builders*
DESIGNER: *LH Design Studio*
PHOTOGRAPHY: *Corey Messer*
Travelers Rest, SC



CHATTANOOGA RESIDENCE

Colonial Shingle Tile | Ebony Mist



PRODUCT: Colonial Shingle Tile

COLOR: Ebony Mist

ARCHITECT: Harrison Design
Chattanooga, TN



PRODUCT: Colonial Shingle Tile
 COLOR: Ebony Mist
 ARCHITECT: Harrison Design
 Chattanooga, TN



ARCHITECT: *Summerour Architects*
INSTALLER: *Todd Zirk with Zirkon*
Asselin, Inc. Windows
Atlanta, GA



ATLANTA RESIDENCE

Cottage Shingle Tile | Custom Blend



PRODUCT: *Cottage Shingle Tile*
COLOR(s): *40% Custom Color SO/350-04M/M13 Spot M>H*
40% Weathered Aged Cedar
15% Weathered Sienna
5% Weathered Western Cedar
ARCHITECT: *Summerour Architects*
INSTALLER: *Todd Zirk with Zirkon*
Asselin, Inc. Windows
Atlanta, GA



PRODUCT: Cottage Shingle Tile
COLOR(s): 40% Custom Color SO/350-04M/M13 Spot M>H
 40% Weathered Aged Cedar
 15% Weathered Sienna
 5% Weathered Western Cedar
ARCHITECT: Summerour Architects
INSTALLER: Todd Zirk with Zirkon
 Asselin, Inc. Windows
 Atlanta, GA

LONG NECK POINT RESIDENCE

Colonial Shingle Tile | Ebony Mist



ARCHITECT: Douglas VanderHorn Architects
BUILDER: Significant Homes, LLC
LANDSCAPE: Wilber & King Landscape Design
Darien, CT

DENVER RESIDENCE

ENGLEWOOD, COLORADO

Built in 1931, this 10,380-square-foot Tudor Style home is in Cherry Hills Village, just south of Denver, Colorado. The roof on this beautiful home was damaged by a large hailstorm in 2018. Precision Construction and Roofing worked closely with the homeowner on restoring it to its original glory. Along with the roof, all the copper flashing and copper gutters were replaced. The project took six weeks, under complex conditions, to complete with unique product and color matching by Ludowici.

PRODUCT: Custom Shingle w/Hand Slush and Battered Butts
COLOR(s): Burgundy/Vintage Green Mist; Ebony; Ebony Mist
ARCHITECT: Fischer & Fischer
INSTALLER: Precision Construction & Roofing





PRODUCT: Custom Shingle w/Hand Slush and Battered Butts
COLOR(s): Burgundy/Vintage Green Mist; Ebony; Ebony Mist
ARCHITECT: Fischer & Fischer
INSTALLER: Precision Construction & Roofing



MARYLAND, UNITED STATES

Provincial Shingle Tile | Clay Red, Ebony Mist, and Santiago Rose





PRODUCT: Colonial Shingle Tile
COLOR(s): Custom Impressionist Blend
ARCHITECT: Norman Askins
BUILDER: Bonner Buchanan Custom Homes
INSTALLER: Todd Zirk with Zirkon
Atlanta, GA



ATLANTA RESIDENCE
Colonial Shingle Tile | Custom Blend



PRODUCT: Colonial Shingle Tile
COLOR(S): Custom Impressionist Blend
ARCHITECT: Norman Askins
BUILDER: Bonner Buchanan Custom Homes
INSTALLER: Todd Zirk with Zirkon
Atlanta, GA



PRODUCT: Colonial Shingle Tile
 COLOR(s): Custom Impressionist Blend
 ARCHITECT: Norman Askins
 BUILDER: Bonner Buchanan Custom Homes
 INSTALLER: Todd Zirk with Zirkon
 Atlanta, GA



RIVER FOREST
RESIDENCE
ATLANTA, GEORGIA

PRODUCT: *Languedocienne*
COLOR(S): 60% *Classico*; 25% *Cathedral*; 15% *Oldish*
ARCHITECT: *William T. Baker*
DESIGNER: *Land Plus Associates*
INSTALLER: *Todd Zirk with Zirkon*
Atlanta, GA



PRODUCT: *Languedocienne*
 COLOR(S): 60% *Classico*; 25% *Cathedral*; 15% *Oldish*
 ARCHITECT: *William T. Baker*
 DESIGNER: *Land Plus Associates*
 INSTALLER: *Todd Zirk with Zirkon*
Atlanta, GA



MARIETTA RESIDENCE

MARIETTA, GEORGIA

PRODUCT: *Cotswold Shingle Tile*
COLOR(s): *Custom Color 22MT1*
ARCHITECT: *Hamilton-Rogers Design*
INSTALLER: *Todd Zirk with Zirkon*
Marietta, GA



PRODUCT: *Cotswold Shingle Tile*
COLOR(s): *Custom Color 22MT1*
ARCHITECT: *Hamilton-Rogers Design*
INSTALLER: *Todd Zirk with Zirkon*
Marietta, GA





PRIVATE BOAT HOUSE

Cotswold Shingle Tile | Sunset Red with Ebony Mist | Clarksville, GA



PRIVATE RESIDENCE

Antique Shingle Tile | Ebony Mist

FIREPLACE DESIGN

PHILADELPHIA, PA

Over 600 Ludowici tiles were cut into fours and laid up with the original fired edge facing out for each fireplace in this beautiful Cotswold-inspired residence.

PRODUCT: Custom Cut Firebox Tile
ARCHITECT: John Milner Architects
BUILDER: Pinemar
PHOTOGRAPHY: Durston Saylor Photography

NOTE: Ludowici does not recommend using our terra cotta roof tile in a working fire box surround. We suggest the use of specialty clay products specifically designed for use in these types of working applications.





PRODUCT: Custom Cut Firebox Tile
 ARCHITECT: John Milner Architects
 BUILDER: Pinemar
 PHOTOGRAPHY: Durston Saylor Photography





FAÇADE DESIGN

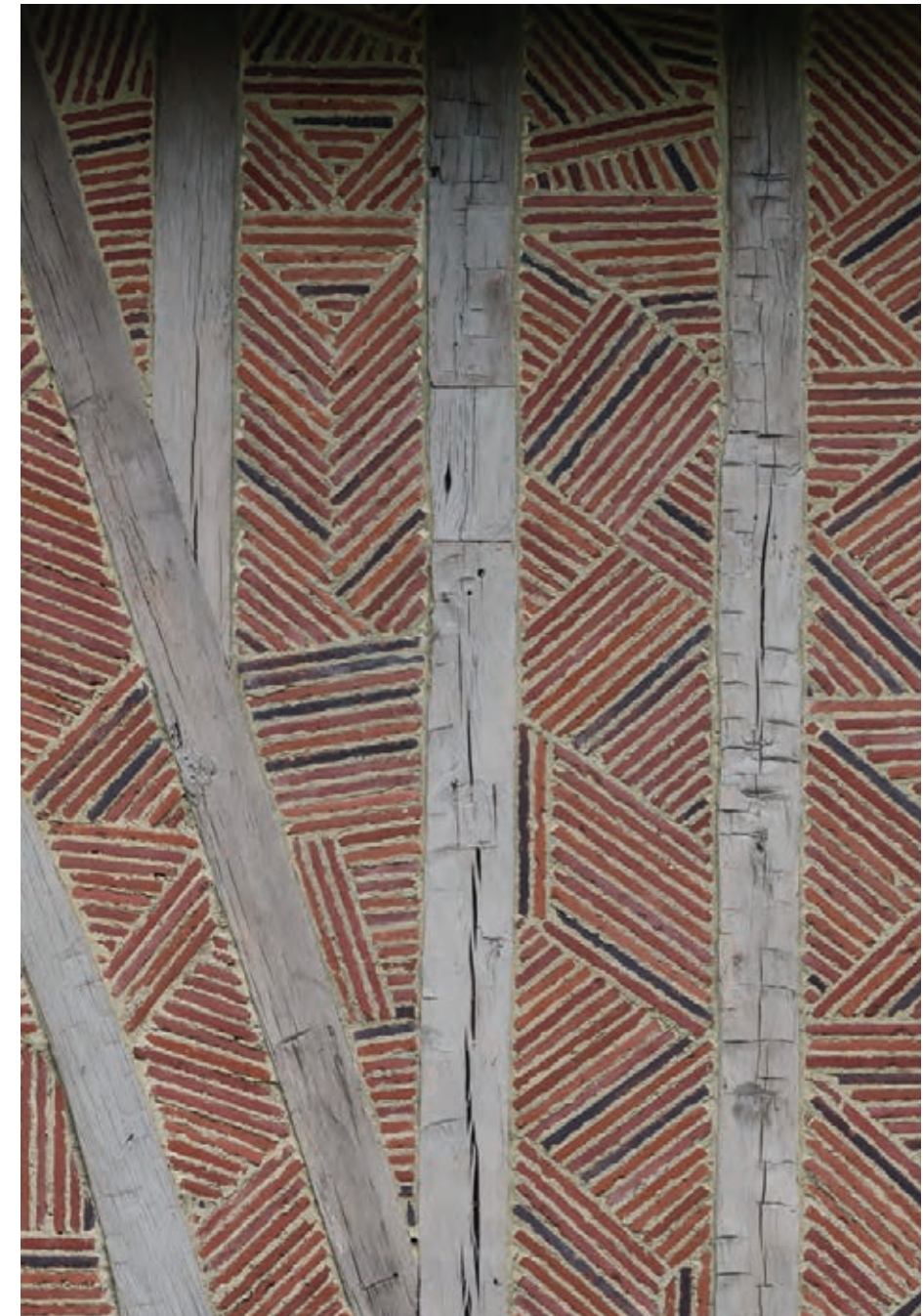
GREENWICH,
CONNECTICUT

This French Normandy-inspired new-construction residence features an abundance of Ludowici tiles placed intentionally in a random pattern to create the decoration of the façade. The depth of and variation in color is as strategic as it is beautiful.

PRODUCT: Custom Cut Façade Tile
ARCHITECT: Charles Hilton Architects
PHOTOGRAPHY: Robert Benson Photography



PRODUCT: Custom Cut Façade Tile
 ARCHITECT: Charles Hilton Architects
 PHOTOGRAPHY: Nicholas Rotondi Photography
 Greenwich, CT





*Frank Lloyd Wright's Westcott House
Springfield, OH*

FRANK LLOYD WRIGHT

SPRINGFIELD, OHIO

An icon of American architecture, Frank Lloyd Wright was no stranger to using Ludowici tile. Specified on many of his homes and buildings, Wright's unique and creative use of exceptional materials led him to choose terra cotta as a long-lasting, durable solution again and again for his roofing and flooring choices, showing terra cotta's versatility in fitting in with modern design.





EDUCATIONAL

THE BREAKING STRENGTH of terra cotta roof tiles is a critical measure of how long you can expect your roof to last and helps determine its walkability. A tile that breaks easily is dangerous—pieces can fall during a storm and create exposure to water leakage, leaving building owners unaware of the irreversible damage. Through superior raw materials, profile engineering, and our manufacturing process, Ludowici tiles are made to withstand more stress than any other clay tile products on the market. Our production process allows tiles to form into a dense, vitrified material with the highest strengths available—essential for peak performance and outstanding walkability.



VANDERBILT UNIVERSITY

NASHVILLE, TENNESSEE

*LUDOWICI'S 2020 COMMERCIAL NEW CONSTRUCTION
PROJECT OF THE YEAR WINNER*

*PRODUCT: LudoSlate Interlocking Tile
COLOR: Montpelier Green & Slate Gray Blend
ARCHITECT: Hastings Architecture
INSTALLER: RSS Nashville
PHOTOGRAPHY: Weston Richey Photography
Nashville, TN*



PRODUCT: LudoSlate Interlocking Tile
COLOR: Montpelier Green & Slate Gray Blend
ARCHITECT: Hastings Architecture
INSTALLER: RSS Nashville
PHOTOGRAPHY: Weston Richey Photography
 Nashville, TN





PRODUCT: LudoSlate Interlocking Tile
COLOR: Montpelier Green & Slate Gray Blend
ARCHITECT: Hastings Architecture
INSTALLER: RSS Nashville
PHOTOGRAPHY: Weston Richey Photography
 Nashville, TN



ASHEVILLE HIGH SCHOOL

Provincial Shingle Tile | Custom Blend

PRODUCT: Provincial Shingle Tile
COLOR(s): Custom 4 Color Blend
ARCHITECT: PFA Architects
INSTALLER: Baker Roofing
PHOTOGRAPHY: Tzu Chen Photography
Asheville, NC

LUDOWICI'S 2018 PROJECT OF THE YEAR WINNER

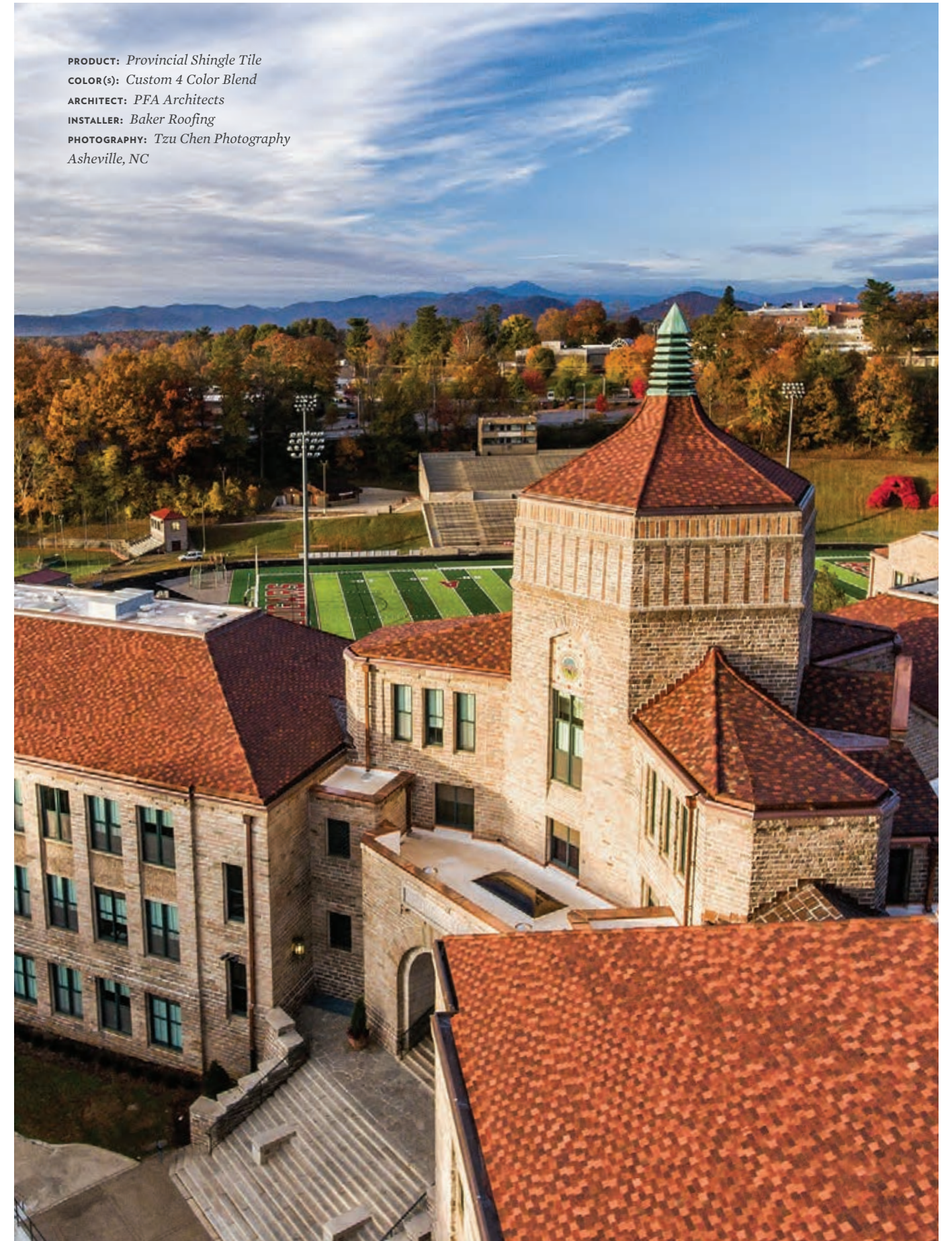
For nearly a century, Asheville High School's historic main building has stood as a stoic monument to public education in the North Carolina city known as the "Paris of the South." This National Register building, which opened in 1929 and features an arched entranceway with a soaring central rotunda, was designed by architect Douglas Ellington, whose other trademark Beaux-Arts and Art Deco structures include the City Hall and the Biltmore Hospital, defining the skyline of the southern city in the Blue Ridge Mountains.

Aside from minor repairs and patches, the local-granite veneer exterior façade and tiled roofs of the main building, whose three wings radiate like the blades of an airplane propeller, remained virtually unchanged

for more than eight decades. Approaching a time of required maintenance and upgrades, a team of experts was assembled to tackle the project. Within the design phase, members of the team approached Ludowici, being the original tile manufacturer that also had supplied tiles for other iconic Asheville buildings, including All Souls Church, Grove Park Inn, First Baptist Church, and City Hall. Ludowici was tasked with designing a roof to authentically mimic history while using modern processes to make the tiles look old, but not too old.

Selecting a historically appropriate style for the 50,000-square-foot roof was challenging. Different colors and styles were laid out on the roof, then several 6-foot-by-6-foot mock-ups were made and attached to view from the

PRODUCT: *Provincial Shingle Tile*
COLOR(s): *Custom 4 Color Blend*
ARCHITECT: *PFA Architects*
INSTALLER: *Baker Roofing*
PHOTOGRAPHY: *Tzu Chen Photography*
Asheville, NC





street and from a distance to see what the public sees. Once a choice was made, there would be no turning back, and Ludowici was determined to get it right. With alternative standard products from a different product family, Ludowici's Provincial shingle tile, a 7-inch by 5-inch terra cotta tile that fit within the project's budget was chosen.

After the team sent photos and tile samples, a color scheme was selected in reds, oranges, and browns. Each of these distinct selections needed the range within that color to be blended perfectly onsite. Ludowici had to make sure the right percentage amounts of each color made them look more historically

accurate. To get the best match, an unconventional choice to glaze the red and orange tiles with an ebony mist was the perfect approach. The tiles were formed with an extrusion process, cut, and sandblasted to appear a part of the aging process, then hand-sprayed with a colored glaze. Baker Roofing, with whom Ludowici has worked on many restoration projects, created the perfect color blend for the tile layouts.

The restoration of the main building is seen as a tribute not only to Ellington but also to all the high school alumni who call Asheville home. The restoration was named Ludowici's 2018 Project of the Year.

PRODUCT: *Provincial Shingle Tile*
COLOR(s): *Custom 4 Color Blend*
ARCHITECT: *PFA Architects*
INSTALLER: *Baker Roofing*
PHOTOGRAPHY: *Tzu Chen Photography*
Asheville, NC



BOSTON COLLEGE

NEWTON, MASSACHUSETTS

STOKES HALL

PRODUCT: *Classic 14" Interlocking Tile*

COLOR: *Custom Green Color Blend*

M16/M9 SM Mist; 179-11M SM; 037-11M SM; 350-04M SM; S0/M20/M23 WEA MD-HV Mist

ARCHITECT: *Tsoi/Kobus & Associates*

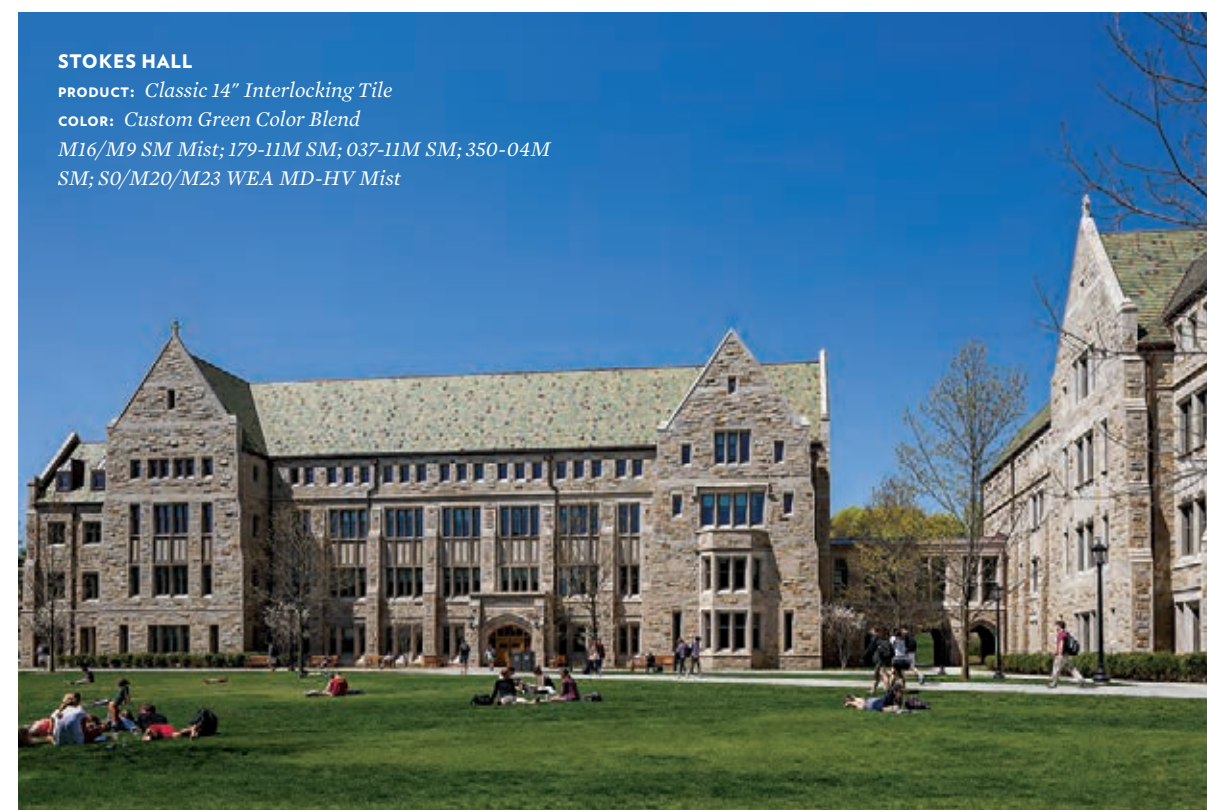
INSTALLER: *Marshall Roofing*

PHOTOGRAPHER: *Robert Benson Photography*



STOKES HALL

ARCHITECT: *Tsoi/Kobus & Associates*
 INSTALLER: *Marshall Roofing*
 PHOTOGRAPHER: *Robert Benson Photography*
Newton, Massachusetts



STOKES HALL

PRODUCT: *Classic 14" Interlocking Tile*
 COLOR: *Custom Green Color Blend*
M16/M9 SM Mist; 179-11M SM; 037-11M SM; 350-04M
SM; S0/M20/M23 WEA MD-HV Mist

YALE UNIVERSITY
NEW HAVEN, CONNECTICUT

PRODUCT: Custom Yale Memorial Tile
COLOR: Custom Yale Color Blend





DUKE UNIVERSITY
DURHAM, NORTH CAROLINA

PRODUCT: Custom Duke Tile
COLOR: Custom Duke Color Blend
INSTALLER: Baker Roofing
Durham, North Carolina



DUKE UNIVERSITY STUDENT WELLNESS CENTER
PRODUCT: *Piterak XS Wall Cladding; Autan XL Sunscreens*
COLOR(s): *Piterak XS in 12 Light Grey and 13 Storm Grey;*
Autan XL in 13 Storm Grey
ARCHITECT: *Duda|Paine Architects*
INSTALLER: *Juba Aluminum*
PHOTOGRAPHY: *Robert Benson Photography*



PRODUCT: *Brittany Shingle Tile*
COLOR(s): *Sunset Red w/ Ebony Mist; Dark Green; Plumstone; Santiago Rose*
ARCHITECT: *Bernard R. Maybeck & Henry Gutterson (1924 – 1940)*
INSTALLER: *Old World Roofing, Co. Elsau, IL*

PRINCIPIA COLLEGE

Brittany Shingle Tile | Custom Blend

THE SYLVESTER HOUSE AT PRINCIPIA COLLEGE
WAS NAMED LUDOWICI'S 2019 PROJECT OF THE YEAR
FOR COMMERCIAL RENOVATION.

Principia College is built upon spectacular limestone bluffs overlooking the Mississippi River in Elsau, Illinois. The campus is laid out to follow the rolling terrain of a communal English village. Along with a dozen other structures on the campus, the Sylvester House was originally designed by architect Bernard R. Maybeck and was built between 1931 and 1932. The Maybeck plan was adapted to its present location by Henry Gutterson in 1946. The varied gables and overall configuration of the buildings are still reminiscent of charming village cottages.

The Sylvester House, which currently serves as a large residence hall for women, found itself in need of a new roof. Ludowici delivered what Principia was looking for: a high-performance, high-quality, Grade 1 roofing material similar to the original profile and colors of Maybeck's design. The most challenging part of the project was replicating a color pattern to match the architect's vision of a custom four-color blend. Being able to maintain an even blend across transitions throughout various roof conditions, gables, dormers, and heights added to the challenge. Once matched, Ludowici Crown Roofer and long-time partner Old World Roofing, Co. meticulously blended the specified color transitions designed in a gradient fashion: darker at the eaves and lighter at the ridge. In the end, the result was a breathtaking tribute to Maybeck and his legacy at Principia College.

PRODUCT: *Brittany Shingle Tile*
COLOR(s): *Sunset Red w/ Ebony Mist; Dark Green;*
Plumstone; Santiago Rose

ARCHITECT: *Bernard R. Maybeck & Henry Gutterson (1924 – 1940)*

INSTALLER: *Old World Roofing, Co.*
Elsah, IL





PRODUCT: *Brittany Shingle Tile*
COLOR(s): *Sunset Red w/ Ebony Mist; Dark Green; Plumstone; Santiago Rose*
ARCHITECT: *Bernard R. Maybeck & Henry Gutterson (1924 – 1940)*
INSTALLER: *Old World Roofing, Co. Elsau, IL*





HOTEL MARSHALL AT EAST TEXAS BAPTIST UNIVERSITY

MARSHALL, TEXAS

*LUDOWICI'S 2019 OVERALL HISTORIC
RENOVATION PROJECT OF THE YEAR WINNER*

The Hotel Marshall was designed in the Italian Renaissance style with Art Deco elements by noted Fort Worth architect Wyatt C. Hedrick. Completed in 1929, it served as the principal hotel for the social and civic activity of the city of Marshall, and for most of East Texas as a common meeting place for East Texas oilmen. With the advent of chain motels and a change in traffic patterns from the construction of Interstate 20, the building sat vacant from the 1960s to 2003, when it was acquired by Jerry and Judy Cargill of Texas.

PRODUCT: *Spanish 13"*
COLOR: *Custom "ETBU Victory Blue"*
ARCHITECT: *Wyatt C. Hedrick (1926)*
INSTALLER: *Jeff Eubank Roofing Co.
Marshall, TX*

In 2006, Judge Richard and Christina Anderson partnered with the Cargill interest to start the renovation of the entire exterior and the first two interior floors of the building. In 2013, the Andersons and Cargills donated the property to East Texas Baptist University, where then-President Blair Blackburn undertook the restoration of several additional interior floors designed to accommodate the university's expanding nursing program. The local community takes great pride in the project.

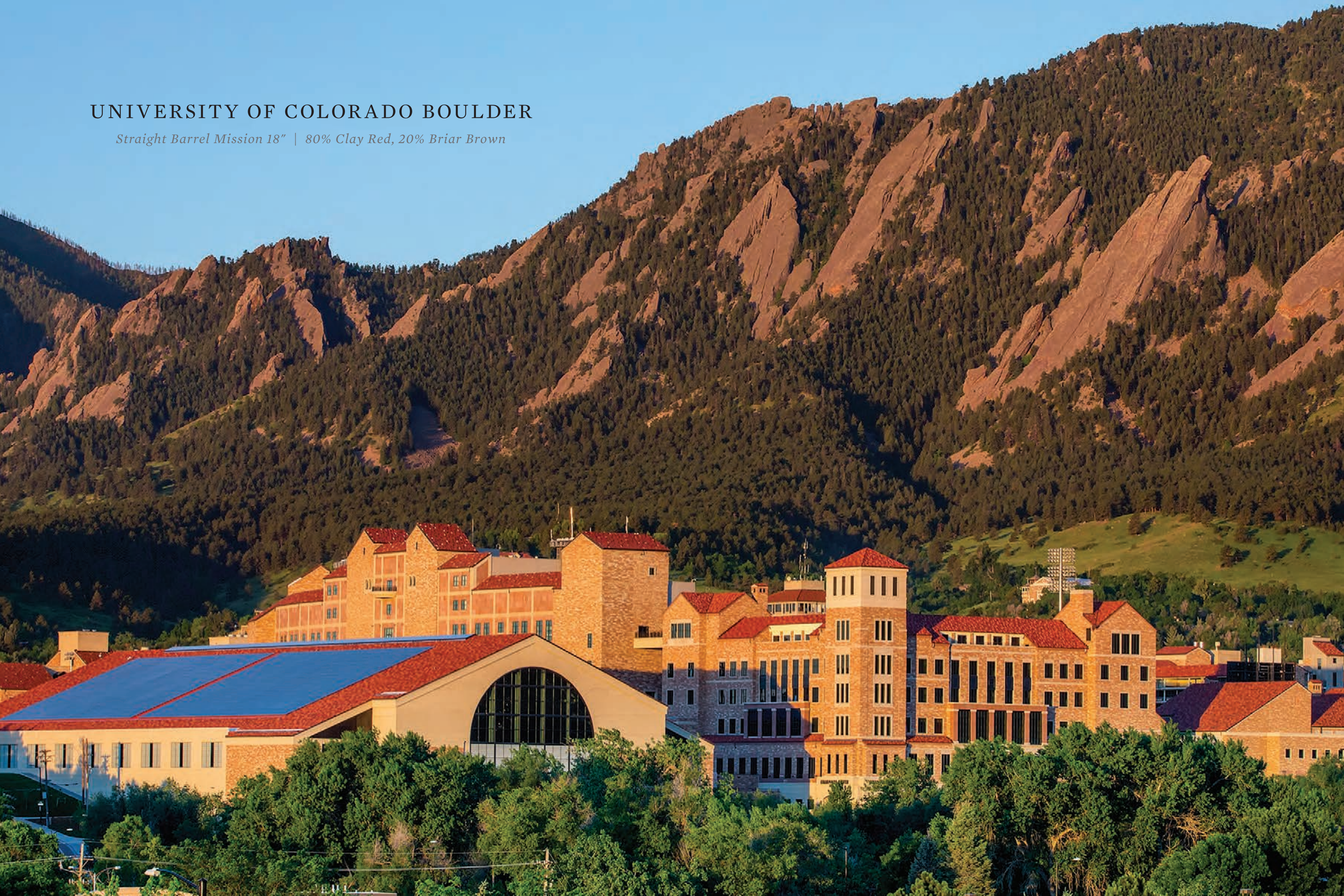
The original roof on the hotel was a Ludowici interlocking tile that remained in place until 2013, when the previous owners began building renovations, which included a re-roofing project. In an attempt to cut costs, a lesser-quality roofing product was substituted, resulting in the disappointment of only a seven-year lifespan. At this point, Ludowici was incorporated back into the design to guarantee the same life expectancy of 87 years that was predicted for the structure. All challenges were met, and Hotel Marshall was awarded Ludowici's 2019 Overall Historic Renovation Project of the Year.

PRODUCT: *Spanish 13"*
COLOR: *Custom "ETBU Victory Blue"*
ARCHITECT: *Wyatt C. Hedrick (1926)*
INSTALLER: *Jeff Eubank Roofing Co.*
Marshall, TX



UNIVERSITY OF COLORADO BOULDER

Straight Barrel Mission 18" | 80% Clay Red, 20% Briar Brown





PRODUCT: Straight Barrel Mission 18"
 COLOR(s): 80% Clay Red; 20% Briar Brown
 Boulder, CO

THE OHIO STATE UNIVERSITY

COLUMBUS, OHIO

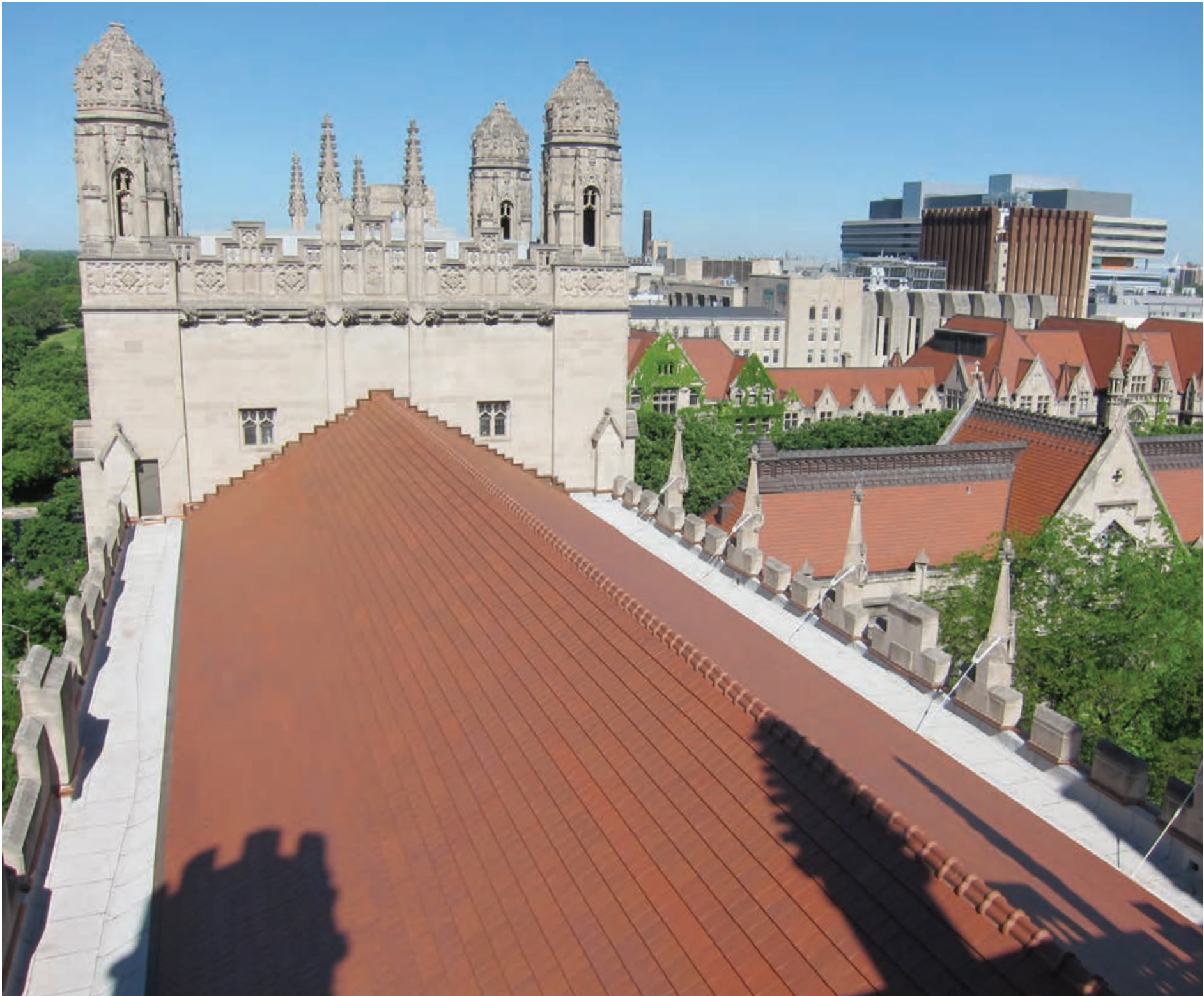
ORTON HALL

PRODUCT: *Historic National French*

COLOR: *Historic Clay Red*

ARCHITECT: *Yost and Packard Architects (1893)*





HARPER LIBRARY
PRODUCT: *Classic 14" Interlocking*
COLOR: *Clay Red*
INSTALLER: *Bennett & Brosseau Roofing*
Chicago, IL

UNIVERSITY OF CHICAGO

CHICAGO, ILLINOIS

The University of Chicago, founded in 1890, has evolved from a compact quadrangle on the Midway Plaisance into an expanded community of 28,000 people who study, work, and live on a campus that covers 217 acres of land. Populating the campus are over 170 buildings in various styles, designed by several prominent architects of their day, including original architects Henry Ives Cobb, Holabird & Roche, Eero Saarinen, Edward Durell Stone, Cesar Pelli & Associates, Skidmore, Owings & Merrill, Rafael Viñoly, and Frank Lloyd Wright.

With preservation in mind, the university created a master plan for extensive building reconstruction and maintenance over time, including roof renovations on existing structures. Beginning the process, an independent building consultant specializing in design review and the senior manager of building envelope and campus trade shops quickly discovered that the original campus roof tile was manufactured by Ludowici.

Next, the University of Chicago assessed the buildings needing repair or replace-

ment. Ludowici was brought in to find an appropriate tile profile and color to standardize the aesthetic of the campus' historic buildings while maintaining the integrity of the original design.

The Ludowici team worked with the university's in-house architects to pull each building's historic tile samples and have them shipped to the Ludowici factory for identification and color analysis.

Most of the university's tiles were flat, shingle, or interlocking and shared various examples of potential replacement options. Multiple roof tile mock-ups were placed along the natural sight line with each roof's pitch to test the visual appearance and performance against Chicago's inclement weather. Ludowici's durable, Grade 1-rated tile with less than one percent water absorption proved resistant to Chicago's harsh and changing climate. The university ultimately chose Ludowici's Classic 14 interlocking tile in clay red. This all-natural color serves as the perfect complement to the many building styles on campus and is built to hold up against the cold Chicago winters for seasons to come.



HASKELL HALL
 INSTALLER: *Jones & Cleary Roofing*



HASKELL HALL
 INSTALLER: *Jones & Cleary Roofing*



KENT HALL
 INSTALLER: *Knickerbocker Roofing & Paving Co.*



PRODUCT: *Classic 14" Interlocking*
COLOR: *Clay Red*
INSTALLER(S): *Knickerbocker Roofing & Paving Co., Inc.; Jones & Cleary Roofing; Bennett & Brosseau Roofing Chicago, IL*



UNIVERSITY OF SOUTHERN CALIFORNIA
GLORYA KAUFMAN SCHOOL OF DANCE
LOS ANGELES, CALIFORNIA



PRODUCT: *Classic 16" Interlocking*
COLOR: *Sunset Red*
ARCHITECT: *Pfieffer Partner Architects*
INSTALLER: *Letner Roofing*
PHOTOGRAPHY: *Ema Peter Photography; Steve Lerum Photography*

TEXAS CHRISTIAN UNIVERSITY

FORT WORTH, TEXAS



PRODUCT: Williamsburg 16"
COLOR(s): Summer Rose; Summer Rose
w/ Brown Mist; Clay Red Blend
PHOTOGRAPHY: Weston Richey Photography



LOUISIANA STATE UNIVERSITY
BATON ROUGE, LOUISIANA



PRODUCT: *Spanish 13"*
COLOR: *Custom LSU Color Blend*
PHOTOGRAPHY: *Weston Richey Photography*

UNIVERSITY OF TEXAS

AUSTIN, TEXAS

PRODUCT: *Straight Barrel Mission 16"*
COLOR: *Custom Color Blends*
PHOTOGRAPHY: *Weston Richey Photography*





HARVARD UNIVERSITY | *Cambridge, Massachusetts*



WILLIAM & MARY | *Williamsburg, Virginia*



WALDORF SCHOOL OF PHILADELPHIA | *Philadelphia, Pennsylvania*



JAMES MADISON UNIVERSITY | *Harrisonburg, Virginia*



EMORY UNIVERSITY | *Atlanta, Georgia*



UNIVERSITY OF SOUTHERN MISSISSIPPI | *Hattiesburg, Mississippi*



UNIVERSITY OF TENNESSEE | *Knoxville, Tennessee*



FLAGLER COLLEGE | *St. Augustine, Florida*



OKLAHOMA STATE UNIVERSITY | *Stillwater, Oklahoma*



OREGON STATE UNIVERSITY | *Corvallis, Oregon*



PURDUE UNIVERSITY | *West Lafayette, Indiana*



NEW MEXICO STATE UNIVERSITY | *Las Cruces, New Mexico*



COMMERCIAL

LUDOWICI TILES have the highest wind uplift capacity and weather performance of any clay tile on the market. The clay composition of our tiles creates an ultimate breaking strength able to resist high wind stresses experienced during extreme weather events, such as tornadoes and hurricanes. When properly installed, high quality terra cotta tiles can sustain winds in excess of 125 miles per hour—the kind that would easily strip off many other roofing materials. Comparing other catastrophic events, one of the great benefits of terra cotta tile is its inability to burn and resist fire. Many non-fire-resistant roofing products require expensive treatments to meet fire codes. With Ludowici tile, extra steps and added costs are eliminated and replaced by peace of mind. All Ludowici products are Class-A fire-rated without special treatment when used in the proper assembly.

PRODUCT: *Morando Closed Shingle*
COLOR(S): *Historic 3 Green Blend*
ARCHITECT: *Charles Barton Keen*
PHOTOGRAPHY: *Courtesy of Reynolda*



REYNOLDA HOUSE MUSEUM

WINSTON-SALEM, NORTH CAROLINA

Settled on the outskirts of Wake Forest University, Reynolda House Museum of American Art can arguably be classified as the centerpiece of Winston-Salem, North Carolina culture. Now on the National Register of Historic Places, Reynolda House remains the largest bungalow in the world. The 64-room historic house stands as one of the few well-preserved, surviving examples of the American Country House movement.

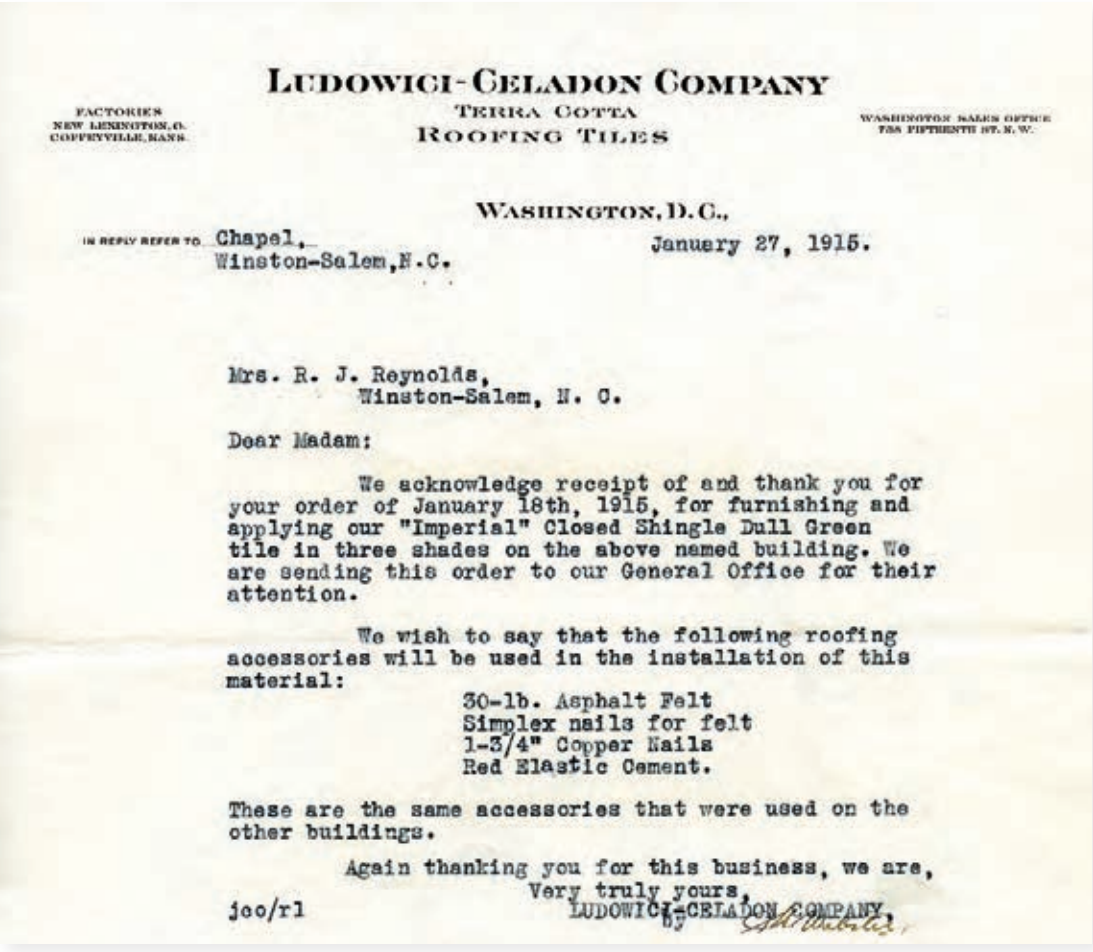
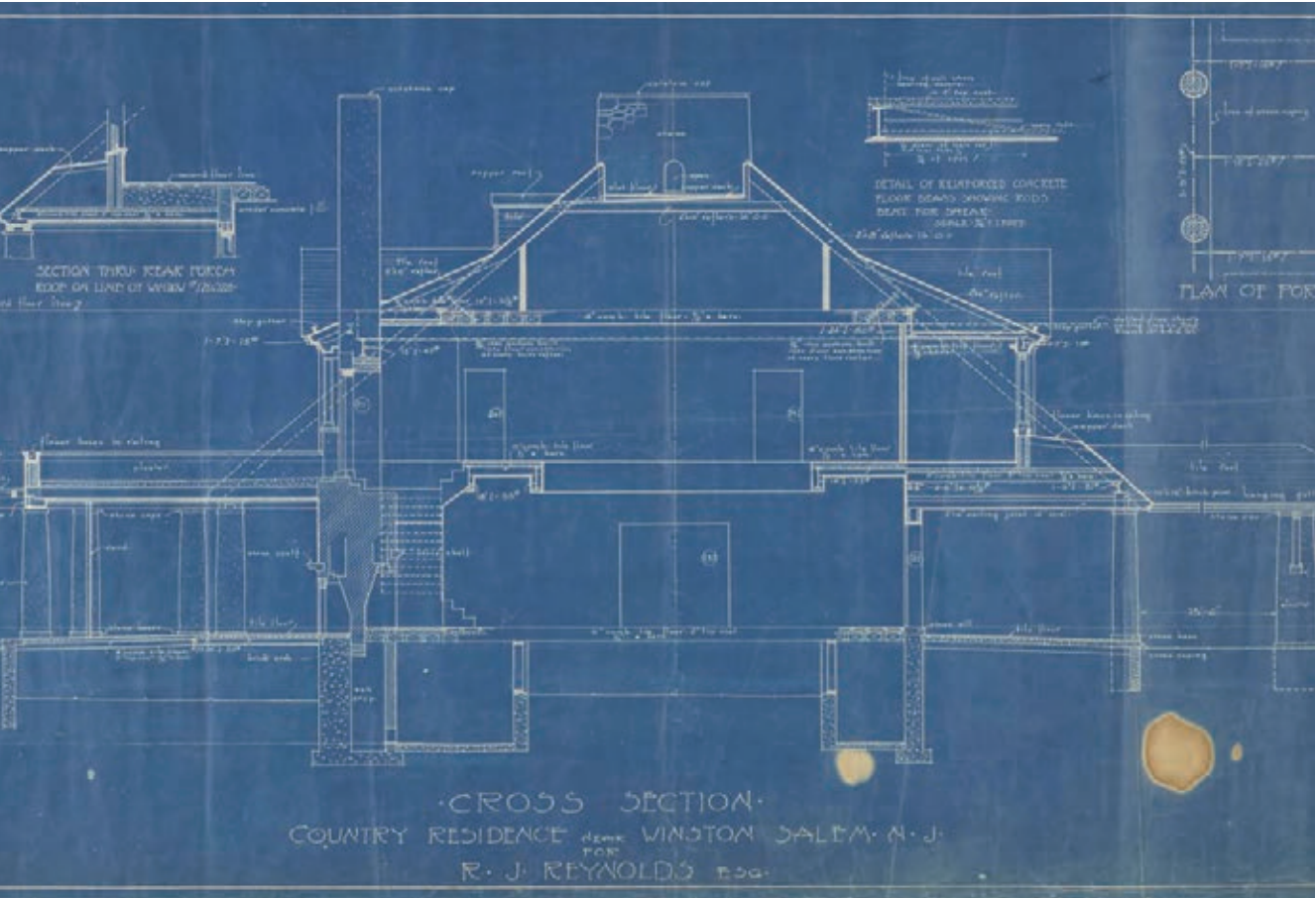
Originally built in 1917 as the home of Katharine and R.J. Reynolds, founder of the R.J. Reynolds Tobacco Company, the more than 34,000-square-foot home is the centerpiece of a 1,067-acre estate and model farm, including 40 support buildings designed by Philadelphia architect Charles Barton Keen. Reynolda House became a museum of public art in 1967 and has exhibited art from around the world, with the museum alone seeing about 40,000 visitors each year.

Charles Barton Keen's architecture conveyed a blend of Arts and Crafts style and Colonial Revival. Keen, already known for attractive country estates on Philadelphia's Main Line, specialized in homes that were luxurious without being pretentious, a style he car-

ried over to the Reynolda project. Its low proportions with white stucco walls and a light green tile roof offer a welcoming façade. Recessed sleeping porches conceal an interior displaying some the finest craftsmanship available at the time. Katharine Smith Reynolds proved to be vigilant in the design process. Involved in every decision, Katharine incorporated construction management into her everyday life, knowing the details of each building, the materials used, and their costs. She devoted much of her time ensuring that the work lived up to her standards.

The house was constructed with reinforced concrete and hollow clay tiles, materials favored for their resistance to fire, leading to the promotion of terra cotta tiles as the ideal roofing material. Manufactured by Ludowici in 1917, the original tile still sat

atop Reynolda’s roof until a renovation began a little over 100 years later. Keen used Ludowici Imperial tile in three shades of green: light, medium, and dark. From a distance, the shades blend into a muted green tone resembling the patina of aged copper. The complete roof system is made of a dozen different tile shapes, which lock together to fit the contours of the bungalow. Tile profiles include ridge, ridge terminals, hip, hip starters, hip terminals, hip rolls, hip roll starters, gable rakes, under eaves, and end bands. This specific green roof tile was used on the family’s bungalow as well as many of the village buildings that tied the sprawling estate together, creating a uniformity throughout the property. Reynolda’s green clay tile roof, a signature feature, proceeded to influence much of the architecture around Winston-Salem.



ABOVE A photograph of the original clay roof tiles and hip pieces. LEFT A January 27, 1915 missive from Ludowici to Katharine Reynolds describing the roof work for Reynolda’s chapel. OPPOSITE Original Blue-print, “Cross Section Thru Main Bldg. Country Residence near Winston-Salem, N.C. for R. J. Reynolds”, July 15, 1912.



PRODUCT: *Morando Closed Shingle*
COLOR(s): *Historic 3 Green Blend*
ARCHITECT: *Charles Barton Keen*
PHOTOGRAPHY: *Courtesy of Reynolda*

When the Reynolda House hit its centennial in 2017, the museum staff and historians began looking into the integrity of its roof condition and how well it had stood the test of time. All in all, the tiles weigh about the same as 13 full-grown elephants, or 42 midsize cars—replacing them would present quite the task. Ample funds were needed to replace the 77.3 tons of mint-green tiles and accompanying roofing materials that had been on the roof since World War I. Also under consideration was the number of phases needed to complete the project with the least amount of disturbance. Reynolda made the decision to campaign for restoring their historic roof.



LEFT The Barn at Reynolda Village is one of the many buildings modeled after an English Village including dairy barns, a cattle shed, school, post office, smoke-house, blacksmith shop, carriage house, central power and heating plant and cottages. Today the building serves as a unique event venue within the district that serves many educational, cultural, and community purposes.

BELOW “Raising the Roof” Exhibition on display at Reynolda.

history, construction, and rehabilitation, and aerial videography provided a bird’s-eye view of the project. The Reynolda restoration project had been four years in the making, including a capital campaign to raise funds and obtaining a generous grant from the National Endowment for the Arts. Donors received a piece of Reynolda’s history, a five-pound, green Ludowici roof tile which had adorned this historic house for 104 years.

They decided the best path forward to preserve the authenticity of the house was to use the original tile manufacturer, Ludowici, to replace the 30,000 shingles and maintain the same color and character. By 2021, Ludowici had manufactured the roughly 150,000 pounds of tiles needed. Getting the color right on the new roof was a collaborative effort led by Ludowici’s senior color specialist. Custom-blended green with blue color misting approximates the original historic colors. This effect was enhanced by the way the tiles were assembled. A small crew employed by Baker Roofing moved strategically across the building with seamless color blending, allowing the museum to remain open and programs to continue.

The Reynolda team was very organized in their approach to decision-making. Together, they approved the mock-ups Ludowici provided. Good communication and collaboration made this selection process go smoothly. The entire community at Reynolda, the city of Winston-Salem, and Wake Forest University were invested in doing this project right since Reynolda is such an icon in the region.

An exhibition, Raise the Roof: Restoring Reynolda’s Historic Roof, was on display for the duration of the rehabilitation project, providing updates on the roof’s progress and detailing the scope of work. Photographs and manuscripts pulled from the Reynolda Archives offered an inside look at the roof’s



PRODUCT: *Morando Closed Shingle*
COLOR(s): *Historic 3 Green Blend*
ARCHITECT: *Charles Barton Keen*
PHOTOGRAPHY: *Courtesy of Reynolda*





THE DAYTON
ART INSTITUTE
DAYTON, OHIO

PRODUCT(s): NeXclad 14" and Roman Mission Tile
COLOR(s): Custom Blend
Dayton, OH



PRODUCT: Roman Mission Tile
 COLOR(S): Custom Blend
 Dayton, OH



EAST LAKE GOLF CLUB

ATLANTA, GEORGIA

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

Over the years, East Lake’s clubhouse and adjacent golf courses fell into disrepair. The year 1993 brought a hope for change, as the charitable East Lake Foundation purchased the establishment with the goal of restoring the property and surrounding community to its former glory. The restoration’s intent was to also pay tribute to Bobby Jones and the club’s other great golfers, both amateur and professional.

Using the original Shutze architectural drawings, the clubhouse was revitalized to its original splendor by 1994. Fast-forward to 2005, when the club became the permanent home to the TOUR Championship, and it became clear the clubhouse would need an expansion. With an addition proposed in 2007, historical accuracy was critical to the suc-





cess of the project. The addition of an adjacent structure meant the existing roof's dazzling color combination would need to blend seamlessly with the new-build next door.

During September of 2007, DPR Hardin Construction Company contacted Ludowici and JGA Southern Roof Center about the 20,000-square-foot addition to the historic East Lake clubhouse. The existing roof was manufactured by B. Mifflin Hood Tile Company, who went out of business in the 1950s. A longtime Ludowici competitor, B. Mifflin Hood had tile and brick plants throughout the Southeast that supplied roofs to many historic homes and buildings. However, as these buildings aged and incurred damage, replacement tiles were hard to come by. Fortunately for the team, Ludowici craftsmen have decades of experience referencing historic catalogs, drawings, and technical guides for replicating historic trim and color profiles from a number of historic manufacturers, including B. Mifflin Hood.

To make the addition a success, Ludowici was presented not only with matching the roof tile's unique size and surface textures, but also with duplicating the wide variety of historic colors, many of which were created by dangerous and long since abandoned firing techniques. Representatives from Ludowici, DPR Hardin, JGA,

Dixie Roof Decks, and KTM Roofing met on top of the existing roof deck to review small color chip samples and begin the color matching process. These standard color chips were used as a jumping-off point to create the first set of large-scale tile samples needed for comparison.

Over the next few months, Ludowici's ceramic engineer went to work developing a number of custom color glaze formulations, taking into consideration hue, color range, aging, roof pitch, daylight, and shade. At the same time, Ludowici's technical team worked to re-create the custom-size B. Mifflin Hood tile profile, surface texture, and accessory pieces. After the field tile was approved, attention turned to the decorative accessories, as the interlocking ridge tile on the existing clubhouse significantly defined the building's exterior lines.

All in all, Ludowici created a beautifully custom, historically accurate roof tile profile, complete with extra-heavy scoring. The custom color blend used 14 unique colors, created to mimic the aging prominently seen on the existing roof. Dixie Roof Decks and KTM Roofing carefully blended the 14 intricate colors replicating the random installation on the existing roof, resulting in a seamless blending of the historic to the new on the 20,000-square-foot addition.

PRODUCT: Custom Historic Shingle Tile
COLOR: Custom 14 Color Blend
ARCHITECT: Smallwood, Reynolds, Stewart, Stewart
INSTALLERS: DPR Hardin Construction Company;
Dixie Roof Decks; KTM Roofing

ARONIMINK GOLF CLUB



PRODUCT: Brittany Shingle Tile
COLOR(s): 60% Ebony Mist M>H;
20% Ebony Mist L>M;
15% Clay Red; 5% Olive Green (M1)
INSTALLER: Russell Roofing
Newton Square, PA



JUPITER HILLS COUNTRY CLUB
PRODUCT: LudoSlate Interlocking Tile
COLOR: 60% Montpelier Green; 40% Slate Gray
 Tequesta, FL



HOUSTON COUNTRY CLUB
PRODUCT: Americana 16" Interlocking Tile
COLOR(s): 60% Custom Color 817-95M/312-06M Mist;
 16% Custom Color 817-95M/312-06M Spot;
 12% Custom Color 817-95M/284-06M Mist;
 12% Custom Color 012-99M/198-05M Mist
 Houston, TX



THE LODGE AT SEA ISLAND GOLF CLUB

PRODUCT: French Interlocking Tile

COLOR: Aged Cedar
Sea Island, GA



FOUR SEASONS RESORT AND CLUB DALLAS

PRODUCT: Scandia

COLOR: Custom Color 141-11G/M16 Mist
Dallas, Texas





GROVE PARK INN
ASHEVILLE, NORTH CAROLINA

PRODUCT: Custom Flat Slab Shingle Tile
COLOR(s): Custom Blend of Matte Orange & Red Glazes
INSTALLER: Baker Roofing
Asheville, NC



PRODUCT: *Custom Flat Slab Shingle Tile*
COLOR(s): *Custom Blend of Matte Orange & Red Glazes*
INSTALLER: *Baker Roofing*
Asheville, NC



THE PLAZA HOTEL

PRODUCT: Classic 14" Interlocking Tile
COLOR: Brookville Green
 New York, NY



NEW YORK LIFE BUILDING

PRODUCT: Classic 14" Interlocking Tile
COLOR: Custom 24K Gold
 New York, NY



PRODUCT: French Interlocking Tile
COLOR: Historic Red
 Mt. Dora, FL



SYDONIE MANSION

MT. DORA, FLORIDA

Established in 1883, the Sydonie Mansion was once a 9,000-acre preserve designed after the Alhambra Castle in Spain, built to include sculpted gardens with rare plants from around the world, a citrus grove, and a dairy farm. Remodeled in 1903 by famous architect Grosvenor Atterbury, the mansion features 13 bedrooms, 11 bathrooms, and 13 fireplaces reflecting an era of superior craftsmanship in Mediterranean Revival and Asian styles. Nestled in Mt. Dora, Florida and with original Ludowici tile, the Sydonie Mansion has impressive historical significance. During World War II, the red roof stood as a reference point for the Army Air Corps flying out of Orlando. Now a unique wedding venue, not one tile has been lost to a hurricane since the original roof installation 115 years ago.

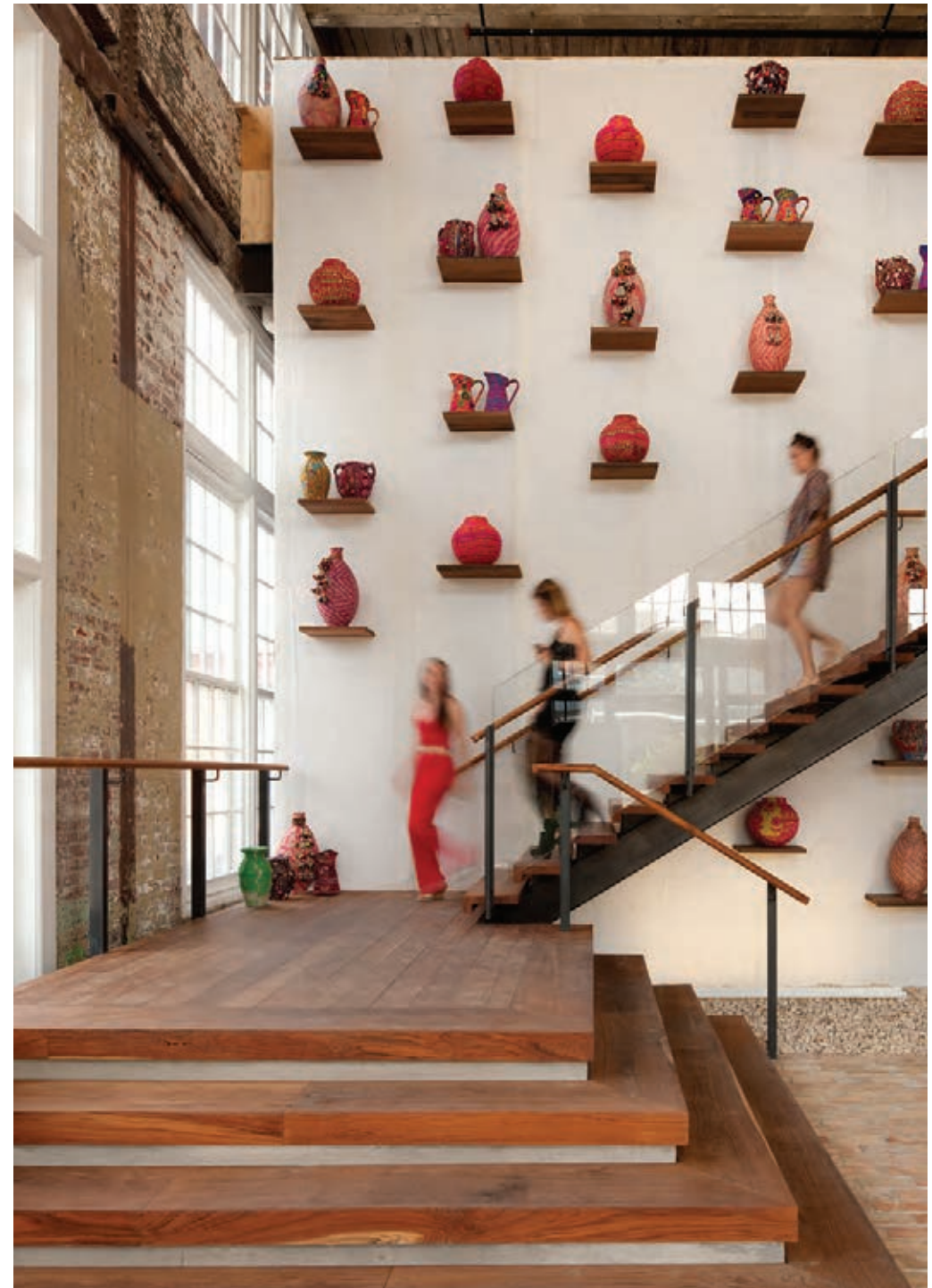
URBN HEADQUARTERS

PHILADELPHIA, PENNSYLVANIA

URBN, the parent company of familiar clothing brands like Urban Outfitters, Free People, and Anthropologie, has found its home in a former naval shipyard building in Philadelphia. With the goal of transforming this over 100-year-old space into a newly useful structure, Meyer Scherer & Rockcastle was hired to bring the vision to life, utilizing Ludowici interlocking tile in the process.

PRODUCT: *French Interlocking Tile*
COLOR: *Ebony Mist*
ARCHITECT: *Meyer Scherer & Rockcastle*
PHOTOGRAPHY: *Lara Swimmer Photography*





PRODUCT: French Interlocking Tile
COLOR: Ebony Mist
ARCHITECT: Meyer Scherer & Rockcastle
PHOTOGRAPHY: Lara Swimmer Photography



THE BROADMOOR

COLORADO SPRINGS, COLORADO

PRODUCT: *French Interlocking Tile*
COLOR(s): *80% Ebony Mist; 20% Clay Red*
INSTALLER: *Peak View Roofing*
PHOTOGRAPHY: *Kevin Syms*



MADEIRA
CONDOMINIUM
MARCO ISLAND, FLORIDA

PRODUCT: *Spanish 18"*
COLOR: *Dark Terra Cotta Impressionist*
ROOFING CONSULTANT: *G. Batista & Associates*
INSTALLER: *Best Roofing Services, LLC*
PHOTOGRAPHER: *Weston Richey Photography*

CONDOS I



PRODUCT: *Spanish 18"*
COLOR: *Custom Color Blend*

CONDOS II



MARSEILLES CONDOS
PRODUCT: *Spanish 13"*
COLOR: *Field Green Impressionist*
Pensacola, Florida



MONTALUCE WINERY

DAHLONEGA, GEORGIA

PRODUCT: *Languedocienne*
 COLOR: *Classico*
 ARCHITECT: *Harrison Design*

CORNELIA TRAIN DEPOT



PRODUCT: French Interlocking Tile
COLOR: Clay Red
Cornelia, GA

PRODUCT: *Straight Barrel Mission 18"*
COLOR: *Santiago Rose*

HIGHLAND PARK VILLAGE

DALLAS, TEXAS





WALT DISNEY WORLD RESORT | *Bay Lake, Florida*



WRIGLEY FIELD | *Chicago, Illinois*



CHRISTOPHE HARBOUR MARINA GATE HOUSE | *Saint Kitts*



THE SUMMIT | *Birmingham, Alabama*



TOWER LIFE BUILDING

PRODUCT: *Historic English Tile*
 COLOR: *Custom Gloss Green 079-09G SM*
 INSTALLER: *American Roofing & Metal*
San Antonio, TX



BELLEVIEW PLACE CONDOS

PRODUCT: *Classic 14" Interlocking Tile*
 COLOR: *Vintage Green*
 ARCHITECT: *JMC Design and Development*
 INSTALLER: *Quality Roofing Of Florida*
Tampa, FL

GOVERNMENT

AT LUDOWICI, we hold ourselves to the highest standards, and want those installing our products to do so too. That's why we created the Ludowici Crown Roofer and Elite Crown Roofer programs. To qualify for the program, firms are fully vetted and trained to ensure their dedication to quality and craftsmanship meet our standards. Choose a Ludowici Crown Roofer or Elite Crown Roofer and know the job is done by a qualified, trained professional.

FORT BENNING OLD POST HEADQUARTERS & INFANTRY SCHOOL BUILDING | *Fort Benning, Georgia*

WILDWOOD CITY HALL

PRODUCT: *Lanai 16" Interlocking Tile*

COLOR: *Sunset Red w/ Ebony Mist L>M*
Wildwood, MO

CITY HALL



PENNSYLVANIA STATE
CAPITOL BUILDING
HARRISBURG, PENNSYLVANIA

PRODUCT: *Historic Custom 1-Piece Roman*
COLOR(s): *50% Custom Color 214-07G;
50% Custom Color 227-07G*
ARCHITECT: *Joseph Miller Huston (1902 – 1906)*



PRODUCT: Historic Custom 1-Piece Roman
COLOR(s): 50% Custom Color 214-07G;
 50% Custom Color 227-07G
ARCHITECT: Joseph Miller Huston (1902 – 1906)
 Harrisburg, PA





FEDERAL TRADE COMMISSION BUILDING

PRODUCT: *Greek*
COLOR: *Historic Red*
Washington, DC



FEDERAL TRIANGLE | DEPARTMENT OF JUSTICE BUILDING

PRODUCT: *Straight Barrel Mission 18"*
COLOR: *Custom Color Blend*
Washington, DC



LUADOWICI, GA / PANAMA CANAL

One of the more interesting and lesser-known stories about Ludowici Roof Tile centers on the South. In 1902, Ludowici purchased land in Johnston Station, Georgia, to expand the company's outreach and reduce freight costs for southern clients. The "Dixie" plant was built the following year and the regional economic impact of the factory was enormous and immediate. The Ludowici Dixie Plant covered more than 1,100 acres and employed most of the county. The tiny settlement of Johnston Station quickly became a boomtown. The new factory clubhouse served as the town's de facto community center and provided lodging for traveling executives, salesmen, and contractors. Tiles manufactured from this plant were stamped "Ludowici Dixie" and can still be found today throughout Georgia and Florida on prominent buildings like the U.S. Federal Building in Savannah and Flagler College in St. Augustine, Florida, as well as numerous homes in Ludowici and the surrounding communities. When the town erected a new

high school, the Ludowici family donated \$1,000 toward its construction costs and all the roof tiles. In recognition of their enormous contributions to the region, the town was renamed "Ludowici" and incorporated in 1905.

The Ludowici family also had their eyes on a larger project much farther south. When the building of the Panama Canal was taken over by the United States in 1904, Ludowici wanted to be the roofing provider for the US Army barracks and lock buildings. From Georgia, the plant was perfectly situated to produce and ship product quickly, so Ludowici made their pitch and won the Panama contract. During the factory's ten years in operation, it provided over 2 million square feet of roofing materials to the canal's government buildings. Although the Dixie plant has long since shuttered, the Panama Canal roof tiles remain to this day a testament to Ludowici's quality products and the family's entrepreneurial spirit.

MIRAFLORES LOCKS

PRODUCT: Spanish 13"

COLOR: Clay Red

Panama City, Panama



BEXAR COUNTY COURTHOUSE
PRODUCT: Spanish 13"
COLOR: Custom Historic Green Blend
 San Antonio, TX



WRIGHT-PATTERSON AIR FORCE BASE
PRODUCT: Provincial Shingle Tile
COLOR(s): Clay Red; Burgundy; Desert Sand;
 Custom Color M10/082-00M PF
 Wright-Patterson AFB, OH



FORT BENNING INFANTRY SCHOOL BUILDING

PRODUCT: *Straight Barrel Mission 18"*

COLOR: *Custom Color Blend*

Fort Benning, GA



RELIGIOUS

SHIPPING LUDOWICI terra cotta materials, whether in the US or globally, is made easy by our on-site logistics professionals. Ludowici's shipping department has the expertise to ensure our terra cotta products are adequately packaged and transported to their final destination. Whether you select to have Ludowici handle your order from start to finish, or arrange freight with a separate logistics company, our team is here to help. Additionally, Ludowici terra cotta products have affordable luxury options available in a wide range of price-points. When you compare the longevity of Ludowici lifecycle costs to replacing other roofing materials, we always come out on top. Depending on the size, weight, production method, and colors/textures applied, many profiles begin at the affordable price of \$300/Square (or \$3.00/sf) for field tile materials. Building owners can work with Ludowici to determine the best tile options based on their project's budget and roof system requirements. Considering the lifetime use of our product, the value of your peace of mind is priceless.

BASILICA OF THE
NATIONAL SHRINE
OF THE IMMACULATE
CONCEPTION

WASHINGTON, D.C.

PRODUCT: *Flat Slab Shingle Tile*
COLOR(s): *Custom Color Blend*
Washington, DC





PRODUCT: *Cubana Mission Tile*
COLOR(s): 40% Terra Cotta; 30% Dark Terra Cotta;
 20% Ebony Mist M>H; 10% Provence
Washington, DC



CATHEDRAL BASILICA OF THE IMMACULATE CONCEPTION



PRODUCT: French Interlocking Tile
COLOR: Historic Olive Green
Denver, CO





FIRST CHURCH OF
CHRIST, SCIENTIST
WEST PALM BEACH, FLORIDA

PRODUCT: Classic 14" Interlocking Tile
COLOR: Custom Blue Green Gloss (065-19G)
INSTALLER: CRS Complete Roofing Solutions

Honors: Winner of 2017 Shuler Award from
the Palm Beach Preservation Foundation



ST. JOHN NEUMANN CATHOLIC CHURCH
KNOXVILLE, TENNESSEE



PRODUCT(S): Spanish 18" and Flat Shingle Tiles
COLOR: Terra Cotta Impressionist

CATHEDRAL BASILICA OF SAINT LOUIS

ST. LOUIS, MISSOURI

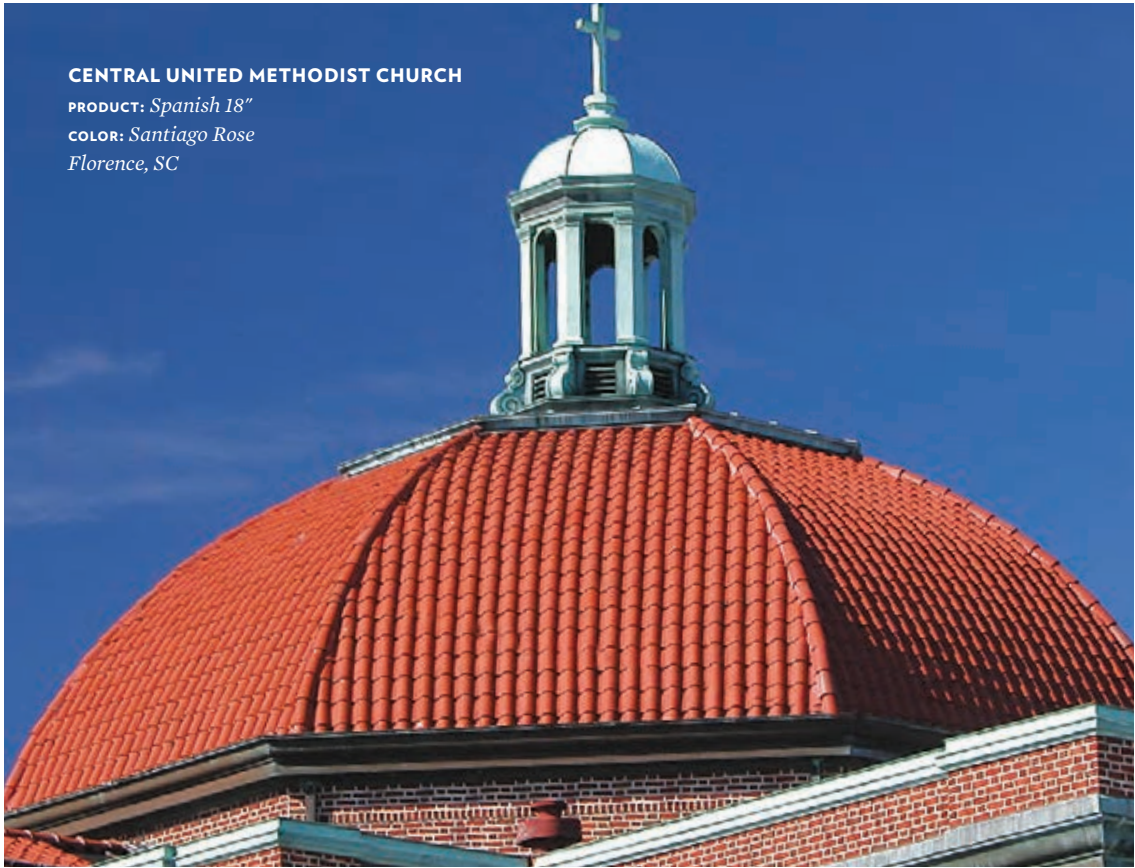


PRODUCT: Tapered Barrel Mission 16";
Italia graduated tile (dome)
COLOR: Dark Brookfield Green
ARCHITECT: Barnett, Haynes & Barnett (1907)





ZION CHURCH
PRODUCT: French Interlocking Tile
COLOR: Slate Red
INSTALLER: Precision Construction & Roofing
 Gowrie, IA



CENTRAL UNITED METHODIST CHURCH
PRODUCT: Spanish 18"
COLOR: Santiago Rose
 Florence, SC



VANCE MEMORIAL PRESBYTERIAN CHURCH
PRODUCT: Spanish 18"
COLOR: Clay Red
 Wheeling, WV



CUSTOM DESIGNS

LUDOWICI TILES are more than just beautiful. They are backed by one of the best material warranties in the industry. We give you peace of mind that your investment will last for many years to come, with a 75-year non-prorated material warranty, including color, on every tile we produce. Unlike most competitors, our material warranty:

- Includes color-fastness
- Is fully transferable on original installations
- Does not require venting of the roof for tiles to perform properly
- Is serviced domestically by our US-based company



ESTATES AT ACQUALINA | *Sunny Isles Beach, Florida* | **INSTALLER:** Decktight Roofing Services



PHILTOWER BUILDING | *Tulsa, Oklahoma*



PRIVATE RESIDENCE | *South Florida*



IOWA STATE UNIVERSITY HIXEN-LIED STUDENT SUCCESS CENTER | Ames, Iowa



FIRST BAPTIST CHURCH | Asheville, North Carolina



THE MONTEREY CONDOS | Dallas, Texas



PRIVATE RESIDENCE



WALL CLADDING

THERE'S NO NEED TO WONDER if you have all the parts and pieces that make up a beautiful Ludowici roof, floor, or wall system. Our in-house technical team will assist in determining exactly what you need. Our team is comprised of engineers and architects with vast product knowledge and industry experience to make getting you take-offs, tile identification, part drawings, modeling, or project estimates a breeze. Everyone works together to provide you with the correct materials and the technical support necessary to ensure your project is a success.

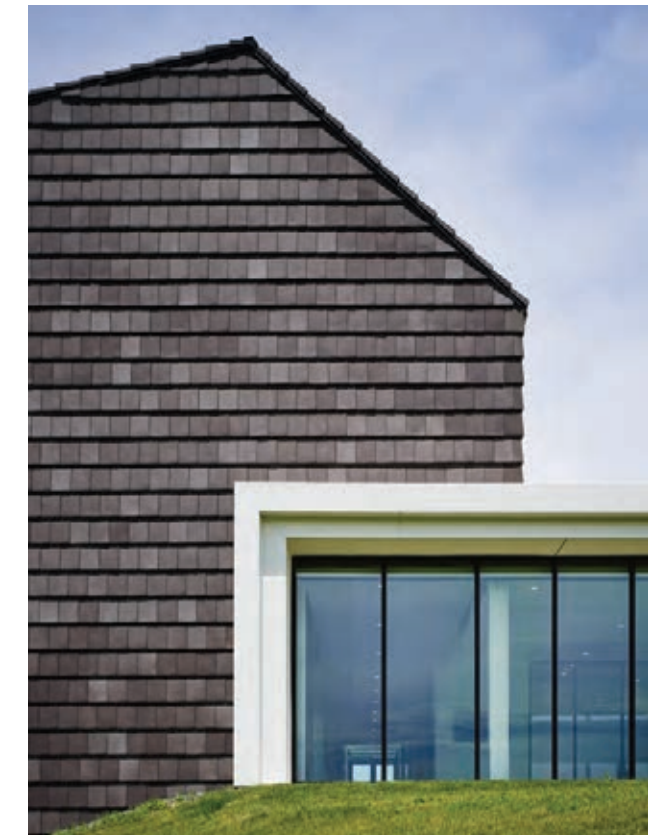


LUTHERAN CHURCH OF HOPE
Grimes, IA

MODERN USES OF THE MOST TRADITIONAL BUILDING MATERIAL

Ludowici offers a wide variety of highly innovative terra cotta wall cladding, rainscreens, and sunscreen solutions available through industry partners. Beautiful, durable ventilated façades and terra cotta panels combined with unsurpassed customization capabilities offer limitless architectural opportunities for projects in any climate.

WALL CLADDING *Façade solutions include small and large module cladding products, ventilated rainscreen systems, and direct-to-sheathing terra cotta cladding. Modern, authentic, and environmentally friendly, our wall cladding products continually invigorate application techniques and aesthetics. We offer highly effective solutions that meet the latest thermal, seismic, and environmental regulations. Our products are resistant to impact, wind, and frost, and certified by technical assessments around the world.*



CALIFORNIA STATE UNIVERSITY
Monterey Bay, CA



TYLER ARBORETUM EDIBLE GARDENS & CLASSROOM

MEDIA, PENNSYLVANIA

The Tyler Arboretum comprises 650 acres of plant collections, heritage and champion trees, historic buildings, and hiking trails. At the new Edible Garden and Education Building, visitors can learn about sustainable ways to grow fruits and vegetables through the “living classroom” with a series of teaching gardens, as it connects people back to their farming roots. In addition to natural farming, students learn hands-on methods for healthy lifestyles, cooking, gardening, stormwater management, rain gardens, and permeable paving options.

When Tyler Arboretum approached DIGSAU Architects, their mission was to use natural resources to stimulate an understanding of the living world. This inspired DIGSAU to design the primary exterior of the classroom building fully clad in terra cotta, using its likeness to the baked-earth terracotta flowerpots common to all types of gardening.



PHOTOGRAPHY: Halkin Mason Photography

PRODUCT: Lanai 14" and NeXclad 14"
COLOR: Weathered Historic Red
ARCHITECT: DIGSAU
INSTALLER: Gillespie Contracting
PHOTOGRAPHY: Halkin Mason Photography
 Media, PA

PRODUCT: Lanai 14" and NeXclad 14"
COLOR: Weathered Historic Red
ARCHITECT: DIGSAU
INSTALLER: Gillespie Contracting
PHOTOGRAPHY: Halkin Mason Photography
Media, PA





Ludowici was approached by DIGSAU to help provide a solution—since Ludowici can make so many shapes and colors, they thought, why not use it on the walls?

The classroom building is where the horticultural and food education seminars meet. It provides year-round seed-to-table learning about healthy eating, living, and harvesting land for reuse. The arboretum was looking for a natural material that could be incorporated into an organic setting, something that would last and really speak to their purpose. Ludowici's terra cotta tiles, essentially coming straight

from the earth, offered a natural bridge between the mission and the botanical world. To enhance the connection with the surrounding environment, the Ludowici tiles were fired without glaze mixtures to maintain their natural color. A small amount of surface texture was added prior to firing to develop tiles capable of hosting airborne microorganisms, pollens, and mosses for a purposeful natural look over time. The organic nature of this design goes hand in hand with what Ludowici believes in—the product is sourced from the earth and is a proud contribution to a more sustainable future.

PRODUCT: *Lanai 14" and NeXclad 14"*
COLOR: *Weathered Historic Red*
ARCHITECT: *DIGSAU*
INSTALLER: *Gillespie Contracting*
PHOTOGRAPHY: *Halkin Mason Photography Media, PA*

Much of the project's smooth installation can be credited to Gillespie Contracting and the NeXclad products used. This small module cladding system provides an economical, aesthetically pleasing, and low-maintenance facade in a variety of textures, colors, and sizes. Its innovation is in the way it's mechanically attached and smaller in scale, providing several opportunities for customization.





PRINCETON UNIVERSITY

PRINCETON, NEW JERSEY

In 2005, Princeton University set out to develop a ten-year plan to revitalize student housing on their campus. The Lakeside project had as a goal improvement to the condition and sustainability of their buildings while limiting the impact on the surrounding woodlands. Completed in 2015, Princeton University's newest graduate student community, Lakeside Apartments and Townhomes, provides housing for over 715 graduate students and their families in a collection of townhomes and mid-rise apartments on 14 acres of the main campus. The Lakeside community has an extensive student common area featuring a multi-purpose event space, staff offices, community living room, full kitchen, outdoor deck with barbecue, computer facilities, exercise room, and a wrapped 550-car

PRODUCT: LudoSlate NeXclad
COLOR(s): Custom Impressionist SL2/SL3/018-09M;
SM with Custom 130-11M SM accent tiles
ARCHITECT: Studio Ma
INSTALLER: Baker Roofing

parking structure. Winding through the complex are pathways and vistas carefully located to connect Princeton’s campus to the adjacent Lake Carnegie.

This large-scale project on such a prestigious campus faced a number of challenges throughout the design and construction phases. The design team conducted thorough testing of two existing 1960s-era concrete structures on the site and found that building new structures, with better orientation and an improved thermal envelope, would reduce carbon greenhouse gas emissions by 42 percent over a ten-year period, all while adding an additional 300 beds. Once the direction was set to replace the existing structures, the design team was tasked with creating a complex that would look and feel like a community, all while maintaining the richness and scale of the existing university buildings. As part of Princeton’s sustainability efforts, the complex needed to blend with the surrounding woodlands and meet LEED Silver Certification. The desire to create a LEED-certified community and tie the project to the natural setting led Princeton to Ludowici. The community features 250,000 square feet of Ludowici’s LudoSlate interlocking roof tile and NeXclad, manufactured by Ludowici’s wall cladding division.

*Awards: LEED Silver Certification;
USGBC NJ Residential Project of the Year.*



PRODUCT: LudoSlate NeXclad
COLOR(s): Custom Impressionist SL2/SL3/018-09M;
SM with Custom 130-11M SM accent tiles
ARCHITECT: Studio Ma
INSTALLER: Baker Roofing
Princeton, NJ



LIBERTY UNITED
METHODIST CHURCH
LIBERTY, MISSOURI

PRODUCT: *NeXclad 16*
COLOR(s): *Matte White and Ash Gray Mist*
ARCHITECT: *Dake Wells Architecture*
PHOTOGRAPHY: *Architectural Imageworks, LLC*
Liberty, MO



PRODUCT: NeXclad 16
 COLOR(s): Matte White and Ash Gray Mist
 ARCHITECT: Dake Wells Architecture
 PHOTOGRAPHY: Architectural Imageworks, LLC
 Liberty, MO



DELAWARE AREA
CAREER CENTER
DELAWARE, OHIO

PRODUCT: NeXclad True
COLOR: Matte Mediterranean Blue
ARCHITECT: SHP Leading Design
INSTALLER: Phinney Industrial
PHOTOGRAPHY: Josh Beeman Photography



NEW ENGLAND CONSERVATORY OF MUSIC
BOSTON, MASSACHUSETTS



PRODUCT: NeXclad 16
COLOR(s): Blend of Dark Terra Cotta; Custom Terra Cotta (129-01M/165-01M/173-00M/173-00M); and Terra Cotta Impressionist
ARCHITECT (s): Ann Beha Architects; Gensler
PHOTOGRAPHY: Weston Richey Photography
Boston, MA



BETHESDA NORTH HOSPITAL
MONTGOMERY, OHIO



PRODUCT: *Piterak Slim; Autan XL Sunscreens*
COLOR(s): *03 Champagne; 10 Chalk White*
TEXTURES: *Smooth & Fine Ridged*
ARCHITECT: *GBBN Architects*
INSTALLER: *Valley Interior Systems*
PHOTOGRAPHY: *Josh Beeman Photography*

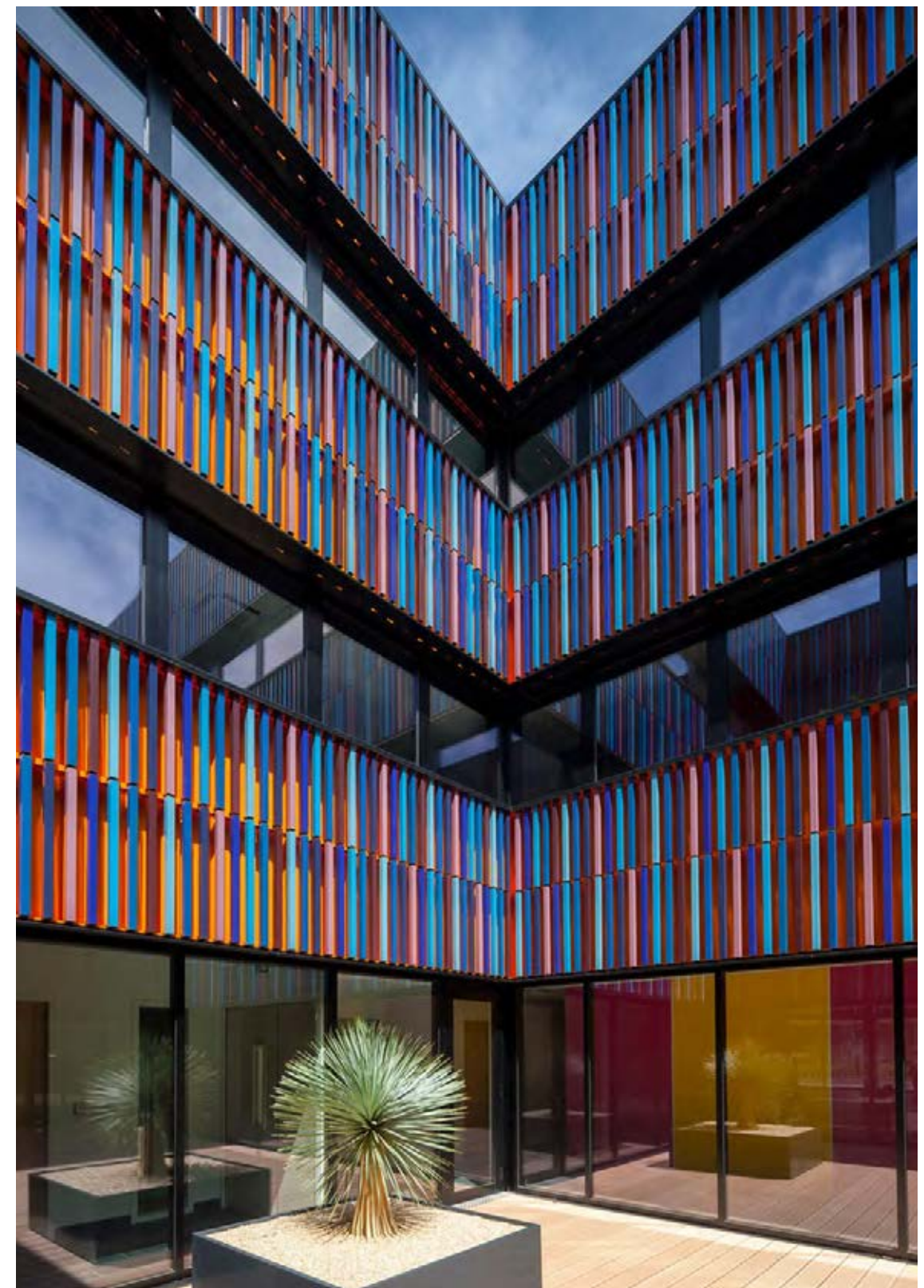




NURSERY FREMICOURT STREET | *Paris, France* | PRODUCT: *Autan, Autan XL*



VORK RESTAURANT | *Kortrijk, Belgium* | PRODUCT: *Autan XL*



CHAURAY MSA SEVRES-VIENNE | *Chauray, France* | PRODUCT: *Autan XL*



PRODUCTS

EVERY TILE Ludowici manufactures is ASTM C1167 Grade 1 certified. And that matters. ASTM classifies tile by a Grade 1, Grade 2, or Grade 3 certification based on its durability, appearance, and performance. Grade 1 tile is considered the highest performing and is approved for use in any climate. Lower grade tiles have high performance failures in areas like colder northern climates, where homes experience harsh winters and multiple freeze-thaw cycles, and in coastal regions, where salt intrusion, water absorption, and severe weather events are common. Ludowici products last a lifetime in any climate—and are always Grade 1 certified.

BARREL TILES

Ludowici offers a wide range of barrel roof tiles, so called because of their convex, barrel-like shape. Its barrel roof tiles are divided into two varieties based on their historic design origin—Spanish and Mission. Often synonymous with clay roof tile, Spanish tile is prized for its simple, one-piece barrel design, which presents a distinctive pattern of ripples across the surface of a roof. Included in the barrel tile category are Scandia, Spanish 13, and Spanish 18 profiles. Mission tiles faithfully match authentic Italian, French, and Spanish architecture in addition to Southwestern Mission design. High-profile barrels create distinctive shadows that change the look and feel of the roof as the sun moves across the sky, making a striking statement.



Scandia



Spanish 13



Spanish 18



Cubana



Greek



Italia



Palm Beach Mission



Roman



Straight Barrel
Mission 14



Straight Barrel
Mission 16



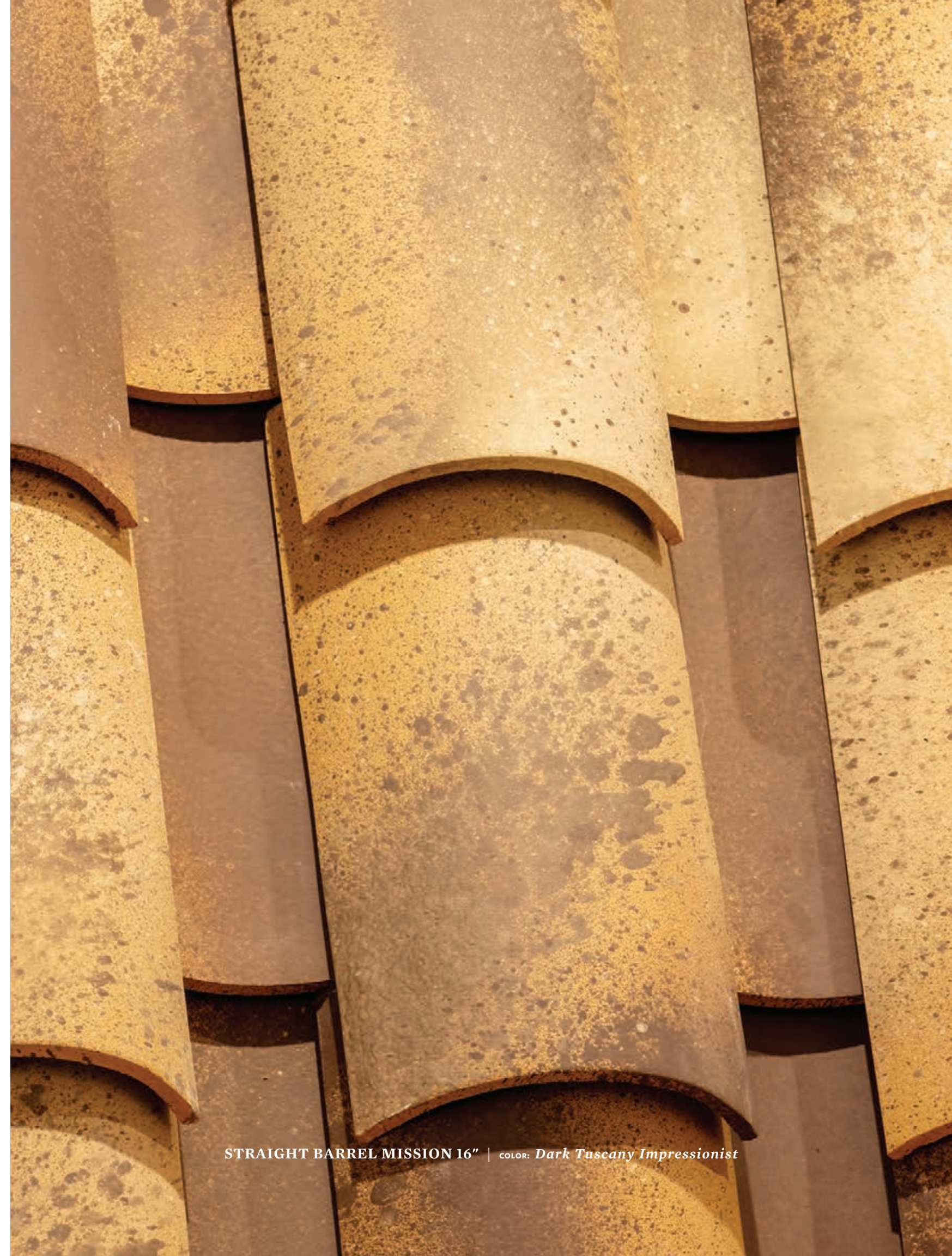
Straight Barrel
Mission 18



Tapered Barrel
Mission 14



SPANISH 18" | COLOR: *Fireflash Impressionist*



STRAIGHT BARREL MISSION 16" | COLOR: *Dark Tuscany Impressionist*

SHINGLE TILES

Ludowici's terra cotta shingle tiles are a series of flat tiles grouped by having either a formal or a rustic appearance. Shingle tiles come in a variety of textures that help to define the architectural style of each profile. Custom textures can be applied to match historic applications or to meet specific design needs. Texture is often used to help reduce glare reflected off a tile, thus allowing the true colors to show through. Many of our textures are applied by hand for a unique, artisanal appearance.



Antique



Brittany



Calais



Colonial



Cotswold



Cottage



Crude



Flat Slab



Georgian



Greenwich



Norman



Provincial



Rustic Colonial













RUSTIC COLONIAL | color: *Weathered Fireflash Impressionist*



CUSTOM SHINGLE TILE WITH BATTERED BUTTS | color: *Custom Color Blend*

INTERLOCKING TILES

With graceful proportions and classic aesthetics, Ludowici’s interlocking roof tiles were created to combine elegant shapes and installation efficiencies. These tiles feature interlocking channels for ease of installation, a wide variety of sizes and surface textures, and a range of flat and dimensional profiles. The sculptural fluting of the dimensional profile tile, also known as our French tile, is visually dramatic. Deep channels in our French tile provide exceptional drainage, and its thickness allows for unparalleled strength. The timeless elegance and clean-lined design of our flat interlocking tiles enhance all architectural styles while their larger scale ensures efficient installation.

 Americana 14	 Americana 16	 Classic 14
 Classic 16	 French	 Lanai 14
 Lanai 16	 Morando Closed Shingle	 Williamsburg 14
 Williamsburg 16		

AMERICANA 14"

DALLAS, TEXAS

COLOR(s): 34% Weathered Dark Terra Cotta;
33% Custom Color (SO/165-01M/M13/M10/129-01M)
33% Custom Color (SO/129-01M/M10/173-00M/M13)



SHAKE ALTERNATIVES

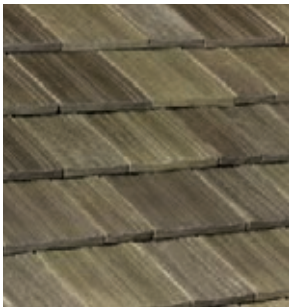
Ludowici's terra cotta shake roof alternatives feature pressed grooves, surface scratching, and rugged butts to mirror the appearance of real wood shakes without the maintenance. Unlike other shake roof alternatives, these are walkable, non-combustible and carry an ASTM Grade 1 certification for less than 2 percent water absorption. Each firing process ensures that a Ludowici shake roof will not fade nor discolor. Premier options offer three different tile sizes, presenting random widths blended for an authentic, natural look. If preferred, our skilled craftsmen can add warping to get the custom worn, aged look of a years-old wooden roof without the wait. Ludowici shake tiles should be considered the safest, fireproof alternative to similar roofing materials.



Century Shake



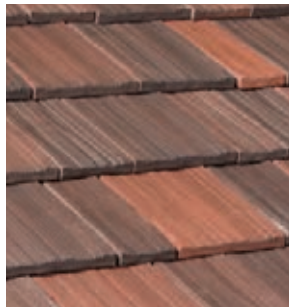
LudoShake



AGED CEDAR



EARTH GRAY



EBONY MIST



SIENNA



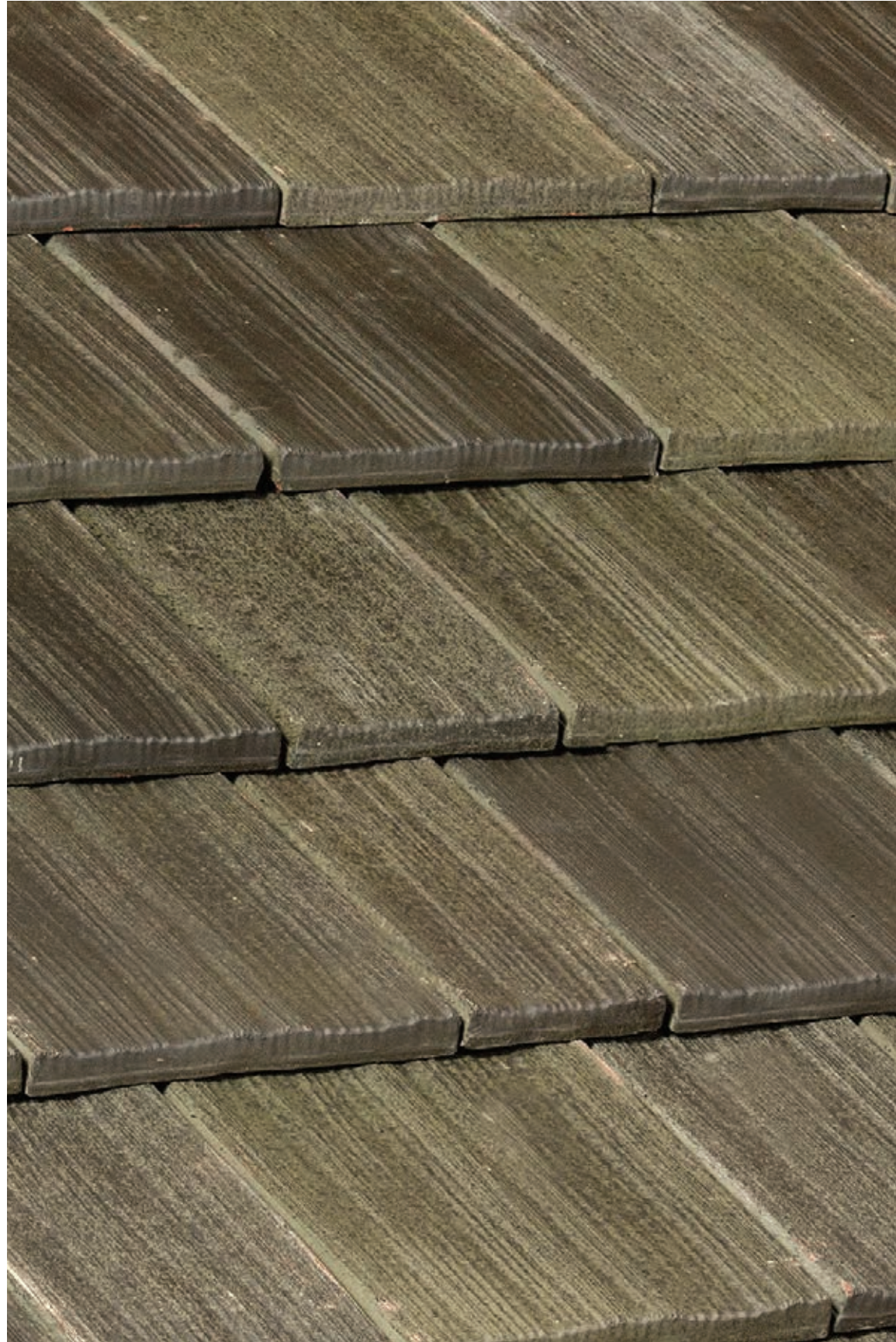
WHITE CEDAR



GOLDEN RED CEDAR



WESTERN CEDAR



CENTURY SHAKE | color: *Aged Cedar*



LUDOSHAKE | color: *White Cedar*

SLATE ALTERNATIVES

Ludowici’s slate roof alternatives feature all the beauty of natural slate with the enhanced durability and longevity of terra cotta. These slate interlocking tiles feature a pressed, quarried texture. Unlike other slate roof alternatives, Ludowici’s slate tiles are easier and less expensive to install than natural slate, more durable than synthetic slate, noncombustible, and carry an ASTM Grade 1 certification for less than 2 percent water absorption. Premier options are offered in three different tile sizes, allowing for an authentic appearance.



Lexington Slate



LudoSlate



BRUNSWICK BLACK



ANTIQUED
BRUNSWICK BLACK



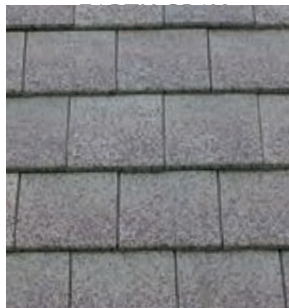
EBONY MIST



MONTPELIER GREEN



ANTIQUED
MONTPELIER GREEN



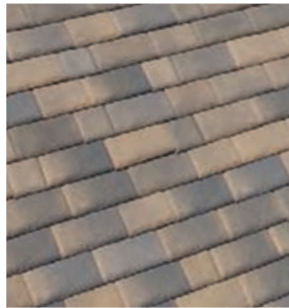
MOTTLED GREEN
PURPLE



PLUMSTONE



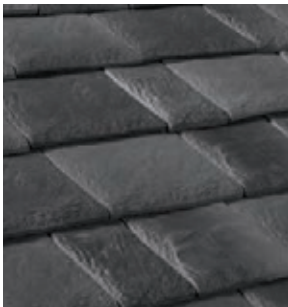
SLATE GRAY



ANTIQUED SLATE GRAY



SLATE RED



VERMONT GRAY BLACK



LUDOSLATE | color: 70% *Slate Gray*; 30% *Antiqued Slate Gray*



LEXINGTON SLATE | color: *Montpelier Green*

HISTORIC TILE

For over 130 years, Ludowici has crafted hundreds of unique terra cotta roof tile profiles and trim parts, ranging from heavily ornate Victorian-era designs to the simpler lines of the second industrial revolution. As architectural styles and tastes have evolved, so has Ludowici's product line. Although some products are no longer standard, Ludowici has a vast library of historic patterns and designs that can still be reproduced today.

Using historic catalogs, drawings, and technical guides dating back to the 1800s, our technical department can identify replacement parts for your historic roof. In addition to replicating our own historic tile profiles and trim, Ludowici can also match tiles from other manufacturers who have long since closed.



Conosera



EAOT



Heritage Closed



Jamestown / Tilestone



LWIOT



Seville



T-12

MAIN STREET STATION

RICHMOND, VIRGINIA

PRODUCT: *Conosera*
COLOR: *Historic Red*
ARCHITECT: *Baskervill*
INSTALLER: *Sanger's Quality Roofing*



SIGNATURES OF LUDOWICI

One of the most notable hallmarks of a Ludowici roof are our iconic high and low bump terminal accessory pieces. These statement pieces are often found in historic neighborhoods and in commercial architecture, and they stand proudly as a testament to the longevity of their craftsmanship. Molded by hand, these large pieces require the skill of our most experienced craftsmen.

Often used in conjunction with our high and low bump terminals, our #206 ridge is another historic beauty. An overlapping, cupped lip provides extra attention to detail with a seamless look.



*ABOVE Ludowici High Bump Terminal
LEFT Ludowici High Bump Terminal
with #206 Ridge*














LEFT Ludowici's custom Lion's Head accessory tile is one of many historic decorative examples that add detail and charm to a Ludowici roof.

ACCESSORIES & TRIM

Beautifully detailed trim pieces are signature elements of a Ludowici roof and are designed to be compatible with all profiles. We offer a wide range of trim options, from the stylized, ornate #206 and #211 to the clean- and simple-lined V-Hip/Ridge and Circular Covers. Ludowici continues to produce numerous historic and custom trim parts in addition to standard ones.




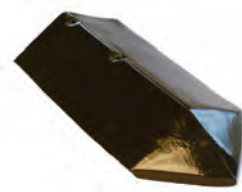
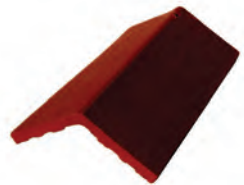


#102 / #206 TRIM GROUP

		
#152 Hip Starter	#102 Hip Roll	#206 ridge
		
#206 Ridge Vented Type I Slotted	#206 Ridge Vented Type II Dormer	#206 Closed Ridge End (starter shown)
		
#406 Gable Terminal High Bump; also available with Low Bump (finisher shown)	#102-#206 2 Hip 1 Ridge Terminal No Bump (finisher shown)	#102-#206 2 Hip 1 Ridge Terminal Low Bump (finisher shown)
		
#102-#206 2 Hip 1 Ridge Terminal High Bump (finisher shown)		

CIRCULAR TRIM GROUP

		
Circular Cover Hip Starter	Circular Cover Hip and Ridge	Circular Cover Closed Ridge End
		
Circular Cover Terminal 2 Hip 1 Ridge No Bump	Circular Cover 2 Hip 1 Ridge Low Bump	

V-HIP AND RIDGE TRIM GROUP

		
V-Closed Ridge End	V-Hip Starter	V-Hip
		
V-Ridge	V 2-Hip 1 Ridge Terminal	

#118 / #211 TRIM GROUP



#118-#211 2 Hip 1
Ridge Terminal



#168 Hip Starter



#211 Closed Ridge
End



#211 Ridge



118 Hip Roll

BONNET, ARIES AND
ROUNDED RIDGE TRIM GROUP



Aries Hip Plate



Bonnet Hip Roll



Bonnet Hip Starter



Rounded Interlocking
Ridge



FINIALS



Ball Finial



Ball Top 4 Hip
Terminal



Decorative
Ball & Leaf Finial



Decorative Finial



Tower Finial

DECORATIVE HIP STARTERS
AND RIDGE END CAPS



Lion's Head



Dolphin



3 Leaf



5 Leaf



Flower & Leaf



Shell

CUSTOM ACCESSORIES EXAMPLES



Decorative Ridge Tile



Fleurs



Fleur de Lis Ridge



Decorative Foo Dog



Buffalo



ABOVE Examples of the custom profile capabilities available by Ludowici's skilled craftsmen include LSU Tigers, Lion's heads, and rooster figurine.

OLD STONEY

PRODUCT: *Closed Shingle Tile*

COLOR: *Custom Matte Green Blend*

ARCHITECT: *Arthur La Belle (1892)*

Frankfort, IN

TOWERS/GRADUATED/DOMES

Crafting tile to fit curved roofs has been a specialty of Ludowici's since the late 1800s. To accommodate the geometry of a curved roof, Ludowici artfully tapers the tile to become progressively smaller from bottom to top.

After a thorough jobsite visit from our technicians, these graduated areas are custom measured to fit your specific roof. With these detailed field measurements, Ludowici craftsmen can design patterns & molds for each row of tiles. Ludowici can craft graduated tiles to match all of our tile profiles, including decorative finials.

With a consistent rafter length and roof slope, any of our profiles can be designed as a graduated tile – ensuring a uniform look across the roof planes on your project.

Tower tile is a tapered pan and cover system designed to be installed on cones with straight rafters and can accommodate a variety of rafter lengths and roof slopes. Tower tile is offered in three different sizes, each able to accommodate a range of rafter lengths:

—14-1/4" tower tile accommodates cones with rafter lengths from 48" to 90"

—16" tower tile accommodates cones with rafter lengths from 91"-157"

—18" tower tile accommodates cones with rafter lengths from 158" to 240"

The rafter length and roof slope of the cone must be consistent in order for tower tile to work. Ludowici's Technical Team can assist you with any questions you may have about your unique roof situation.





IMPORT TILE PROGRAM

If you're seeking old-world charm in a terra cotta roof that's moderately priced, you'll love Ludowici's imported tile. Manufactured by TERREAL, these clay tiles come in a range of profiles, colors and sizes and are available exclusively through Ludowici.

Prominent in the architecture across the Mediterranean and the south of France, the Languedocienne mission barrel system features larger dimension generously curved terra cotta tiles comprised of tapered mission caps and pans with a smooth surface. The long length tile results in fewer pieces per square, creating one of the most economical roof tile systems on the market. Languedocienne is manufactured in the Occitanie region of southern France and carries a 50-year manufacturer's material warranty.

Manufactured along the Burgundy wine region of eastern France, Volnay PV is both elegant and reliable, setting a new standard among large flat interlocking tiles. Heir to the Volnay Lambert, from which it received the legendary robustness and excellent watertightness, the Volnay PV tile offers a generous 68 mm variable gauge. It has the same overall dimensions as its predecessor, and is compatible with all accessories common to Terreal's 10 per sq.m. variable gauge tiles. Its fine and elegant beveled nose and its graceful lines enhance the plain tile "feel" of roofs it covers.



PRODUCT: *Languedocienne*

LANGUEDOCIENNE



BRUNE



CASTELVIEL



CATHEDRALE



FLAMME



PANACHE ANCIEN



PANACHE FONCE



ROSE



ROUGE



TERRE DU SUD

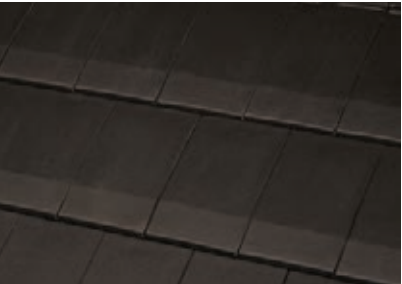


VIEILLE TERRE



VIEUX MIDI

VOLNAY



ARDOISE



BRUN



PANACHE AUTOMNE



ROUGE FLAMME



SABLE CHAMPAGNE



VIEILLI LAUZE



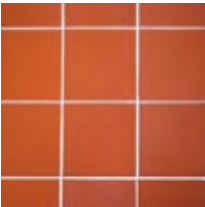
VIEILLI BOURGOGNE



PRODUCT: *Languedocienne*
COLOR(s): *Dark Oldish Provence Covers & Oldish Pans*
Vero Beach, FL

QUARRY FLOOR TILE

Ludowici quarry floor tile can be found in significant institutions across the country, including the White House and Rockefeller Center. This high-traffic, commercial-grade flooring is made from the same clay and firing techniques as our roof tiles. Available in standard or custom matte colors and smooth or non-skid surfaces, this clay tile flooring is suitable for any climate or application and comes with our 75-year material warranty.



PROMENADE 9" X 9"



PROMENADE 6" X 9"



PROMINENCE



VALENCIA



Ellis Island, New York

DESIGNER FLOORING BLEND EXAMPLES



PRODUCT: Promenade 6x9 Quarry Floor Tile
COLOR: Blue Blend



PRODUCT: Valencia Quarry Floor Tile
COLOR: Green Blend



COLORS/TEXTURES

With over 50 standard designer colors and the ability to custom-match nearly any hue, Ludowici's color possibilities are endless. We work hand in hand with architects, designers, and homeowners to create beautiful custom color blends and designs by mixing hues to create a subtle, or dramatic, one-of-a-kind roof statement.



TERRA COTTA TEXTURES

Texture is a beautiful way to add variation to an already artistic expression. At Ludowici, skilled craftsmen can recreate finishes that authentically replicate the surface of age-old tiles. Custom textures can be applied to match historic applications or to meet your specific design aesthetic. Textures help reduce glare reflecting off a tile and allow the true color to show through.

For added depth, many tile textures are applied by hand, which replicates the beauty and feel of real wood shakes or pressed quarried slate. For example, if you want the look of an aged wood roof, Ludowici can reproduce the natural warping with a rustic feel, rather than waiting 15 or more years for your wood shake roof to curl.



SMOOTH



FINE MACHINE SCORE



MEDIUM MACHINE SCORE



HAND ROUGHED



PINHOLE



WEATHERED



HAND SLUSHED



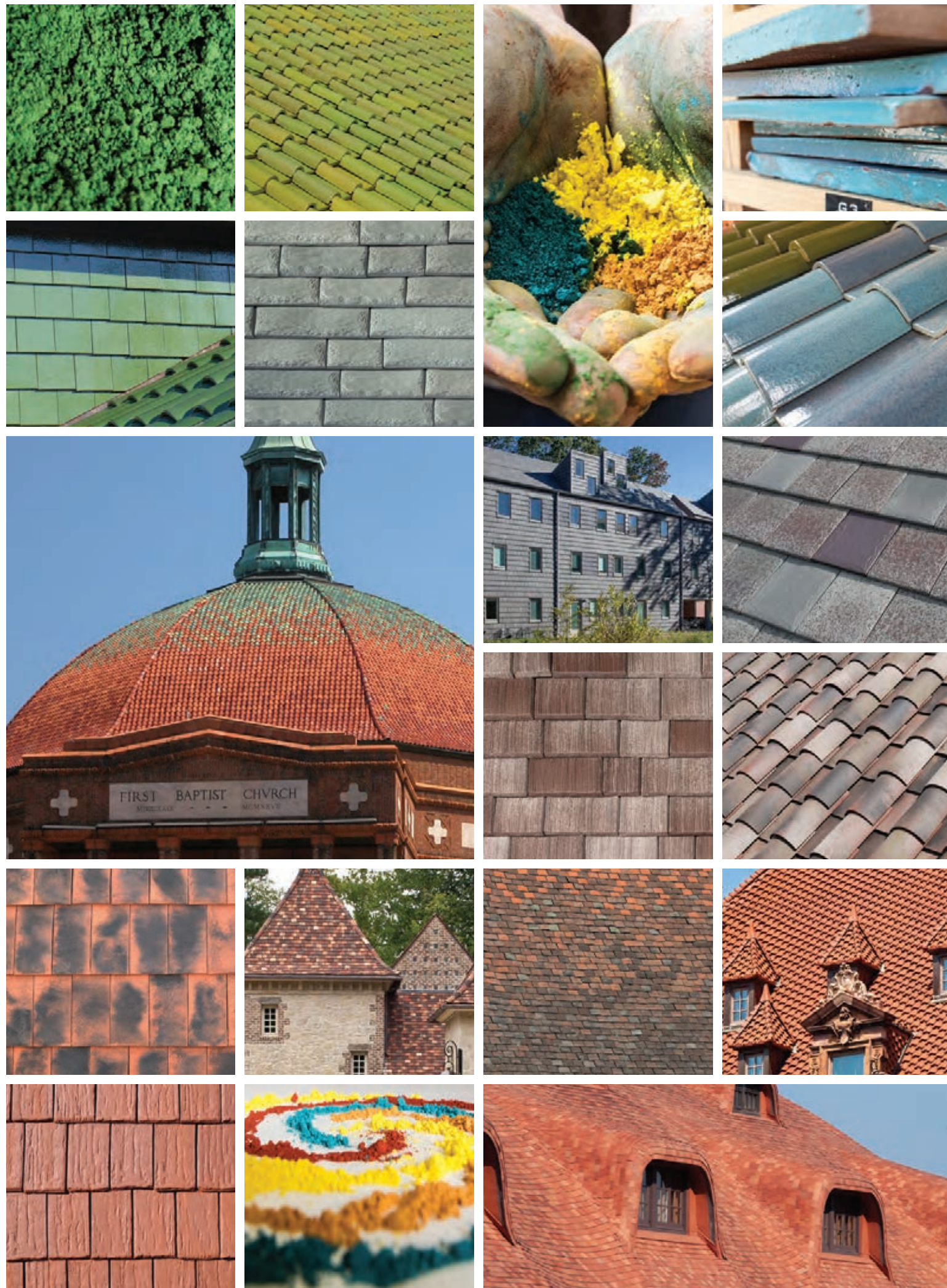
BATTERED & BRUSHED BUTT



BATTERED BUTT



WARPED



THE ART & SCIENCE OF LUDOWICI COLOR

Terra cotta by its very nature is warm, earthy, and inviting. Enhancing the natural qualities of terra cotta by adding in a glaze mixture prior to firing can create spectacular colors unable to be replicated by other roofing materials.

Creating the color of a terra cotta roof tile is part science and part art. A natural range of tones always exist within any given color.

Ludowici is widely accepted as the industry expert in glazed terra cotta tile. With over 50 designer color blends and the ability to custom match nearly any hue, the color possibilities are endless. Plus, our color glazes are kiln-fired at extreme temperatures during production, fusing the color into the tile and ensuring that the original tones and hues last for generations.



GLAZES

Ludowici offers over 50 standard color glaze options with the ability to custom match almost any color. From gleaming glosses to our patented multi-spray glazing techniques and handcrafted finish textures, Ludowici is the recognized expert in creating custom colors and surface textures.

Mixing a custom glaze color is not like mixing a paint color. Our ceramic engineers start with a basic formula, and based on the desired color, they mix, adjust, and fire different trials to test each outcome.



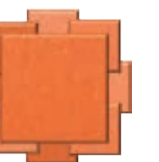
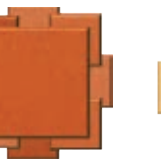



























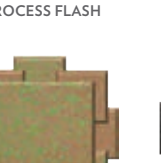








Then, those fired colors (glazes) are analyzed, adjusted, and mixed again and again until the desired color formula is created. All good things take time, so be sure to factor in this process when choosing customization for the production schedule of your project.

As with all our standard glaze colors, a range can be seen within the custom color. This is a natural and desirable outcome of working with terra cotta, creating depth and visual appeal that other materials can't.

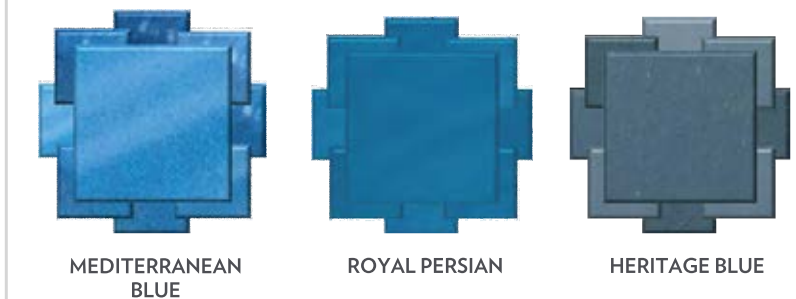
STANDARD COLOR BLENDS

		
CLAY RED	SUNSET RED	SLATE RED
		
EMPIRE GREEN	BRIGHT GREEN	VINTAGE GREEN
		
PLUMSTONE	BRIAR BROWN	AGED OAK
		
SLATE GRAY	MONTPELIER GREEN	ASH GRAY
		
SIENNA	WHITE CEDAR	GOLDEN RED CEDAR
		
ANTIQUED SLATE GRAY	WESTERN CEDAR	VERMONT GRAY BLACK

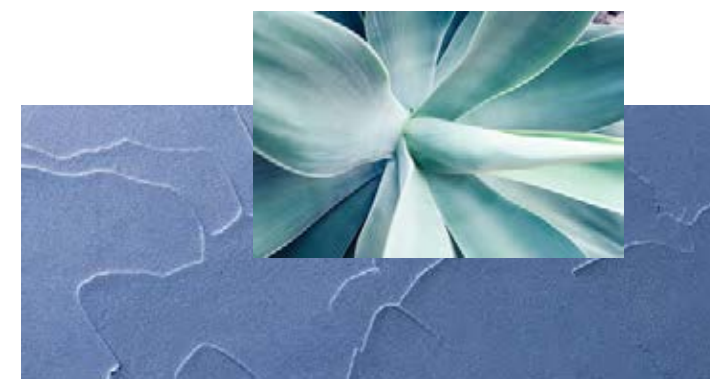
IMPRESSIONIST SERIES

						
BURGUNDY	SUMMER ROSE	SANTIAGO ROSE	HISTORIC RED	DESERT SAND	PROVENCE	TUSCANY
						
BARCELONA BUFF	BROOKVILLE GREEN	DARK GREEN	MEDITERRANEAN BLUE	ROYAL PERSIAN	DARK TUSCANY	VILLIAGO
						
HERITAGE BLUE	BEACH BROWN	EBONY	BRUNSWICK BLACK	MIDNIGHT BLACK	FIREFLASH	TERRA COTTA
						
LAVA BLACK	MATTE WHITE	ADOBE FLECK	PROCESS FLASH	SUNSET RED EBONY MIST	DARK TERRA COTTA	ANZIANI
						
EBONY MIST	AGED CEDAR	FOREST GREEN	AGED COPPER	EARTH GRAY	VECHIO	FIELD GREEN
						
ANTIQUED MONTPELIER GREEN	ANTIQUED BRUNSWICK BLACK	MOTTLED GREEN PURPLE			STRATA GRAY	ANTIQUED PEWTER

Blue Hues



MEDITERRANEAN BLUE ROYAL PERSIAN HERITAGE BLUE





Green Hues



EMPIRE GREEN



BRIGHT GREEN



VINTAGE GREEN



AGED COPPER



FOREST GREEN



FIELD GREEN
IMPRESSIONIST



MOTTLED GREEN
PURPLE



BROOKVILLE GREEN



DARK GREEN



MONTPELIER GREEN



ANTIQUED
MONTPELIER GREEN

Red Hues



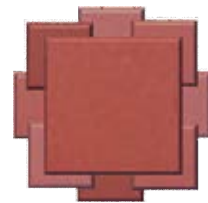
CLAY RED



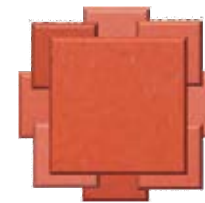
SUNSET RED



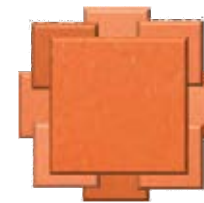
SLATE RED



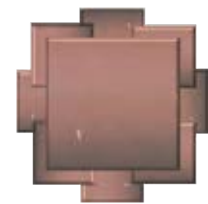
BURGUNDY



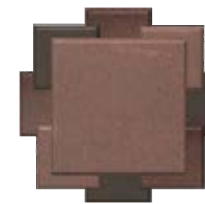
SUMMER ROSE



SANTIAGO ROSE



PROCESS FLASH



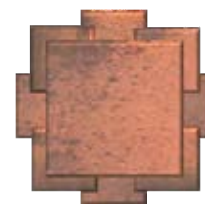
EBONY MIST



SUNSET RED WITH
EBONY MIST



DARK TERRA COTTA
IMPRESSIONIST



ANZIANI
IMPRESSIONIST



VECHIO IMPRESSIONIST





neutral hues



DESERT SAND



BARCELONA BUFF



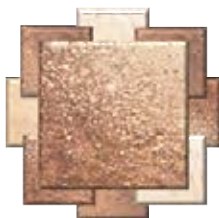
MATTE WHITE



PROVENCE
IMPRESSIONIST



TUSCANY
IMPRESSIONIST



DARK TUSCANY
IMPRESSIONIST



ANTIQUED BRUNSWICK
BLACK



Brown hues



AGED CEDAR



SIENNA



WHITE CEDAR



WESTERN CEDAR



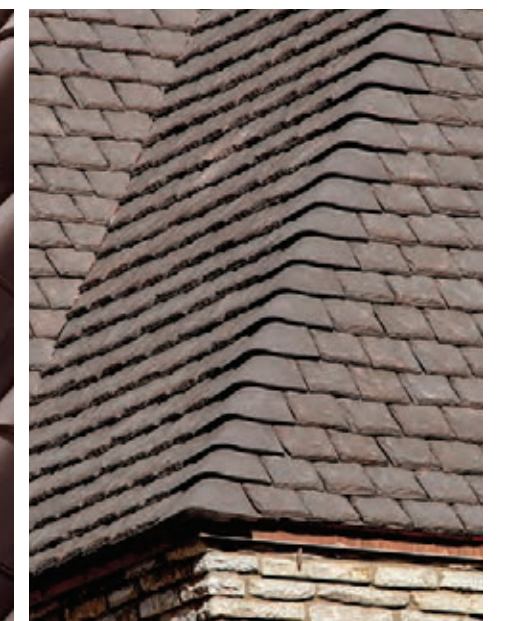
BEACH BROWN



BRIAR BROWN





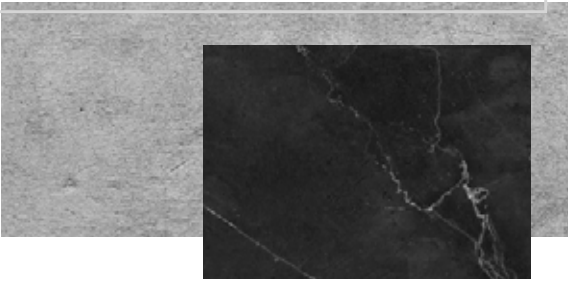
AGED OAK





gray hues

		
ASH GRAY	ANTIQUED PEWTER	SLATE GRAY
		
ANTIQUED SLATE GRAY	EARTH GRAY	STRATA GRAY IMPRESSIONIST
		
VERMONT GRAY BLACK	BRUNSWICK BLACK	MIDNIGHT BLACK
		
LAVA BLACK	EBONY	





THE LUDOWICI
FACTORY



Planning a visit to the Ludowici manufacturing facility in New Lexington, Ohio, is an experience like no other. Having been in continuous operation for over 130 years, this former brick plant produces every piece of Ludowici tile made today with the help of our operations and factory teams. Each step of the process—from raw clay harvesting and glazing, to drying and firing—is done here at our corporate headquarters.

The life of a clay tile starts with harvesting its raw materials. Southeast Ohio boasts some of the finest clay deposits in the world, with ours being procured just nine miles down the road from our production facility. Our strategic proximity gives us the ability to develop premium products from these locally sourced raw materials.

To produce ready-to-mill clay, we combine a mixture of part shale clay and part fire clay. After considering additional scientific and environmental factors, like the amount of mineral fritz and moisture content, these ingredients form a recipe of materials ready for production. Next, the raw clay mixture is ground to a fine powder and sent on a conveyer belt through a screening



ABOVE Present day Ludowici tile plant in New Lexington, Ohio produces millions of pieces of tile per year.

process. Pieces too large to pass through the screen are recycled back through the grinder until our standards are met.

From here, Ludowici follows the standard process for working with clay and ceramics. Our factory comprises multiple lines with interchangeable forming processes for specific profiles. Each line requires coordinated scheduling with a specified number of crew members, depending on the quantity and profile type being run. Individual clay profile shapes are formed on the different production lines by various types of extrusion or pressing processes. For custom specialty tile, handmade plaster patterns with top and bottom molds are fabricated and stored for later use. We house all our historic patterns and replica templates made over the years so they are easily accessible to reproduce.

Following the forming process, each made-to-order unfired tile is glazed and placed in



LEFT Throughout the production process each tile is touched an average of 27 times, with some profiles requiring up to 17 employees per line.
ABOVE Tiles using our two-spray color spot or misting applications go through a separate hand-spray booth.
OPPOSITE Pressed tiles are put onto individual car trays to be sent to dry for 24 hours before entering the kiln.





Ram
Press



LEFT Custom molded top and bottom patterns are fabricated on site and stored for future use.

individual trays on long drying cars to be sent to preliminary dryers in order to remove any excess moisture from the clay before reaching the kiln. Recycled heat is sent from the tunnel kiln to the dryer ovens. By the time our tiles reach the tunnel kiln, they have made it 80 percent of the way through production.

Ludowici has spent over 130 years perfecting the art and science of kiln-firing clay. Creating the highest quality clay tile not only comes from the composition of the raw materials, but also how they are fired. Firing is one of the most important and most altering techniques in the process. Too much or too little heat can, and will, cause issues detrimental to the life, appearance, and functionality of the tile. Our tiles are kiln-fired at 2100 degrees Fahrenheit for 24 hours to ensure the glaze color has been permanently fused onto the tile. We guarantee the color permanence, and it is included in our 75-year material warranty. Another outcome of this production process is that it allows our tiles to form into a dense, vitrified material with the highest breaking strengths available, essential for peak performance.

UNDERSTATED
ELEGANCE

MODERN USES
OF THE MOST
TRADITIONAL
MATERIAL

DESIGN CENTERS



FACTORY OF IDEAS

Ludowici's Factory of Ideas design center is a unique hands-on facility where visitors work one-on-one with our on-site experts to design their new roof. Housed in a renovated 130-year-old factory building at our corporate headquarters in New Lexington, Ohio, visitors will browse our entire product line—including decorative and historic tiles and trim—select clay tiles for their project, experiment with colors and blends, and build mock-ups at the correct pitch and proper orientation for their specific needs. Visitors can study transitions, explore a variety of trim styles, and solve unique construction challenges with Ludowici experts. Once approved, the mock-up serves as a template for their project, with full-size tile and trim pieces. Be sure to leave time for a tour of the manufacturing facility for a one-of-a-kind experience to see firsthand how we create your tile and to visit with Ludowici artisans at work.





MODERN USES
OF THE MOST
TRADITIONAL
MATERIAL

THE ART & SCIENCE
OF LUDOWICI COLOR

DALLAS DESIGN CENTER

Ludowici's 9,000-square-foot design center is located at the heart of the Dallas Design District. Our goal was to create a space where beautiful, high-end, and sustainable building surface materials could come together in a single location. Vibrant color and texture combinations are surrounded by luxury



LEFT Design Center vignettes showcase many of the partner products offered, like this example of Ludowici's Lexington Slate roof tile with snow guards, copper rainwater systems and a stone façade.

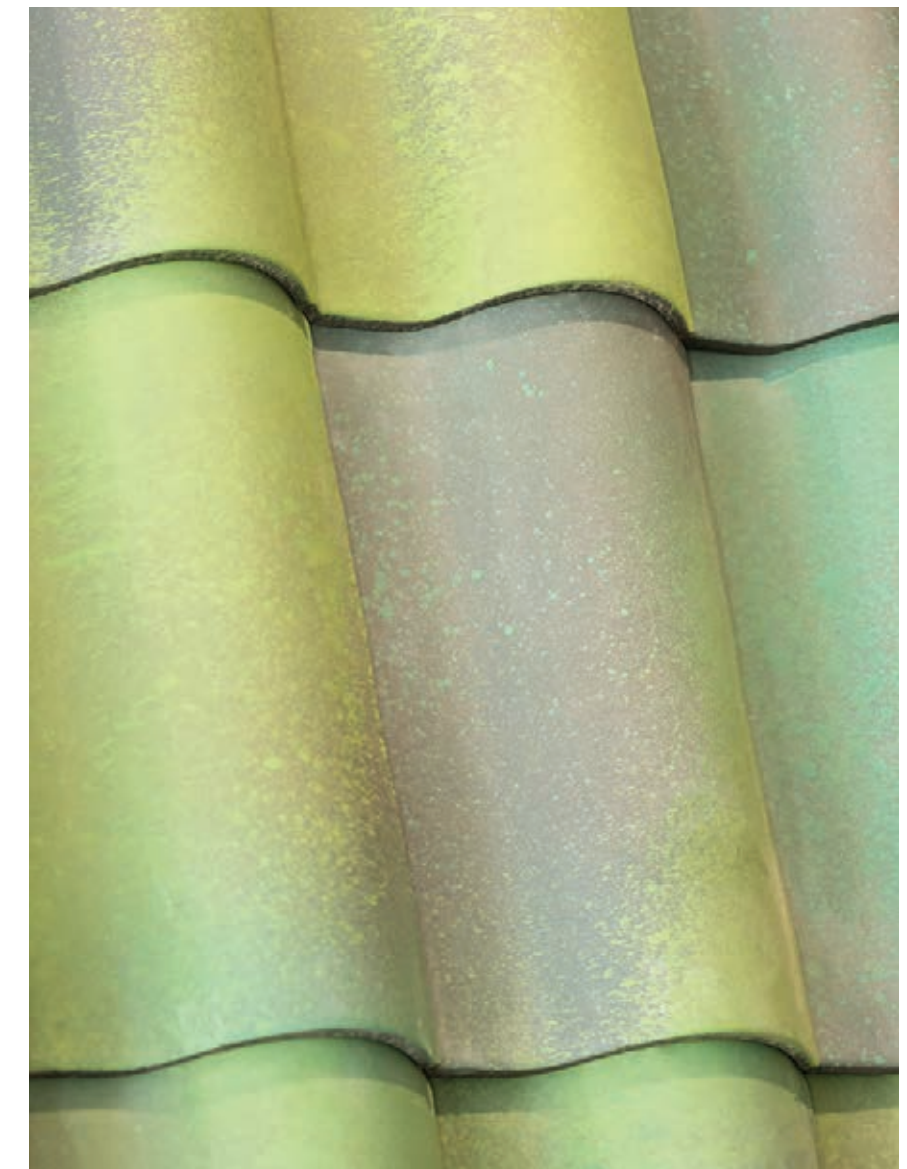
surface material vignettes. Hundreds of roof tile lay-ups and color combinations make design options endless.

Within our showroom we have partnered with the finest luxury building materials manufacturers in the industry. Showcased throughout are beautiful, fine quality partner product displays. Our design center is the ideal place to view and pair all types of luxury materials for any building's major surfaces (roofs, walls, and floors) without having to travel between multiple showrooms. Our partner products



include European Limestone, French Oak flooring, French windows, handmade brick, cut stone, wood beams, copper and zinc gutter systems, snow guards, and chimney pots.

Our Design Center is divided into seven primary areas, each focusing on a different architectural design style. The first area displays terra cotta roof tiles that are molded to replicate the look of stone and slate. The second area illustrates styles with the appearance of wood materials, such as hand-split cedar shakes. The third exhibits small, rustic terra cotta



OPPOSITE Vibrant color boards display our range of standard glaze offerings.
ABOVE A close up of Spanish 18" interlocking barrel tile on display in *Field Green Impressionist*.

*RIGHT Roofing displays
in six unique bays
showcase a variety of
architectural styles
and profiles.*

shingle tiles, abundantly seen throughout Northern France and Europe, followed by the fourth—an arrangement of various Spanish styles in popular color schemes. The fifth demonstrates a mixture of mission roof tiles in several old-world color combinations, some of which are produced in the South of France. Our sixth area consists of a variety of terra cotta wall cladding and rainscreen systems with different panel profiles and finishes offered by Ludowici. Our seventh, and most unique, area presents over 200 color and texture combination options regularly produced by Ludowici. Customers can select any of these combinations to be applied to their terra cotta profile of choice.



ADDITIONAL CREDITS **FRONT COVER** iStock/pavelalexeev (first row, middle); iStock/Denice Lugo (first row, right); iStock/mofles (second row, left); iStock/vaitekune (third row, right); iStock/SafakOguz (fourth row, right) • **PG 8** (top to bottom) courtesy iStock; iStock/pernsanitfoto; iStock/Chimpinski • **PG 8** iStock/MistikaS (top); iStock/LightFieldStudios (bottom) • **PG 11** iStock/wrangel • **PG 12** Malgorzata Kistryn/Adobe Stock (top); iStock/Denice Lugo (middle) • **PG 13** iStock/yuri4u80 (top); Malgorzata Kistryn/Adobe Stock (middle) • **PG 18** trongnguyen/Adobe Stock (bkgrd) • **PG 24** iStock/mofles (middle left); iStock/pavelalexeev (middle right); iStock/bebuntoon (bottom left); iStock/scaliger (bottom right) • **PG 25** iStock/Hung_Chung_Chih (top left); iStock/pavelalexeev (top right); iStock/piyaSriwattanakul (bottom left); CeHa/Adobe Stock (bottom right) • **PG 250-251; 301** Joe Hendrickson/Alamy Stock Photo • **PG 314** iStock/NTCo • **PG 429** iStock/Yana Tatevosian (middle left); iStock/Svetlana-Cherruty (center bottom); iStock/Burak Can Oztas (middle right); iStock/Julia August (bottom left) • **PG 430** iStock/RMAX (bottom right) • **PG 432** iStock/Elen11 (top) • **PG 435** iStock/Larysa Harmash (bottom right) • **PG 437** iStock/Giorez (top right)