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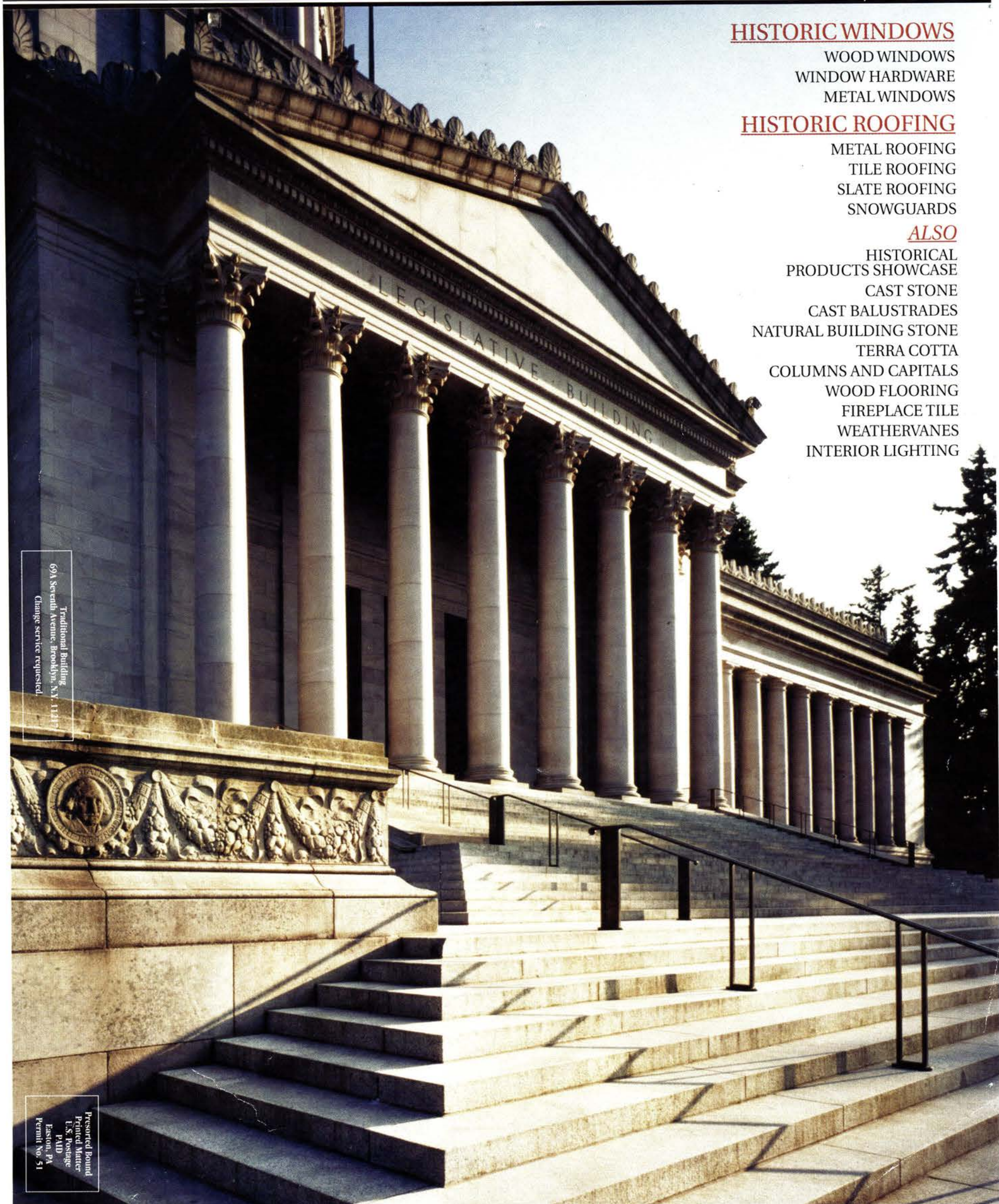
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ON THE COVER: The 42 steps leading to the main entrance of Washington State's Legislative Building in Olympia, Wash., represent its acceptance as the 42nd state of the Union. The restoration of this stair, by Leavengood Architects of Seattle, Wash., was only part of a \$101 million rehabilitation that included the repair and cleaning of the facade's damaged stone, the replacement of leaking roofs, and many interior renovations. For more information on this building, see the Stone Restoration article on page 81 and the Profile of Einhorn Yaffee Prescott, the firm in charge of the rehabilitation, on page 6.

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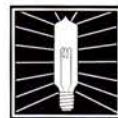
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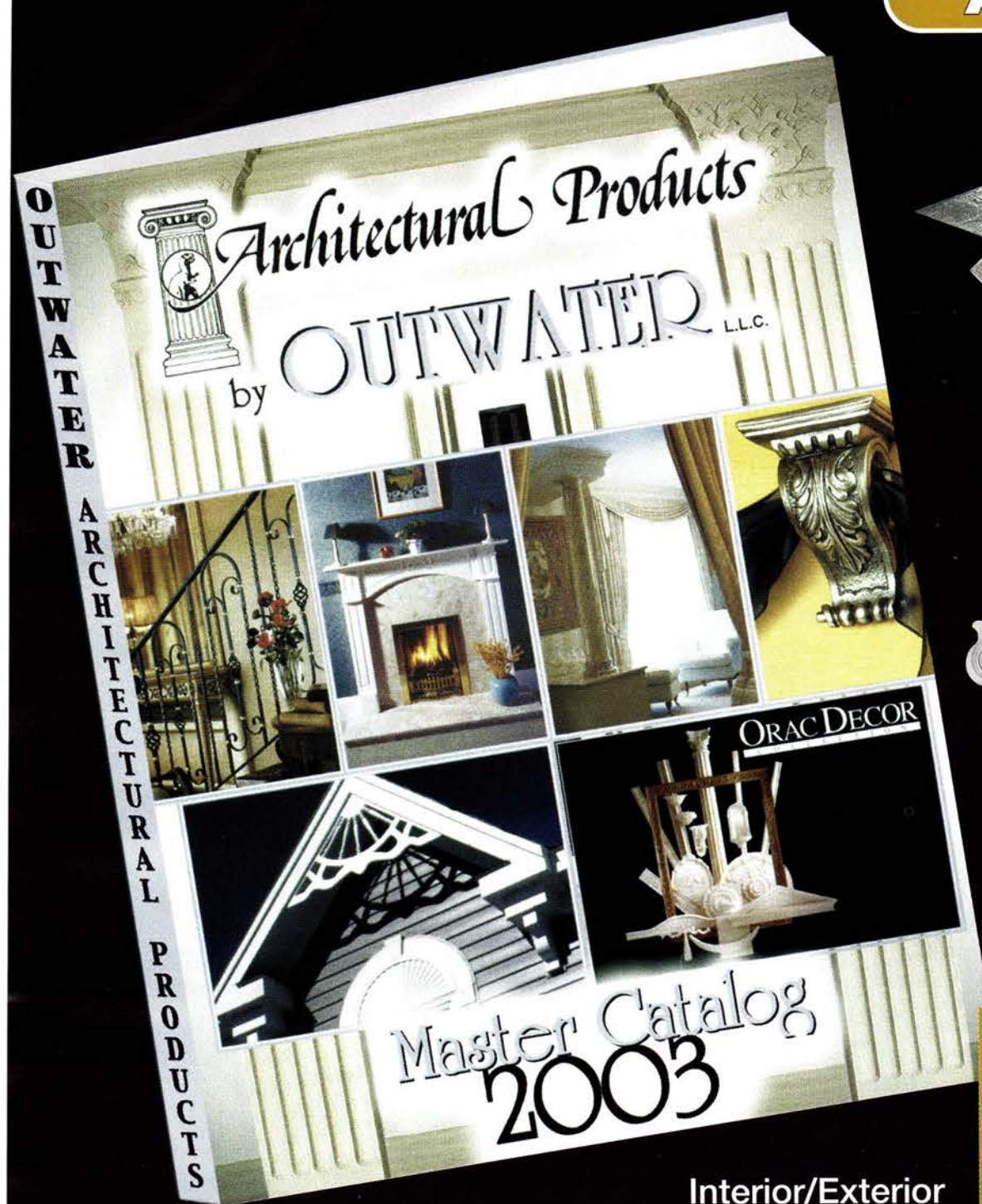
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WRITE IN NO. 2635

MIXED COMPANY

Einhorn Yaffee Prescott Architecture & Engineering
has developed specialized expertise and a preservation ethic across its mix
of architects, engineers, and specialists.

by Kathleen Randall

Engineers and architects don't always sit happily at the same table when a building renovation is at stake. When Einhorn Yaffee Prescott Architecture & Engineering (EYP) was formed 30 years ago, the founding partners envisioned a culture integrating the two disciplines. This culture exists today in the firm and continues to yield not only friendly words across the table, but also extremely innovative, highly successful projects.

EYP now counts a staff of 420 in four offices: Albany, New York, Boston, and Washington, D.C. The architects, engineers, interior designers, and technical support staff are mixed throughout the offices. Mark Thaler, AIA, a principal in the Historic Preservation Group, believes that this vision of integration accounts for the firm's excellent reputation in historic preservation and building rehabilitation. "Early on, EYP recognized the importance of integrated architecture and engineering. If we simply restore the architectural finishes without putting in the infrastructure that people today count on being there, we're not doing our jobs; the buildings are not going to be successful."

In this article, four leaders of the firm's Historic Preservation Group discuss their current projects and how the culture of integration plays out in the field.



Left to right: Matthew Chalifoux, AIA; Marie Ennis, P.E.; Mark Thaler, AIA; David Fixler, AIA

Investigative Techniques for Buildings

Principal Marie Ennis, P.E., combines an engineering background with an historic preservation degree from Columbia University. Early in her career, she collaborated on a grant from the Army Corps of Engineers to implement various nondestructive techniques in the evaluation of historic building systems. Following this work, Ennis went on to chair the American Society for Testing Materials' subcommittee on nondestructive evaluation techniques. This interest in how nontraditional technologies used in building evaluation can be integrated into assessment and restoration work has kept Ennis and her colleagues on top of new tools.

In 1994, when EYP was working on the Jefferson Memorial, Ennis connected with a scientist who could do impact echo testing in order to investigate what appeared to be superficial cracks in the Memorial's marble columns. Without opening up the columns, the team was able to determine the depth of each crack. At the time, Ennis recalls, "We had to seek these people out. The technology came from the concrete industry, where it was used to check subsurface delaminations. It had not been applied to investigating historic structures." Similar borrowings have led to the use of infrared thermography, x-ray, electromagnetic detection, and ground-penetrating radar.

Federal Hall

At Federal Hall in New York City, EYP is using ground-penetrating radar to map voids beneath the subbasement slabs and is installing a computerized monitoring system to track the building's movement. Ennis is in charge of the project, which began in the days after September 11th. The collapse of the World Trade Center created a seismic event at Federal Hall, which stands only blocks away. There was concern about new damage to the building, which has a history of foundation problems.

Federal Hall was built in the 1840s on the site where once stood the building in which George Washington took his oath of office. Its history goes way back, as do its cracks. The building is constructed of massive load-bearing masonry making it very heavy for its size. "I've never seen anything quite like it," says Ennis. "There is no steel. The exterior is marble, the interior piers and bearing structure are brick. The roof is marble supported by brick arches. It was used as a subtreasury so it has vaults. It is one very, very massive little building."

In 1910, when a taller neighbor was built directly to the east, Federal Hall's foundation was underpinned on the east side. In the 1930s, when the subway line was constructed along the west side, underpinning was again added on one side. This was followed by years of infrastructure upgrades to serve the Wall Street area — water mains, communication lines, and other subterranean mysteries. Water main breaks, constant subway rumblings: it's no wonder, says Ennis, that "this building has been sinking in the middle where they didn't do anything."

The plan is to start at the bottom and work up. "A monitoring system is

going in, before we do anything, to make sure the building doesn't move while we are working," says Ennis. She also adds that the system will be kept in place beyond the restoration work so that EYP engineers can monitor the building weekly from their desktop computers. After installing the monitoring system, focus moves to the subbasement where, working with an archeologist, EYP will dig several test pits to expose the old foundation. Ground-penetrating radar will be used over the entire subbasement to look for voids. Ennis says permanent repairs will probably be a combination of underpinning and soil grouting.

One of the questions Ennis hopes

to answer with the monitoring is whether sustained vibrations bother old buildings. The subway rumbles past Federal Hall's foundations every five to ten minutes, 24 hours a day. "Some people say no, not at all," says Ennis. "My experience is that it can be detrimental. We'll have the opportunity to monitor the building as the subway goes by. We have seismographic monitors and other gauges that measure factors like plumbness, temperature, humidity, and crack movement from the subbasement to the attic. The system will show us how the vibration travels through the building."

Once the foundation has been stabilized, renovation work will begin. The HVAC system, which dates from the early 1980s, will be replaced and the security systems will be completely redesigned.

Preservation as a Design Discipline

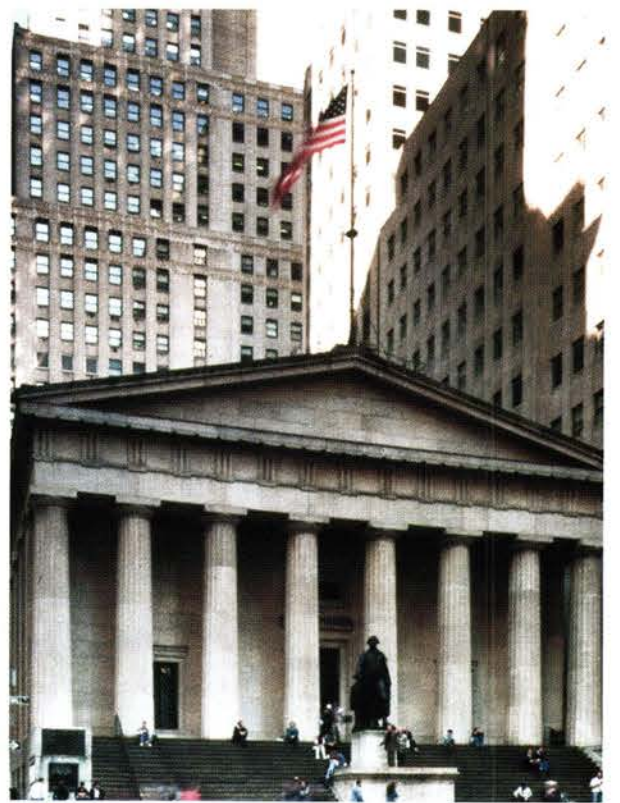
David Fixler, AIA, has more than 20 years of experience in architectural design, the bulk of which has been applied to restoration and renovation projects. Coming from an M.Arch and art history background, rather than a program focused primarily on preservation, Fixler believes that preservation work should be viewed as a design discipline. "There has traditionally been a sort of adversarial relationship between the preservation and architectural community," he says. "We try to maximize the design opportunities in our preservation work. A preservation approach should not limit design or technical innovation. We simply have to formulate the most appropriate response to every unique problem."

Iowa's Old State Capitol

One of Fixler's current projects is restoration of the University of Iowa's Old State Capitol following a devastating 2001 fire. It's called the Old Capitol because the capitol was ultimately moved from Iowa City to Des Moines. It then became the centerpiece of what has become the University of Iowa.

The Old Capitol was built in 1839-1840. The three-story Greek Revival structure is predominantly limestone bearing-wall construction. The 50-ft. cupola is a wooden superstructure with a gilded copper dome. EYP was retained in association with consulting architects OPN Architects, of Cedar Rapids, Iowa, after the superstructure was completely destroyed by fire — a fire caused by an asbestos removal contractor using an open flame to remove a heavy coating that had been applied to the exterior woodwork in the 1970s.

Fixler notes that in addition to posing technical complexities, the capitol is an emotionally charged building. "Everyone in the state has something to say about it. When we have a major meeting it's on the nightly news."



One of the most photographed facades in Lower Manhattan, Federal Hall is a Greek Temple form building wedged between Wall Street skyscrapers. The National Park Service, which oversees this National Monument, hired EYP to investigate and remedy structural problems as well as overhaul the mechanical systems. Federal Hall was designed by Ithiel Town and Alexander Jackson Davis in 1842 with obvious references to the Parthenon.

continued on page 8

T I M E L E S E L E G A N C E
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Private Residence: Connecticut

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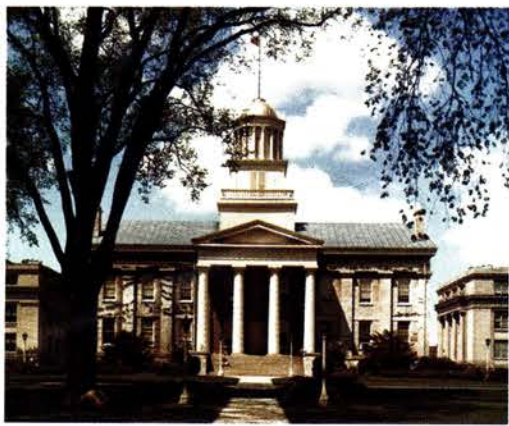


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N O T H I N G L O O K S B E T T E R I N O T H I N G L A S T S L O N G E R



Old State Capitol in Iowa City lost its cupola to fire in 2001. This view is a photomontage prepared by OPN Architects showing how a new cupola recreated from historical documentation will look once completed. Photo: University of Iowa/Old Capital Museum; Photomontage: OPN Architects



This view of Old State Capitol shows the first component of the rebuilt cupola being set in place.

This creates a design challenge: "We have to be careful about people's emotions and nostalgia; what they think the building should be versus what, based on historical research, it might actually have been." Fortunately, the building is well documented and EYP's plan to deliver as authentic a restoration as possible, even correcting some details that were misinterpreted during prior repairs in the 1920s and '70s, has been endorsed.

The team succeeded in finding a way to reconstruct the superstructure from locally grown oak, while meeting all current codes. "It's an economically and structurally sound solution. The functionality of the dome has been improved in small ways without sacrificing the authenticity," says Fixler. For example, EYP architect Matt Chalifoux, AIA, designed a shutter-like oculus incorporating a flag pole, thus eliminating the need to send someone out to stand on the top of the dome during construction, which was no longer considered acceptable from a safety standpoint.

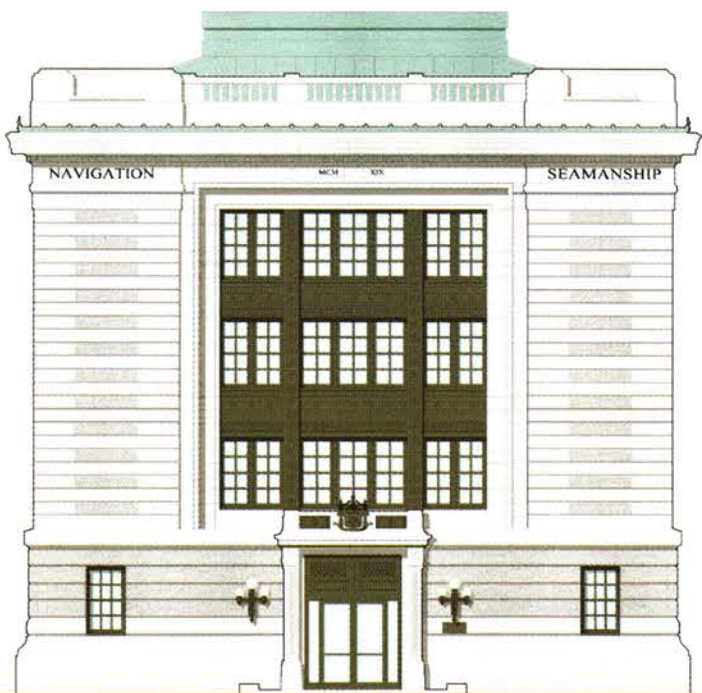
The 25-ft. (diameter) dome is being constructed in one piece, off site. The sheathing is layers of steamed, tongue-and-groove oak boards over which metalwork and gilding will be laid. Once the assembly is complete it will be trucked to the site and put in place by crane.

Fixler compares the University of Iowa fire to the 1895 fire at the University of Virginia — a situation where disaster created opportunity. The rotunda fire at the University of Virginia spurred the McKim, Mead and White campus expansion. The University of Iowa is doing something similar on a smaller scale. It is revitalizing the exhibits and public spaces housed in the Capitol and doing restoration throughout the historic spaces. A polychromatic paint scheme, based on original period research conducted by EYP, will replace the monochromatic scheme from the 1970s. Interior plaster, millwork, and wood floors will also be restored or replaced.

Inescapable Info Tech

The Iowa project exemplifies the EYP practice of providing the most targeted project team regardless of staff members' physical location. Fixler is coordinating the project in Boston, the structural work is being done in the New York office, and Chalifoux, in Washington, D.C., provides important details relating to his experience with sheet metal work.

Information technology (IT) is key to this mode of operation. At EYP it is also well integrated. A strong, innovative IT group gives EYP's project teams the flexibility to work efficiently across offices and across the nation. One of the factors that makes this reliance on ever-advancing technologies possible



The Naval Academy in Annapolis, Md., has been a good steward of its historic campus over the years and Luce Hall's exterior will remain virtually unchanged in the current rehabilitation. EYP's restoration plan for the exterior includes installing appropriate replacement windows that are energy efficient and visually similar to the originals, repairing the batten-seam copper roof, cleaning and repointing the exterior granite, and restoring details such as cast-iron trim and bronze doors. Historical image courtesy of United States Naval Academy Archives.

is an IT staff that understands the business — they come from design backgrounds. This, the principals agree, makes it easier for IT professionals to communicate with the staff and develop tools that really meet their needs.

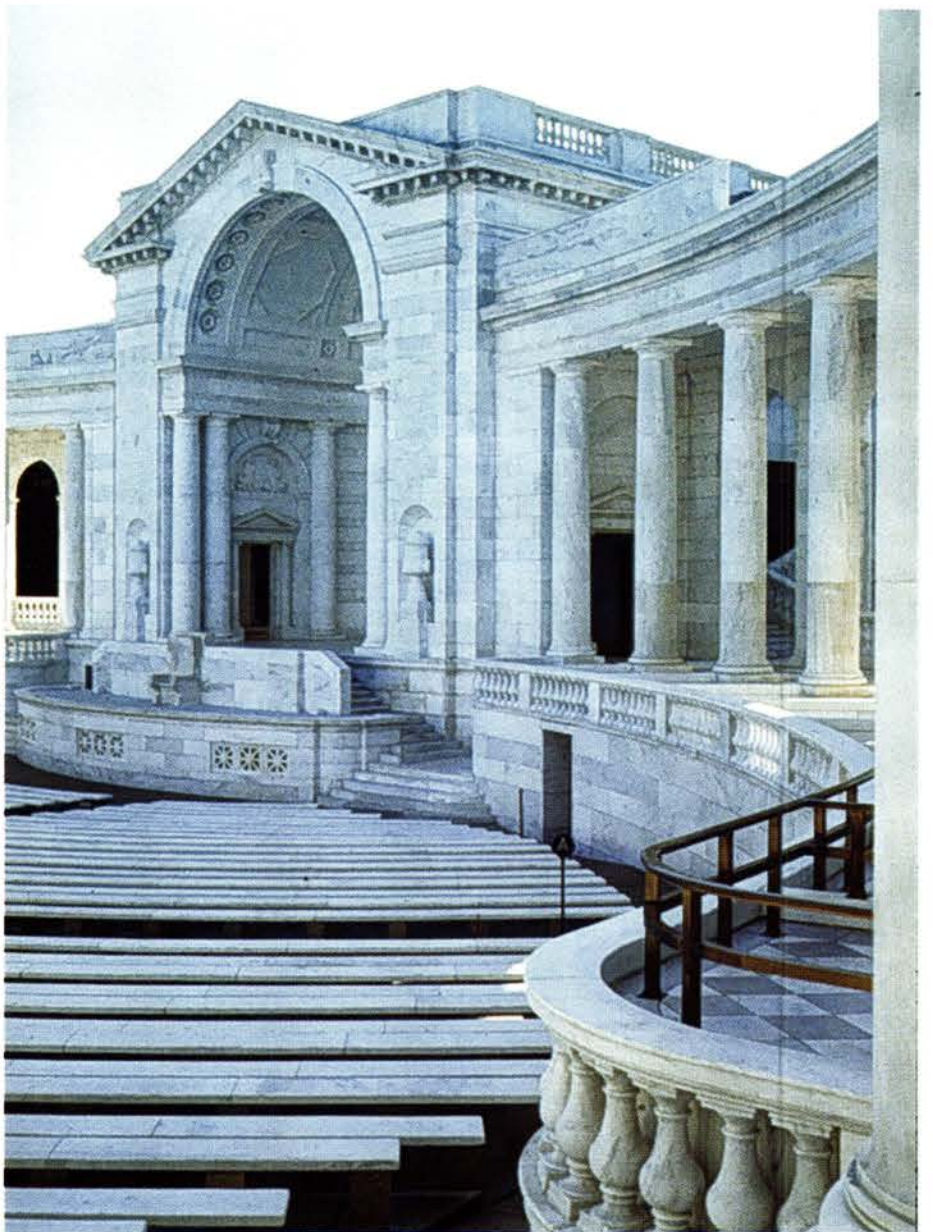
Integrating Design and Construction

Chalifoux holds degrees in architecture and historic preservation and has 20 years experience in the field. While his projects have ranged widely in type, almost all involved the sensitive insertion of modern systems and technologies into old buildings. Chalifoux can speak to an entirely different type of integration. His latest project, the rehabilitation of the U.S. Naval Academy's Luce Hall in Annapolis, Md., is a design/build project. This increasingly popular method of delivery, particularly for government and university projects, is fast, fixed price, and wholly dependent on coordination between not only architects and engineers, but also a prime contractor.

Naval Academy representatives prepared a detailed program document outlining everything that had to be delivered in the renovation. EYP's team of engineers, architects, and preservation specialists collaborated with Forrester Construction to submit a proposal that was ultimately chosen by the client. Luce Hall is a historic landmark, says Chalifoux, so "the contractor had to be comfortable with what we were anticipating having to do from a preservation standpoint. We had to be confident that the State Historic Preservation Office would sign off on the solutions proposed. We needed to be on the same side of the table; it's the only way the project was going to be successful."

Luce Hall needed to be brought into the 21st century of military training. Its primary tenant has always been the Department of Seamanship and Navigation. In 1920, the midshipmen needed the entire third floor open to practice signal flagging. Today, a Netcentric Operational and Warfighting Center will be the nucleus, along with technologically advanced teaching spaces and simulation rooms. Over the years, layers of renovations had created a jumble of less than fully functional spaces. With the exception of the historic stairwells, elevator, and planetarium, the EYP/Forrester project involves completely removing the old interior of the building, including mechanical systems. New technology going into the building creates its own complicated mechanical challenges, but it also throws significantly larger loads on the HVAC system. This, explains Chalifoux, is one of the biggest challenges of the project. "It's a balancing act between making the technology work for the client while at the same time recognizing that we can't go outside the footprint of the building."

Chalifoux notes that his role as preservation architect is to make sure the final solutions meet the preservation standards required of the project. More importantly, he says, he is there to help the team produce the best project it can, whether or not it is a preservation issue in question. "Luce Hall is a great example of how teams are put together and work together," he says.



There is no shortage of marble at Carrere and Hasting's Memorial Amphitheater (1915-1920) at Arlington National Cemetery. EYP was called in to develop a roofing and waterproofing system that would prevent further damage to the marble and a restoration plan for the extensive areas of stone that were deteriorated or discolored by calcite deposits, bacteria stains, copper verdigris, rust, and other destructive elements. Photo: Walter Smalling, Jr.

continued on page 10

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EYP's work for M.I.T. in Cambridge, Mass., includes a range of projects, from a replacement study of 3,000 windows to the restoration of this elegant lobby of Building 7, the main entrance to the Institute. The restoration included the cleaning and replacement of marble, limestone, cast stone, and various types of cement plaster; the restoration of a lost skylight and laylight; and the introduction of new technology into the space. *Photo: Edward Jacoby/Jacoby Photographers*

"There's a lot of respect between the design professionals and the contractor in regards to who is the right person to lead each component of the project."

Architects and Engineers Under One Dome

Mark Thaler, AIA, is currently principal in charge of one of the firm's larger projects, the rehabilitation of the Washington State Capitol in Olympia, Wash. His degrees in both architecture and building science from Rensselaer Polytechnic Institute, as well as 20 years in the field, bode well for a project that combines fine historic fabric with engineering inventiveness. EYP is responsible for \$45 million of the \$54 million overhaul, which is being coordinated by NBBJ Architects.



EYP has completed more than 100 projects for the U.S. Department of State, including the ambassador's residence in Buenos Aires, Argentina. These projects all involve careful integration of modern systems into fine examples of local historic architecture as well as the design of extremely sophisticated security systems. *Photo: Xavier A. Venstraeren*



EYP planned and executed the adaptive reuse of Montezuma Castle (1886), a 90,000-sq.-ft. hotel designed by Burnham and Root that had stood abandoned for 30 years. The building now provides dining facilities, residences, administration offices, and a ceremonial campus center for United World College of the American West in Montezuma, N.M. (EYP won a *Traditional Building* Palladio Award for this project. See the May/June 2002 issue.) *Photo: Chun Lai*

The goal of the project is to upgrade all systems including life safety, without reducing usable space or losing any more of the historic character than absolutely required. This is definitely a job for preservation architects and engineers on good terms.

The team started with life safety. Computer modeling of fire situations quantified the movement of both smoke and occupants and led to a plan to forego punching new fire stairs in the wings of the building, which had previously been considered, and instead create fire-rated glass and metal partitions to enclose the rotunda's open stairwells. As part of the new mechanical systems, sprinklers will be added to the building.

Thaler stresses that from the start the team had to be "totally involved with how the building is put together." It was able to take into account the fact that the massive, closely spaced columns around the perimeter of the building reduced the cooling load by half. It found ways to use most of the original shafts and mechanical rooms as well as replace the old under-floor electrical system with a fully modern one set in a concrete floor. In places, EYP's team was able to trench out non-structural terracotta tile form work used to pour the concrete slab floors, opening additional space for systems routing and maintaining historical ceiling heights.

"In all of this," says Thaler, "we are meticulously working with the building, as opposed to imposing systems on it. We can't just route things intuitively, from an engineering standpoint. We look at how things might run behind a door casing or wainscot, and at the cost associated with repairing each finish. Whenever we have to take off marble panels it is certainly more expensive and potentially more damaging than replacing a plaster finish." This approach paid off. EYP developed a plan that not only made the State Historic Preservation Office and the admiring occupants of the building smile, it also saved the state \$18 million over previous estimates.

Thaler simplifies the EYP method, probably too far to be fair, but it makes perfect sense. "It's really about understanding what the building has to offer and about finding the efficiencies." If you have architects, engineers, technologists, and preservationists working together on those questions, you are more likely to get the best answers. ■



The Washington State Capitol Legislative Building (Wilder & White, 1927) survived serious earthquakes in 1949, 1965, and 2001, but not without suffering damage. One of the last great domed capitols constructed in the States, the building is currently in the midst of a complete rehabilitation.

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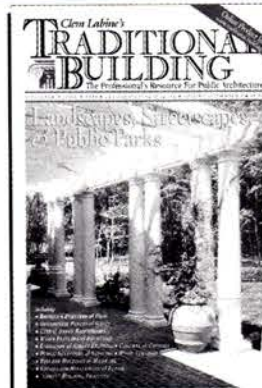
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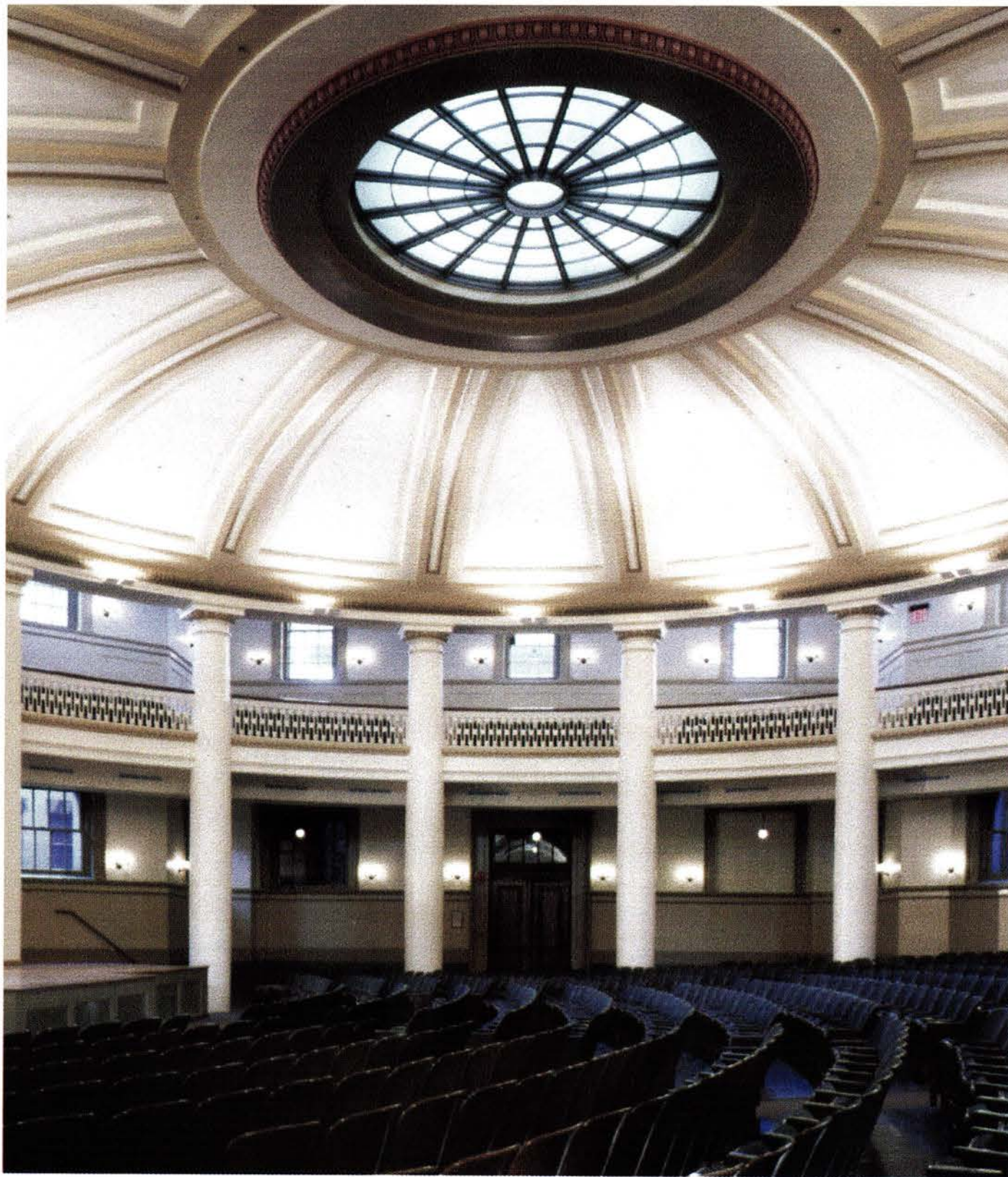
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STANFORD WHITE CHAPEL REINVENTED



The renovation of the Library Auditorium restored natural light to the room after 40 years by reopening the balcony, revealing the original windows that lined it.

PROJECT: RESTORATION OF GOULD MEMORIAL LIBRARY AUDITORIUM, BRONX COMMUNITY COLLEGE, BRONX, NY
ARCHITECT: PLATT BYARD DOVELL ARCHITECTS, NEW YORK, NY

Overlooking Manhattan's Washington Heights neighborhood and the Palisades cliffs of New Jersey, the Bronx Community College's Gould Memorial Library stands surrounded by Stanford White's 630-ft. open-air Colonnade of the Hall of Fame for Great Americans. The library's auditorium was recently returned to its former grandeur after fire and an ill-conceived renovation in the 1960s.

Restoration and renovation of the auditorium, once the chapel of White's 1900 Gould Memorial Library, was initiated by then-Bronx Borough President Fernando Ferrer. It was a 10-year effort by the Bronx Community College, the City University Construction Fund, and New York-based Platt Byard Dovell Architects. The central issue of the preservation was "how to get the building back into a form that's useful," says Paul Byard, a principal of Platt Byard Dovell. The architects wanted to recreate White's original vision of the room and update it to a contemporary venue for performers.

Originally built for New York University, the Classical-style chapel was designed by White with the Pantheon in mind. The round structure was placed below the Library Rotunda reading room in order for natural light to make its way there from the top of the Library's dome through a central glass-floored librarian's desk. "Natural light is terribly important to the char-

acter of the building as a piece of architecture," says Byard. "This is an extraordinary building built into the side of a hill. One can enter on the first floor and be well above the chapel. But the slope is such that on three sides you can have windows, so the room is lit with wonderful light and shadow. This completely transforms the three-dimensional character of the building. The most interesting detail of all is the degree to which the light comes from the top of the oculus, but we couldn't reestablish that."

The chapel was turned into an auditorium when the Bronx Community College was established in the 1950s. A fire set by a disaffected student in the 1960s caused great damage to the 650-seat auditorium. In addition to the harm done by the fire itself, firemen broke the focal Tiffany Veritas stained-glass window behind the stage. This was followed by renovations on the building that began in the late '60s. Of this construction, Byard comments that "[it] was a well-intentioned effort to modernize the building in response to the general dislike of the world at the time."

In the process of that renovation, the balcony was converted into storage and mechanical space. Concrete and a wall that cut off the tops of the building's columns blocked most of the windows as well. They were plastered in, sealing off the balcony with a long plaster skirt. Decorative rails, fixtures, column capitals, and other plasterwork were also stripped away.

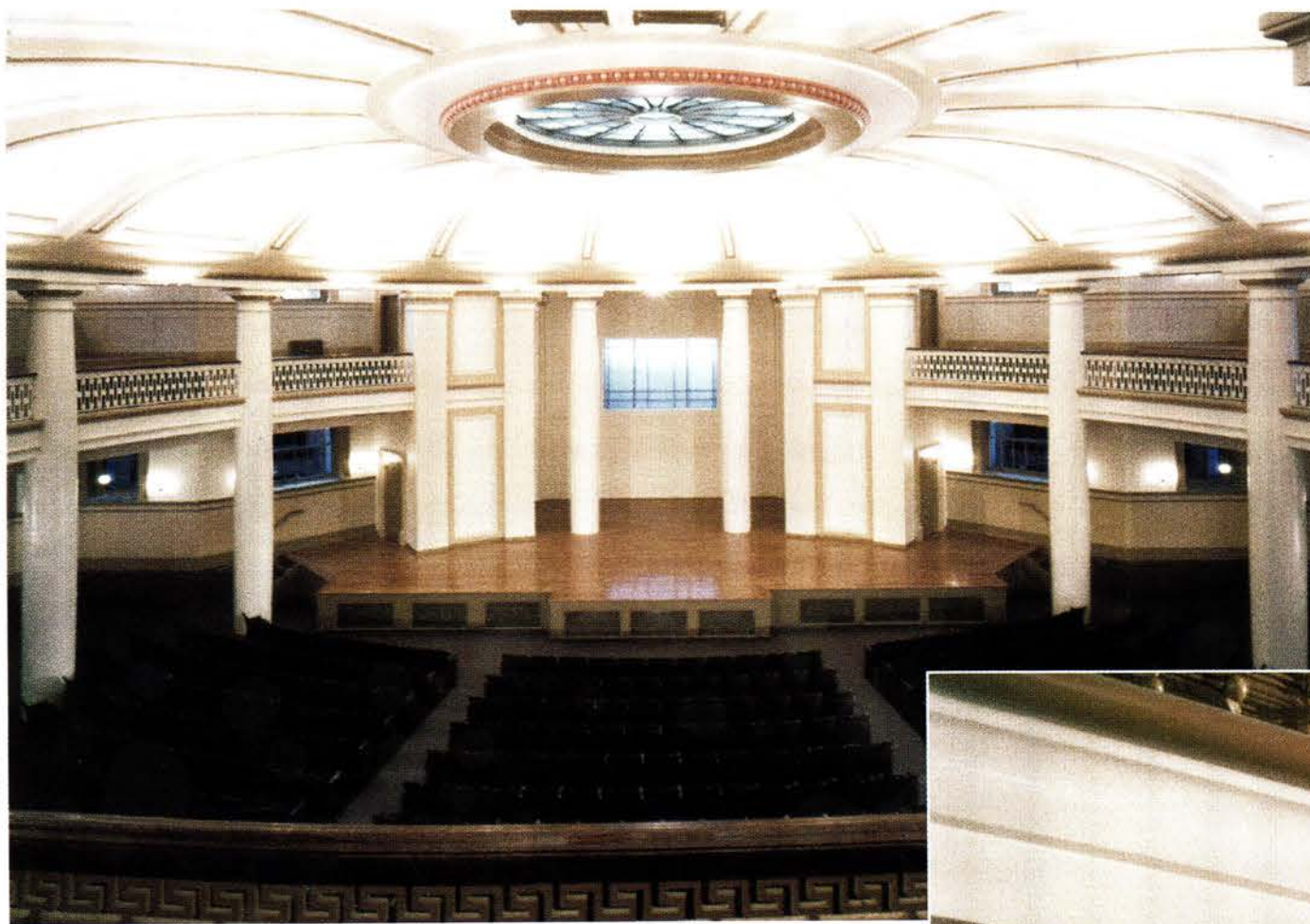
The current project began in 1997 and was completed in 2001. "We tried to find the appropriate restoration for that form," explains Byard. In addition to the restoration of key features such as the windows and wood doors, renovation was required. This included adding air conditioning to the auditorium via ductwork hidden in a new curved gypsum soffit that rings the balcony, providing cooling to the orchestra level through continuous diffusers.

In order to reopen the balcony, additional means of egress had to be added in accordance with modern building codes. "We wanted to reestablish the volume of the room by reopening the balcony, but we couldn't do that without adding exits and handicap access. So we did add them, in order to get the proportion of the room back and the ceiling back, with the same decorative system," says Byard.

Steel stairs were hidden behind the recreated side-stage walls, leading to new exit doors at the rear of the building. The doors were cut out of blind openings in the building's facade that face the Hall of Fame. Steel stairs cantilever over the semi-circular light shaft and land on the walkway. Since the building is an historic landmark, the New York City Landmarks Preservation Commission reviewed the design of the exterior stairs and modifications to the facade. After some back and forth, the design was approved.

New dome panels were created to match the configuration of the originals as seen in historic photographs. Glass reinforced gypsum (GRG) was used for these panels and to recreate missing column capitals and moldings. "GRG is cheap and easy," Byard explains. "As a matter of fact, we had to redo our first attempt, because the proportions were all wrong. It wasn't a big deal, because we didn't have to carve the capitals — you mold GRG rather than carve it." The dome is surmounted by a new steel and glass oculus replicated to match the original, but outfitted as a light fixture to suggest the natural light from above that is now blocked.

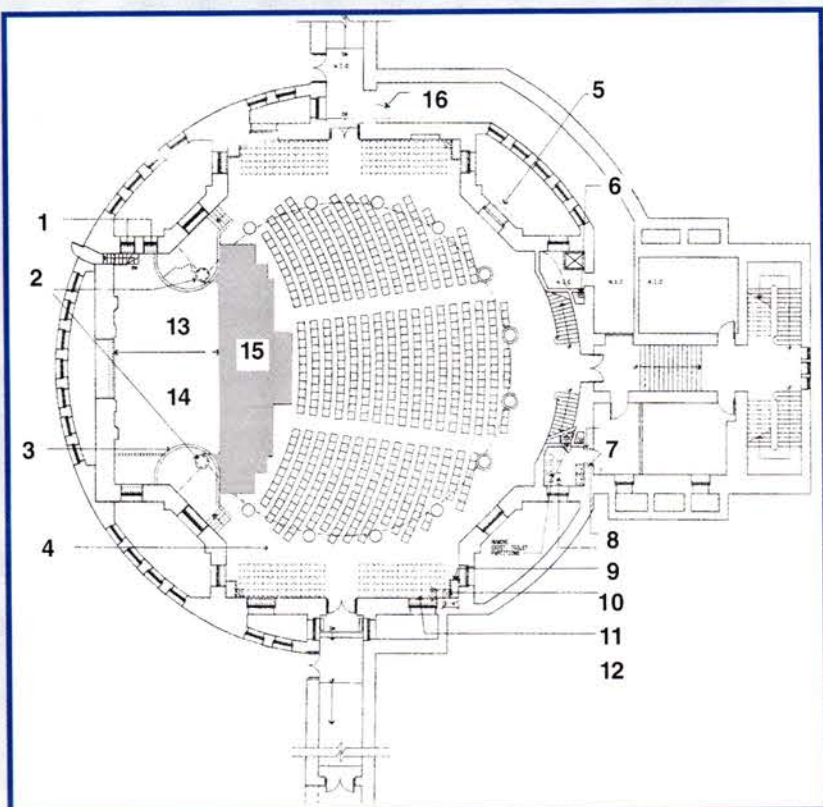
The building's fame meant that period photographs were plentiful. As a result, Platt Byard Dovell was able to successfully recreate many of the origi-



The Gould Memorial Library Auditorium, originally designed by Stanford White as a chapel for New York University, is restored to its former glory after a fire and poor renovation damaged it.



The reconstructed oculus that originally allowed natural light into the chapel is now outfitted with a light source and is surrounded by elegant moldings. Historical photographs provided guidelines for rebuilding column capitals and restoring balcony details.



The orchestra demolition plan for the Gould Memorial Library Auditorium involved removing structures while carefully leaving existing architectural elements intact.

1. Remove C.M.U. and plaster wall infill at windows (typ.). Protect existing windows and original plaster woodwork to remain (see window schedule).
2. Remove perimeter of existing column as required to allow wall construction- existing steel structure to remain.
3. Remove existing partition additions (typical). Remove existing carpet (typical).
4. Remove existing carpet.
5. Remove existing duct, grille and existing infill at window opening.
6. Portion of existing slab to be removed under hvac contract for duct penetration (typ. opposite hand).
7. Remove existing door.
9. Remove existing toilets under plumbing contract. Remove and salvage existing lavatories for reuse in new womens toilet.
10. Remove existing duct enclosure (typical). Protect original plaster work to remain.
11. Portion of existing slab to be removed under hvac contract for duct penetration (typ. 4 corners).
12. Remove and salvage existing seating at North and South sides (typ.). Coordinate with owner temporary storage of 72 seats to be reused at balcony and permanent storage of remaining seats.
13. Existing lecture platform and structure to remain.
14. Portion of existing slab to be removed under hvac contract for duct penetration (typ. 4 locations) below lecture platform.
15. Remove existing lecture platform and lightweight STL support G structure.
16. Existing single door in double door frame to remain.

nal decorations and architectural elements. The plaster surrounding the columns and the balcony was easy to get off, according to Byard, and what remained was a skeleton, which made it easy to remanufacture the column shafts, columns, and the detail of the capitals out of fiberglass.

Partitions added at the stage and balcony were removed and original side stage walls were recreated. The cast-iron balcony railings were replicated from pieces that were still left. A simple steel-and-glass window glazed with opaque glass was installed behind the stage at the location of the lost Tiffany window. "Nobody could afford to replace the Tiffany window," says Byard. "Instead, we reestablished the geometry of window, using opaque glass for light." Removing the partitions on the balcony revealed the windows, which were also restored. This allowed natural light into the auditorium for the first time in about 40 years.

Finally, dozens of paint colors and finishes, including glazes and stenciling at several locations, were used to recreate the original design of the polychrome paint scheme, discovered through extensive paint analysis. "There was enough paint left, particularly on the ceiling, to make it easy to recreate the original paint scheme," says Byard. The restoration used a simpler scheme of six colors, and Greek key stenciling at the dome panels. "It's not an exact reproduction, but it's an appropriate accommodation of what used to be there — it works right for the room and its character," says Byard.

The finished product brings together the elements of traditional style and up-to-date materials to form a replica that is mistakable for the original, yet relevant to its uses today. ■

— Marieke Cassia Gartner

RESTORED TRAIN DEPOT SERVES NORTHEAST CORRIDOR



Two 175-ft. towers flanking the entrance to the Worcester train depot had been removed in 1926, and the building was suffering from neglect, vandalism, and the elements, having been vacant for 25 years. (All photos: Steve Roventhal)

PROJECT: UNION STATION RESTORATION, WORCESTER, MA
ARCHITECT: FINEGOLD ALEXANDER + ASSOCIATES, BOSTON, MA
KEY DESIGN PROFESSIONALS: JAMES G. ALEXANDER, FAIA; SHERMAN MORSS, JR., AIA; RONALD R. ROBERGE, AIA; JEFF J. GARRIGA, AIA

Built in 1911 and listed on the National Register of Historic Places, Union Station in Worcester, Mass., was originally called “a poem in stone.” As times changed and trains took a back seat to cars and highways, the 90,000-sq.ft. Beaux Arts building was altered and then abandoned. It sat empty for 25 years, until the Worcester Development Authority decided to restore it in 1996.

The architecture firm of Finegold Alexander + Associates (FA+A) was brought in to renovate the station into a centerpiece for a contemporary intermodal transportation center incorporating commuter rail and bus service, travel support facilities, and a 500-car parking facility. The redevelopment also called for bus ports, offices, restaurants, shops, and pedestrian, roadway, and landscaping improvements.

The Union Station “poem” is now renewed as a transportation center that serves the Northeast. The \$33-million, three-year project has not only updated the facility, but it has also restored the beauty of the original interior and exterior.

“This was a building with trees growing out of the floor and on the roof,” says Design Principal James G. Alexander, FAIA. “Taking it through the restoration was one of the highlights of the work we have done in preservation.”

The building has three historically significant spaces: the vestibule, the Great Hall, and the rotunda. Having been vacant for 25 years, neglect, vandalism, and the elements had taken their toll on the building. In addition, accurate, original plans were not available.

“The community supplied a lot of historic photos to support the renovation,” says Alexander. “There were no drawings. We had to recreate everything from photos and from the fragments of the original plaster we found. We made molds to rebuild the original detail as much as possible and were also able to match finishes on other areas, such as the marble columns and wood doors.”

In addition to the renovations in the rotunda, FA+A added an elegant, curved contemporary staircase to provide access to a new second-level train platform. “The addition of the stairs was a great challenge,” Alexander states. “We worked hard to make it feel natural to the space even though it was a new staircase.” The new platform replaced a much smaller one that had tracks on both sides.

In the Great Hall, vandalism and exposure to the elements had practically destroyed the elliptical, vaulted stained-glass ceiling and the marble, terra-cotta, granite, and mahogany details. The architect worked with



Finegold Alexander + Associates used historic photos to recreate the two towers. They are built of steel with fiberglass cladding, rather than the original terra cotta.



After years of neglect and exposure to the elements, most of the detail in the Great Hall had either disappeared or had been destroyed when the restoration began in 1996.



The Great Hall has now been restored to its original condition, with its elliptical stained-glass ceiling, and marble, terra-cotta, granite, and mahogany details.

conservators and the client to develop traditional and contemporary detailing for the restoration of the interior. DePaoli Mosaic Co. of Boston, Mass., supplied the terrazzo for the new flooring throughout the building, and Serpentino Stained Glass of Needham, Mass., recreated the stained-glass windows for the Great Hall. Other historical replacement windows were supplied by EFCO Corp. of Monett, Mo.

Nonhistorical spaces on the periphery of the Great Hall and rotunda were designed for various uses, such as offices, shops, and restaurants. New infrastructure services these areas as well as the rest of the building. The first major restaurant in this area is scheduled to open this spring.

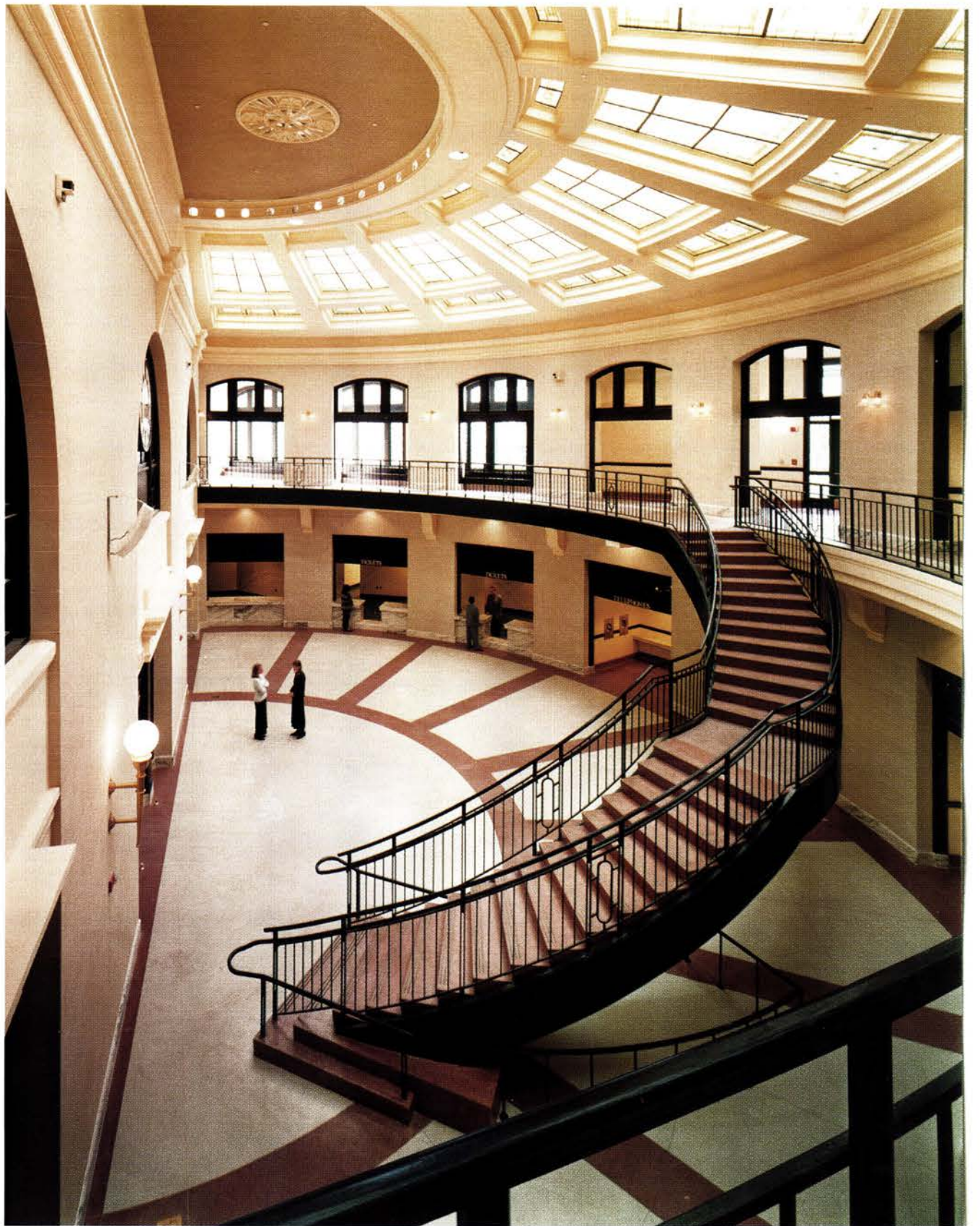
On the exterior, three elegant arches flanked by huge Ionic columns greet visitors arriving at the station. The main entrance is also characterized by two 175-ft. towers that had been removed in 1926, probably due to structural weakness. Originally clad in terra cotta, like the rest of the exterior of the building, these were rebuilt using lightweight structural steel and fiberglass. "It would have cost a lot more, about \$5 million, to recreate the towers using terra cotta," says Alexander. "Using the steel armature and the fiberglass panels, we were able to build them for less than \$2 million."

For the new towers, the architects kept the pediments that had been added when the original towers were taken down. "We left those, because we felt they worked quite well with the building and were part of the history of the building," Alexander states. "So the base has been changed somewhat. Other than that, the height and the original character of the towers are the same."

FA+A had the terra-cotta finish on the exterior of the rest of the building replaced and repaired. This work was done by NER Construction Management of Wilmington, Mass. "We weren't trying to make it look like it was just built," says Alexander. "We left some of the imperfections in place and repaired them as needed."

FA+A also made a slight change to the entrance to accommodate accessibility. The architects eliminated the original three granite steps leading into the building by raising the entrance driveway, providing accessibility. "It's a subtle change to the historic, entrance," says Alexander. Another part of the entrance, the steel and glass canopy which had been removed, was rebuilt to its original structure, using historic photos.

Worcester's Union Station has now been converted into a contemporary transportation center, revitalizing commuter train and bus transportation in the Worcester-Boston corridor. At the same time, the beauty of an almost-100-year-old historic building has been restored.

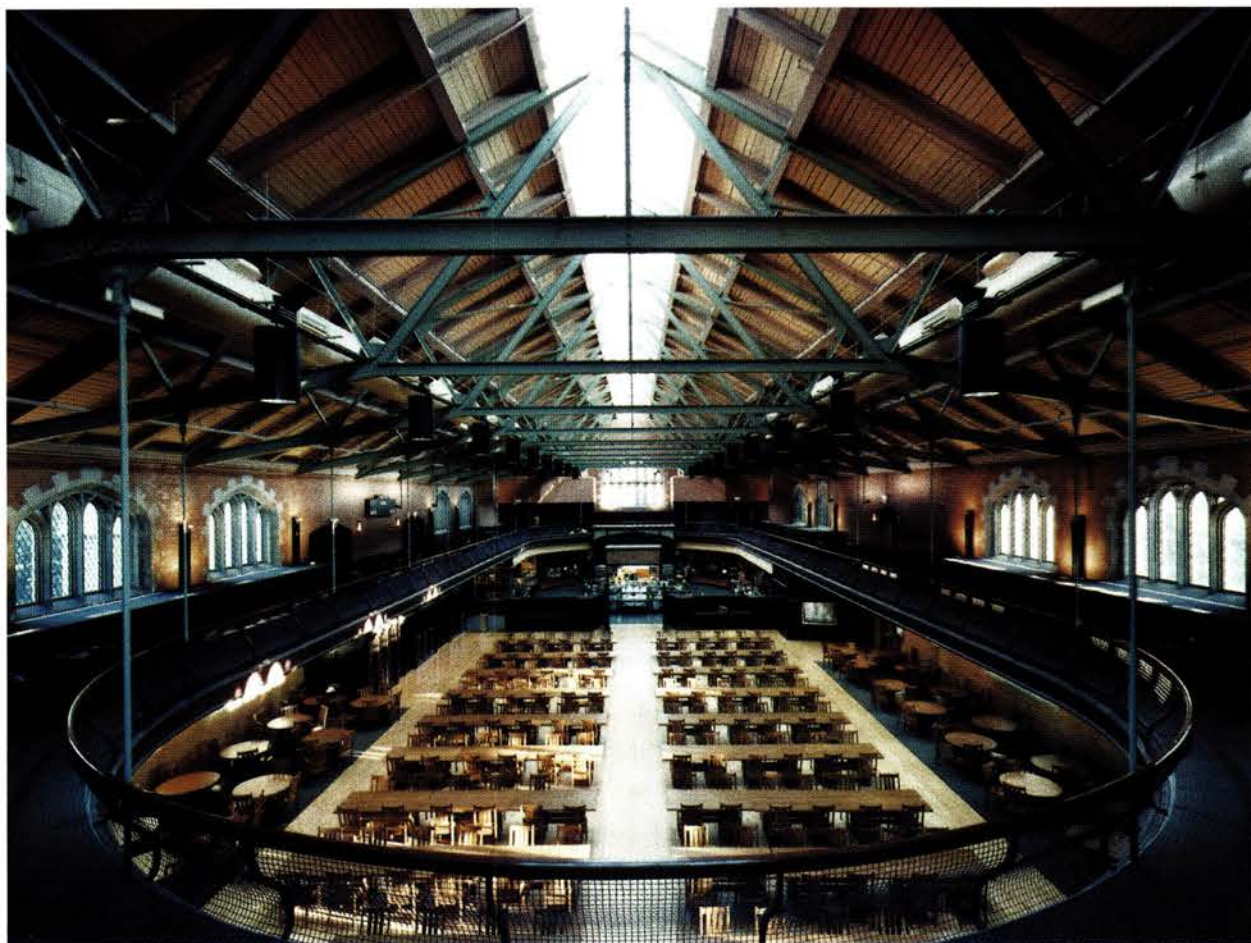


Designed to complement the existing structure, the new curved staircase in the rotunda provides access to the new second-story train platform.

Approximately 5,000 people came to tour the new station when it reopened in 1999. They traveled from across the country to witness the rebirth of an historic building that had played an important part in their personal histories. In addition, it is anticipated that the transportation center will serve as an engine for economic development in the area. ■

— Martha McDonald

UNIVERSITY OF CHICAGO SAVES 100-YEAR-OLD GYM



The completed, 550-seat dining area in the new Bartlett Hall is spacious and is illuminated with natural light.

PROJECT: RENOVATION AND ADAPTIVE REUSE OF BARTLETT HALL,
UNIVERSITY OF CHICAGO, CHICAGO, IL
ARCHITECT: BRUNER/COTT & ASSOCIATES, CAMBRIDGE, MA

In 1900, Adolphus Clay Bartlett gave \$125,000 to the University of Chicago to build a gymnasium in memory of his son, Frank Dickinson Bartlett, who died at the age of 20. When A.C. Bartlett became a trustee of the school, he gave \$25,000 more that, along with a \$60,000 donation from John Rockefeller, enabled the job to be completed. The University built the three-story Bartlett Gymnasium as a training venue for the U.S. men's Olympic team, and the building served as a sports center until the recent construction of the Gerald Ratner Athletics Center.

The University decided to adapt the 64,300-sq.ft. Bartlett Gymnasium for a new use and perform a restoration of its existing historical elements. In fall 2002, the architectural firm Bruner/Cott & Associates of Cambridge, Mass., completed the \$13.5 million transformation of the building into a 550-seat dining hall, multi-purpose event space, and 6,000-sq.ft. student lounge.

Boston-based Shepley, Rutan and Coolidge designed Bartlett Gymnasium in a Neo Gothic style. The Indiana limestone building featured a highly detailed veneer; leaded-glass steel-frame windows; a cast-iron, oak, and slate stairway; and a two-story stained-glass window designed by Edward C. Sperry (an associate of Louis Comfort Tiffany). The scope of the recent project included restoration work on all of these features as well as the design and construction of a 2,260-sq.ft. addition.

The challenge for Bruner/Cott was to introduce entirely new uses into the building, concealing the infrastructure that 21st-century codes require within the historic structure. The plan included a modern food service operation: dining rooms, an exhibition cooking area, production kitchen, and storage areas, together with 10,000 sq.ft. of new student activity areas for events, performances, offices, and informal lounge spaces.

In terms of safety, changes had to be made to the surrounding streets, because the renovation was intended to intensify student activity. High quality paving materials were used to bridge 57th Street between Ellis and University Avenues and to emphasize the pedestrian crossings, which had to be made narrower. Landscape materials, furnishings, and other elements were used to create a consistent, classic street character, while restoring existing trees, lawns, walks, and shrubs.

One of the modern codes that had to be met was that of the fire department. The original building had only one interior stairway serving the entire building. Two interior exit stairs had to be added to replace the obtrusive, dangerous exterior ones added after the original construction. In order to keep the inner stairway, which would have had to be replaced with three staircases to be up to code, Bruner/Cott had to enclose it on all floors. "We went through extraordinary measures to keep the openness of the original design intact, since that was one of the most important features," project

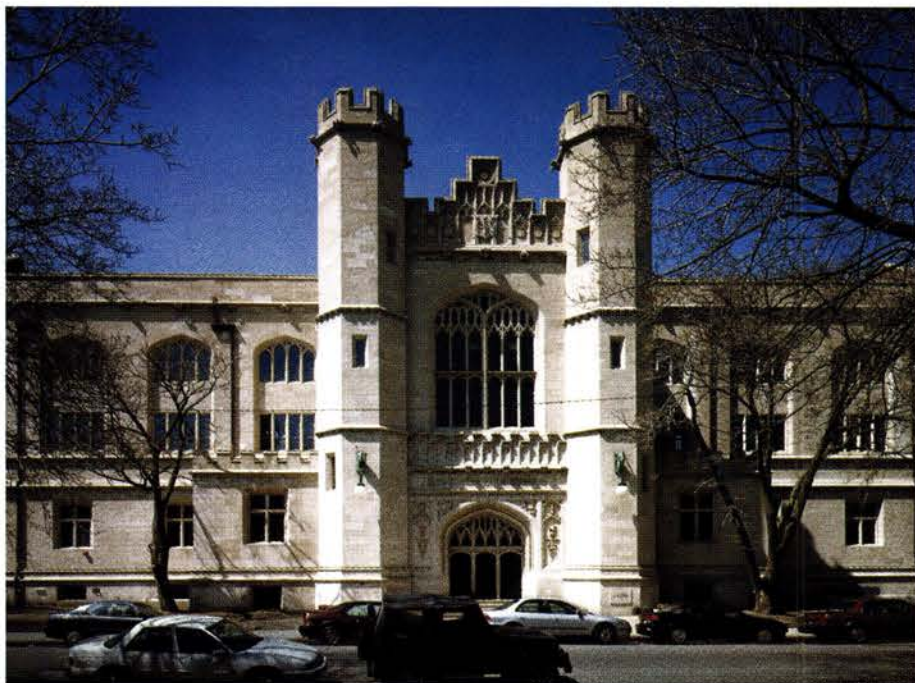
architect Robert Simmons, AIA, says. The first floor wasn't a problem, he explains, because the firm just added three to four sets of fire doors, which didn't affect the wood paneling. It was the second floor, where the original gym had been and where the dining hall would be that created a challenge. To solve the problem, Bruner/Cott created a 25-ft. glass separation wall, mimicking an existing wooden screen wall, separating the gym from the stair hall. The glass was very expensive, about \$270 per sq.ft., but the architects felt that it was important enough to the design to use it. The glass, along with a two-hour rated glazing material, maintains openness to the dining hall and allows views back into the stained-glass stair hall. The wall was covered in fire-resistant treated white oak to match the intricately paneled staircase walls.

All the main entries to the building, as in many Turn of the Century buildings, had level changes within the ground-floor lobbies and on the exterior, which made adding accessibility, required by the Americans with Disabilities Act, difficult. The west entrance was modified for this purpose. Bruner/Cott relocated the exterior stair outboard of the facade 10 ft. out and inserted a curved-ramp walkway without disrupting a row of mature trees that complement the building and became part of the new green quadrangle located there. Due to the low slope of the ramp, handrails, viewed as obtrusive to the design, were not needed. Instead, seat walls on each side of the pathway were added.

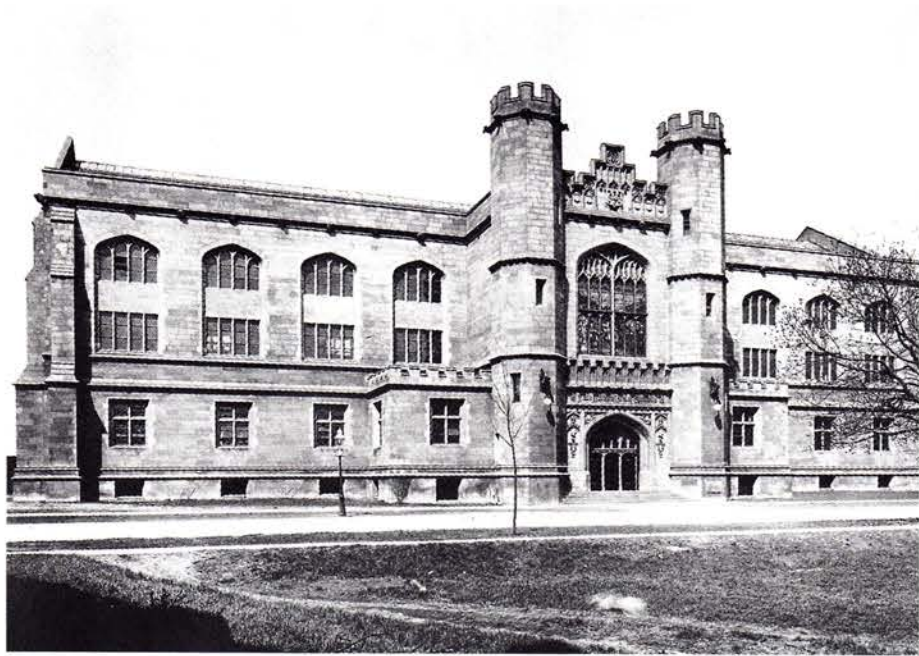
New student dining facilities in the renovated Bartlett Hall opened for the winter quarter of 2002 after two years of construction. Bartlett's second-floor gymnasium has been transformed into the dining facility. "We kept the gym almost as is," says Simmons. "The biggest change was from the blue glass in the large skylight to clear glass, allowing more light, and the replacement of the original gym's bare bulbs." The original riveted steel trusses of the gymnasium, a major architectural feature, were exposed and highlighted with paint.

The original steel- and wood-framed running track, scheduled for demolition (because it had previously been deemed structurally inadequate), has been retooled as a mezzanine-level student lounge. "The running track was an important part of the space, elegantly detailed with a curved mesh balustrade and oak rail," says Simmons. "It survived for 100 years basically unscathed." Bruner/Cott reduced the effective usable area of the track and fitted it with waist-high millwork, housing HVAC duct runs that reduce the live load. Kitchens have been installed on the ground floor and elevators have been blended into the back wall of the central exhibition cooking station and hidden behind the grill top and exhaust hood.

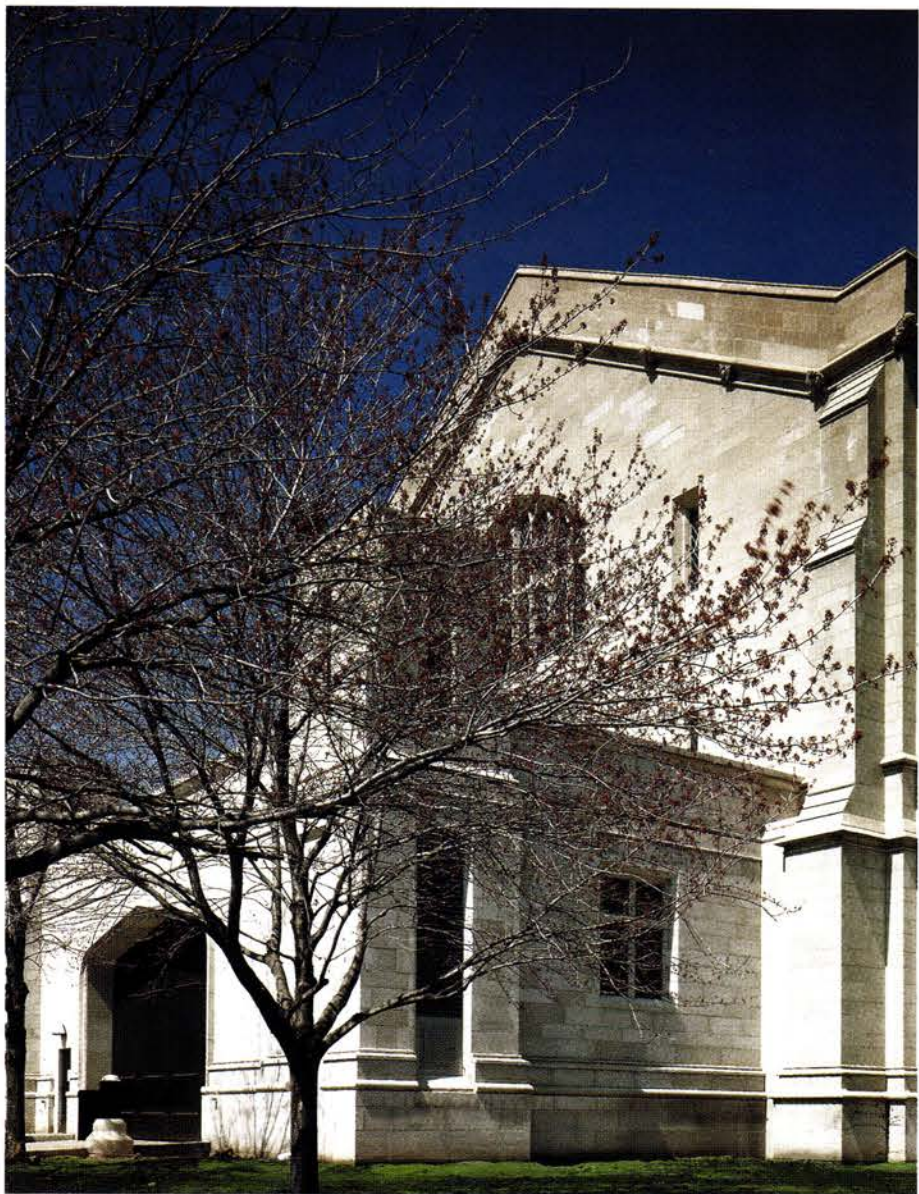
The restoration plan included adding a major food service function, so a large two-bay loading dock had to be added at the south end. The sympathetic



After the \$13.5 million transformation from a gymnasium into a dining hall and multi-purpose event space, Bartlett Hall is ready to serve the university of Chicago for another 100 years.



Bartlett Gymnasium, circa 1901, was a training venue for the U.S. men's Olympic team.



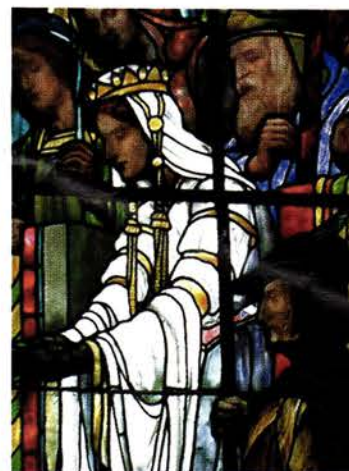
A sympathetic addition to the gymnasium was created to accommodate the two-bay loading dock needed for the dining hall.

addition that resulted was made from tooled Bedford limestone cladding, to match the University palette. The Gothic bi-folding steel loading doors, clad in stained oak with bronze studs, fold up to protect the wood cladding from damage. "The doors open within three seconds," Simmons says. These features recall the entry gates of the Alonzo Stagg Field walls that once stood adjacent to the site. The dock itself was built to accommodate full-size semi-trailers so that they would not protrude onto the street, and the receiving areas were set back to hide them from view. The addition was designed to accommodate a future roof terrace off the dining space, Simmons adds, but that's a future project because of the expense.

Preservation work was needed on the three-story-tall original stairway, which was lighted by the Sperry stained-glass window. The stairway was detailed with delicate cast-iron balustrades, oak rails, and ribbon-slate treads. Original features, such as early 20th-century electric light fixtures, were restored and relamped with carbon-filament, Edison-period units. The lobby in which the stairway opened had a mural by Frederic Clay Bartlett in memory of his brother, which only required light cleaning. The lobby itself was generally intact.

The window, which depicts Rowena crowning Ivanhoe, had to be removed for restoration. Hand-rubbings of each panel were made; 3,000 photographs were taken; detail drawings were created, and museum-level crating and shipping using shock, temperature, and humidity gauges were employed in order to restore it. The window presently sits in a museum until the University can afford to have it put back in. Bruner/Cott replaced it with a temporary clear leaded glass piece with light detailing as a place holder. "We didn't want to put in anything too fancy, like faux stained glass, so that people would know it was only temporary," Simmons says.

The other windows in the building had to be replicated, because the original diamond leaded-glass windows were all but destroyed in the 1960s



The restored stained-glass window that adorns the stairway shows Rowena crowning Ivanhoe.



The former running track from Bartlett Gymnasium now serves as a mezzanine lounge.



The early-20th-century electric light fixtures on the stair were restored and relamped with carbon-filament, Edison-period units.

from the activity in the gym. Glass block infill had been put in to solve the problem, but that kept out a lot of light. "Because the glass block infill was installed incorrectly, the surrounding stone was starting to crush it with expansion and retraction, so it was shattered around the edges," Simmons explains. Bruner/Cott studied original drawings and used remaining fragments to reproduce the diamond patterning of the original design in a thin-profile aluminum-framed window unit. Lead coming was applied by epoxy to both faces of insulated low-E glass units to produce low-maintenance, thermally efficient windows that retain the character of the originals. "It's one sheet of glass, not 1,000, so the refraction isn't exact, but it has essentially the same physical look," says Simmons.

Bartlett Hall's detailed Gothic limestone veneer also needed restoration and conservation. "Bartlett Hall looks like a Gothic cathedral from the outside," says Simmons. "It's very ornate, with a lot of castellation and rusticated detail around the windows, with fine tooling that was done by hand." When repairing the stone, all this had to be taken into account and replicated. To keep the correct look and feel of the original, much of the replacement stone was taken from areas of the building that would be covered by the new addition. The rest was selected from the original quarries to match the existing stone. The limestone was cleaned of carbon staining and ivy growth was removed. The original detail and aging patina was kept by careful cleaning.

"We did a full building survey from a cherry picker," Simmons explains. "We documented where problems were occurring, and created drawings to get a sense of where the spalling was the worst." Patterns emerged from the drawings in terms of the worst spalling, which, Simmons says, was generally below the roof, along the edges of the parapets, and where water had traveled down and settled. The problems were mainly due to the original steel strap hangers, which caused spalling due to oxidization and expansion. To avoid similar problems in the future, stainless-steel anchors replaced the iron straps. Repointing of all masonry joints was completed using specialty mortars, and new copper downspouts and flashings were installed. The parapets were rebuilt as well.

Sustainable practices on the project included the use of daylight through a reglazed, energy-efficient, full-length skylight; the comprehensive salvage program of limestone from the original structure; and the wooden gymnasium floor, iron and oak doors, and period artifacts that were saved and reused.

Citing the exacting work done on Bartlett Hall, the Boston Society of Architects awarded it the 2002 Honor Award Citation and *Midwest Construction* magazine named it Renovation Project of the Year for 2002. "They changed the function and still maintained the look and feel of the original structure, and added a loading dock and made it look contextual," said the *Midwest Construction* magazine jury. ■

—Marieke Cassia Gartner



THE CALAMINE TREATMENT FOR TROUBLED WINDOWS

Roles evolve for windows clad in sheet metal.

by John M. Corbett, *RestorationTrades.com*

Wood windows clad in sheet metal, so called calamine (a.k.a. Kalamein, see box) windows, were historically intended as a defense against fire, but in this era of depleted woodlands and degraded lumber quality, this technique may continue to prove useful for the protection it provides against the damage done by time.

A well-made custom sheet-metal window is a more durable exterior element than any built with second-growth lumber, whatever its species. They are not cheap, however, so they will not be flooding the replacement-window market. To find out where these windows are proving useful or necessary, I asked Cameron Forbes of Heather & Little, Ltd., in Toronto, Ont., to provide some insight. Heather & Little has built hundreds of these window for historic projects, mostly reproductions for important public buildings from the first part of the last century.

These fire-resistant windows were distributed widely among buildings both splendid and utilitarian with certain design benefits. In public buildings, they benefited designers by enabling them to incorporate windows into trim schemes of the same material, thus making them an indispensable part of the design as well as of the historic fabric. For the renovation of the 1924 Investment Building in Washington, D.C., Heather & Little furnished numerous missing elements necessary to complete the facade restoration, including more than 70 copper-clad calamine windows, fixed and casement. This Beaux Arts limestone structure featured deeply sculpted copper cornice detail and elaborately molded window surrounds. The windows and their surrounds appear as a unified design entity.

Similarly, the firm reproduced a 15x35-ft.-tall window for the 1914 Harris Theater on 42nd Street in New York City to replace an original destroyed by a misdirected demolition crew. This massive window dominated the narrow, sculpted brick facade and was an integral part of an elaborate copper trim scheme. Heather & Little worked from a dumpster full of debris and reused 70% of the original wood core as an armature.

The price of custom calamine windows will deter their use in many applications, but another historic Heather & Little project suggests a way to mitigate the cost. In 1991, the firm produced 80 double-hung windows in 26-gauge zinc-coated steel for a post office in Collingwood, Ont. These were replacements for existing windows that had been originally produced without wood cores, since the weight of the glass itself did not require additional support. Much of the rigidity of these windows derives from the cumulative strength of the assembled tubular sheet metal and the fixing of the glass. Coreless windows can be made energy efficient by filling the cavity with foam and by installing a thermal break in the design.

By omitting the wood core, the cost of the millwork plus the labor of working the sheet metal around it is saved. Custom sheet-metal windows will never be cheap, but they offer a combination of looks, durability, and low maintenance that addresses specialized building issues, particularly for historical buildings.

Other recent projects suggest new replacement applications for this technique beyond reproduction. For the fire-damaged cupola of the 1880 Harbour Commission building in Montreal, Heather & Little furnished replacements in 20-oz. copper for moldings and trim. Four round windows, 7 ft. in diameter, were also replaced. Curved wood moldings of this size in exterior applications can be unstable unless fabricated from the most carefully selected grade of lumber available. While not historical, such a substitution can serve the building by reducing failures and maintenance. There are many exterior features that are no longer viable in wood in today's environment of uncertain lumber quality and aversion to maintenance. Red copper accepts finishes as reliably as wood, if properly prepared, and, like the original Kalamein windows, they are fire resistant.



These samples show sheet metal installed over a range of wood profiles. While expensive, the process of drawing out these moldings does not require major up-front expenditures and is feasible for custom short runs. They are smooth finished and without brake creases.



The full effect of this Toronto storefront is made possible by the artisan's ability to express every detail in 20-oz. red copper, including the window sash.

With only anecdotal information, it is difficult to know the replacement-cycle cost figures for calamine windows. The fate of 345 deteriorated historical double-hung calamine windows in the 1917 wing of the Massachusetts State House in Boston shows why. This building is part of an historic complex dating back to 1790 and it seemed at first that, as part of the original historical fabric, these windows were destined to be restored. Instead, they were replaced with mahogany at about, Forbes estimates, one quarter of the cost.

The price was one reason the windows were replaced, not restored: The history they contained couldn't justify the cost differential. The other problem was the past performance of the windows. At 80 years old, the windows' performance didn't seem much better than that of a good wood window. It was decided that restoration wasn't a wise use of the Commonwealth's money, in light of the windows' performance to date.

The window contractor for the entire project, Richard Muckle of Muckle & Associates of Lawrence, Mass., had the opportunity to deconstruct the windows and to analyze their failure. The cores were constructed of some

THE MEANING OF THE WORD

A century ago, wood windows were first clad in zinc-plated steel, with the object of making them fire resistant, and marketed under the trade name Kalamein. This name derives from the mineral calamine, which furnishes the ore from which zinc, the eighth metal known to humans, is produced. The reason it took humankind so long to get to zinc (India, c.1200 C.E.), is that it evaporates when smelted, instead of melting. For millennia before being discovered, however, calamine in its natural state was used in the production of brass and calamine lotion. While the trade name Kalamein seems no longer to be licensed, these terms persist with reference to the general practice of cladding architectural elements in sheet metal of any composition.

very casually joined American chestnut requiring extensive restoration. He observed that most of the sheet-metal joints were coped and then simply butted and filled with solder, offering little resistance to thermal movement or to the shocks and stresses of operation.

The original artisans can't explain these choices, unfortunately, but the architectural materials consultant for the project, William Finch of Finch & Rose in Beverly, Mass., emphasizes that historically, metal-clad windows were not specified as a strategy for extending the life of an installation, but rather to reduce the amount of readily combustible material in building interiors (see box), a minimum goal that they achieved.

While these butted joints may conceivably have contributed to a flatter, cleaner look, Forbes notes that such a joint is not nearly as durable as the lapped and sweated joints Heather & Little installs today. They have benefited from the gift of hindsight and of today's standards for low maintenance and extended replacement cycles. The degradation of wood quality means that the bar for beating the performance of wood has been drastically lowered. ■

John Corbett is Publisher of The Restoration Trades Exchange, a Web-based network of the leading artisans and contractors in the traditional crafts fields (www.restorationtrades.com). John is a former steeplejack and rigger, but now spends most of his time cataloging and chronicling the exploits of fellow tradespeople. John contributes "Building Arts Notebook" to every issue of Traditional Building; he can be reached at john@restorationtrades.com or at (888) 852-8202.



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Dow Woodcarving 207-363-7924; Fax: Same as phone www.archcarving.com York, ME 03909	Custom woodcarver: architectural, ornamental, furniture & nautical carving; molding & signage; woodturnings; model making; antique carving restoration; any style or wood species.	Free Write in No. 3220
E.R. Butler & Co. 212-925-3565; Fax: 212-925-3305 www.erbutler.com New York, NY 10012	Custom manufacturer, importer & distributor of door & furniture hardware: brass, bronze, nickel/silver, aluminum, stainless-steel & wrought-iron; hardware repair & custom finishes.	Free Write in No. 2260
Easy Leaf Products 800-569-5323; Fax: 877-386-1489 www.easyleaf.com Los Angeles, CA 90038	Supplier of gold-leaf products: genuine gold-leaf, composition metal-leaf & gilding-related supplies & accessories; in stock for immediate delivery.	Free Write in No. 1980
Elderhorst Bells, Inc. 800-810-7892; Fax: 215-679-3692 www.elderhorstbells.com Palm, PA 18070	Manufacturer & custom fabricator of cast-bronze bells: mini carillons, chimes, moving-figure displays & bell-tower equipment; tower & street clock & carillon systems furnished & installed.	Free Write in No. 2100
Emma Willard School 518-833-1799; Fax: 518-833-1820 285 Pawling Ave. Troy, NY 12180	Preparatory school: special workshops in window restoration.	Free Write in No. 1188



Revolution:

Moisture, mold
and mildew resistant
DensGlass Gold®
on the outside.

The new interior panels that protect against moisture problems like never before.

For years, DensGlass Gold® exterior sheathing has been proven tough in commercial construction — under the *most challenging* of elements. Now the same powerful protection is working on the inside — all with the next-generation DensArmor™ interior guard panels. A revolutionary departure from traditional wallboard, DensArmor delivers superior performance in resisting mold and mildew* — and represents part of a total solution in minimizing the effects of moisture. DensArmor features a glass mat on one side and a heavy paper surface on the other.

WRITE IN NO. 7153

Evolution:

Moisture, mold and
mildew resistant

DensArmor™

Interior Guard Panels
on the inside.

GP Gypsum 
a Georgia-Pacific company



DensArmor Plus™ features a glass mat surface on *two* sides for the ultimate in interior protection.
And, at G-P, we think that's a healthy change that will be appreciated for generations to come.



 **DENSGUARD**



DENSARMOR
Interior Guard

 **DENSGUARD**



DENSARMOR PLUS
Interior Guard



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G-P TECHNICAL HOTLINE: 1-800-225-6119

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*When tested in accordance with ASTM D 3273.





TRADITIONAL BUILDING *SourceList* HISTORICAL PRODUCTS SHOWCASE

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COMPANY	SPECIALTY	Literature
Envirospec, Inc. 716-689-8548; Fax: 716-689-7309 www.envirospecinc.com Buffalo, NY 14205	Manufacturer of Pave-el pedestal system: four-squared honeycomb structure of high-density polyethylene; designed to elevate, level & uniformly space paver stones installed on roofs; permits proper drainage.	Free Write in No. 3137
EverGreene Painting Studios, Inc. 212-244-2800; Fax: 212-244-6204 www.evergreene.com New York, NY 10001	Custom fabricator of decorative arts: murals, mosaics, architectural sculpture; plaster, gilding & decorative painting; marble, metal & wood; consultation, conservation, restoration & new design; religious/institutional projects.	Free Write in No. 2460 for Decorative Painting; 2678 for Plasterwork
FAAC International, Inc. 800-221-8278; Fax: 970-223-2588 www.faacusa.com Cheyenne, WY 82007	Manufacturer of gate operators: swing-, slide- & barrier-gate systems.	Free Write in No. 531
Flag Factory 800-868-7111; Fax: 704-289-6857 www.flagfactory.com Monroe, NC 28110	Manufacturer & supplier of flags, banners & poles: American, school, foreign, corporate, festival, Main Street & streetscape; attention-getting colors, durable for many seasons & economical; manufacturer for 92 years.	Free Write in No. 479
Forshaw of St. Louis, Inc. 800-367-7429; Fax: 800-845-2689 www.forshawmantels.com St. Louis, MO 63044	Manufacturer of hand-crafted mantels: pine, oak, poplar, cherry & other solid hardwoods; custom- & ground-shipped; unfinished & ready for paint or stain; precast mantels in 33-, 36-, 42- & 43-in. openings.	Free Write in No. 8174
Frank Morrow Co. 800-556-7688; Fax: 401-941-3810 www.frankmorrow.com Providence, RI 02905	Manufacturer of ornamental-metalwork components: decorative stampings; leaves, flowers, husks, bobeches & more; wrought iron/steel, brass, copper & cast iron; many items available in heavy 16 gauge.	Free Write in No. 1220
Freeman Mfg. & Supply Co. 800-321-8511; Fax: 440-934-7200 www.freemansupply.com Avon, OH 44011	Supplier of moldmaking products & casting compounds: epoxy, gypsum, polymer-modified gypsum, plaster, polyurethane & silicones; 8 stocking locations in the U.S.	Free Write in No. 339
Gilders' Studio, Inc., The 800-937-GILD; Fax: 301-774-5037 www.gilders.com Olney, MD 20832	Gilders & decorative painters: Venetian plaster; national & international work.	Free Write in No. 8980
Glass House 800-222-3065; Fax: 860-974-1173 www.glasshouseusa.com Pomfret Center, CT 06259	Custom fabricator of conservatories & glass-roof systems: skylights & solariums; ornamental metal features, custom trim enhancements, copper cladding, true-divided-lite sash & doors; many glazing options.	Free Write in No. 1870
Grate Vents 815-459-4306; Fax: 815-459-4267 www.gratevents.com Crystal Lake, IL 60014	Manufacturer of wood floor, baseboard, wall & ceiling grates: from 2x10-in. to 20x32-in.; grilles & registers; all wood species.	Free Write in No. 5040
Guided Imagery Designs & Productions 650-324-0323; Fax: 650-324-9962 www.guided-imagery.com Woodside, CA 94062	Decorative-painting studio: trompe l'oeil; wall, ceiling & exterior murals; limited-edition mural & art border collection; travels nationally.	Free Write in No. 2527
Hanover Lantern 717-632-6464; Fax: 717-632-5039 www.hanoverlantern.com Hanover, PA 17331	Manufacturer of cast-aluminum lighting fixtures, poles, bollards, mailboxes & accessories: commercial, residential & landscape lighting; 23 different hand-applied finishes.	Free Write in No. 3440
Hearthstone, Inc. 800-247-4442; Fax: 865-397-9262 www.hearthstonehomes.com Dandridge, TN 37725	Manufacturer of timber-frame structures: traditional mortise-&tenon joinery; all wood species; residential, commercial, barns, churches & truss/roof systems; in-house design; nationwide.	Free Call for more information.
Hennessy House Wooden Flag Poles 800-285-2122; Fax: 530-862-0125 www.woodenflagpoles.com Sierra City, CA 96125	Manufacturer of old-style wooden flagpoles: for traditional grounds & buildings; glue-laminated Douglas fir construction; mounting brackets & accessories; shipping anywhere.	Free Write in No. 1180
Herwig Lighting 800-643-9523; Fax: 479-968-6422 www.herwig.com Russellville, AR 72811	Designer & manufacturer of cast metalwork: light fixtures, posts, benches, bollards & more; aluminum & bronze; hand crafted.	Free Write in No. 9130
Hollander Glass Central, Inc. 800-323-4293; Fax: 630-629-7325 www.hollanderglass.com Downers Grove, IL 60515	Wholesale distributor of specialty glass: antique, colored (over 2,000 shades), blown, stained & textured & patterned in clear & translucent; prismatic glass for old transoms; restoration.	Free Write in No. 9440
House of Antique Hardware 888-223-2545; Fax: 503-233-1312 www.houseofantiquehardware.com Portland, OR 97232	Supplier of door hardware & accessories: rare & ornate hardware; antique (1860s-1930s) styles; historic reproductions.	Free Write in No. 1096
Indital, USA 800-772-4706; Fax: 713-694-2055 www.indital.com Houston, TX 77028	Manufacturer of Italian-designed ornament: signature rosettes, baroque leaves, spears, handrails, pickets, staircases, balconies, railings, partitions, fences & more in steel.	Free Write in No. 6560
Innerglass Window Systems 800-743-6207; Fax: 860-651-3951 www.stormwindows.com Simsbury, CT 06070	Manufacturer of custom glass interior storm windows: conserves energy & soundproofs; Low-E glass, UV-blocking film & acrylic; easy do-it-yourself installation.	Free Write in No. 909
Island Post Cap 800-555-3694; Fax: 334-280-0043 www.islandpostcap.com Montgomery, AL 36108	Supplier of Western red cedar gates, finials, post caps, arbors, lantern & mailbox posts, trellises, deck accessories & pergolas: warehouses in AL & CA; ships in 5 to 7 days.	Free Write in No. 702
James Peters & Son, Inc. 215-739-9500; Fax: 215-739-9779 www.period-homes.com/ brochure/peter Philadelphia, PA 19122	Manufacturer of ornamental hardware: shutter & gate; wrought iron & steel; period styles.	Free Write in No. 1240
John Canning Painting & Conservation Studios 203-272-9868; Fax: 203-272-9879 www.canning-studios.com Cheshire, CT 06410	Conservator & restorer of decorative murals & trompe l'oeil: marbling, graining, stenciling, glazing, goldleafing & gilding; landmark buildings & new construction; Victorian & other styles.	Free Write in No. 5100

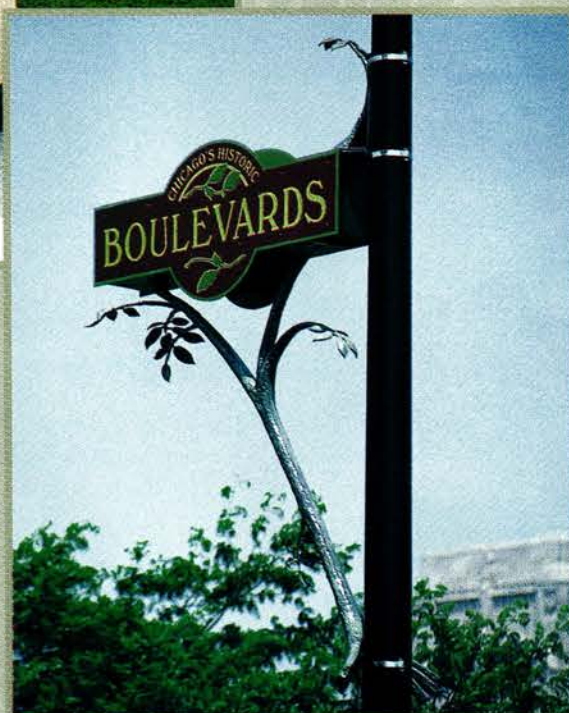
COMPANY	SPECIALTY	Literature
K&E Chemical Co. 800-331-1696; Fax: 216-341-1651 www.klenztone.com Cleveland, OH 44105	Manufacturer of Klenztone stone cleaners & other products for restoring, preserving & protecting stone, brick & masonry architectural elements.	Free Write in No. 4970
Kestrel Mfg. 800-494-4321; Fax: 610-326-6779 www.diyshutters.com Stowe, PA 19464	Supplier of shutters & related hardware: pegged mortise-&tenon joinery, shutter & cabinet hardware; custom-sized shutters available assembled or in shutter kits; panel & louver styles.	Free Write in No. 7990
King Architectural Metals 800-542-2379; Fax: 800-948-5558 www.kingmetals.com Dallas, TX 75228	Wholesale supplier of ornamental & architectural metal components: staircases, handrails, gates, fences, balustrades, furniture, mailboxes, doors, screens, urns, awnings & fireplace screens; wrought iron & aluminum.	Free Write in No. 418
Kingsland Co. Shutters 860-542-6981; Fax: 860-542-1752 www.kingsland-shutters.com Norfolk, CT 06058	Supplier of shutters: paneled, louvered, raised-paneled & cutouts; reproduction; Hondoras mahogany; all mortise-&tenon construction; custom styles.	Free Write in No. 196
Klitsas, Dimitrios - Fine Wood Sculptor 413-566-5301; Fax: 413-566-5307 www.klitsas.com Hampden, MA 01036	Fine-wood sculptor: newel posts, furniture (all periods), fireplace mantels, stairs, chandeliers, moldings & other specialty carvings; variety of wood species; 100% custom.	Free Write in No. 7380
Kremer Pigments, Inc. 212-219-2394; Fax: 212-219-2395 www.kremer-pigmente.com New York, NY 10012	Supplier of decorative painting materials: Venetian plaster, faux-finishing products, pigments & binders for frescoes, lime wash, milk paint & more.	Free Write in No. 4910
La Compania Antigua 505-471-2971; Fax: 505-471-3648 2755 Calle Serena Santa Fe, NM 87505	Supplier of doors & furnishings: antique style; custom work.	Free Write in No. 740
Lake Fountains & Aeration 800-666-5253; Fax: 407-327-7930 www.lakefountains.com Sanford, FL 32771	Manufacturer of floating fountains for lakes & ponds: variety of spray heights & patterns.	Free Write in No. 1109
Lehmann Glass Studio 510-465-7158; Fax: Same as phone www.lehmannglass.com Oakland, CA 94607	Manufacturer of wheel-cut art-glass panels: historic & modern designs; historic reproductions.	Free Write in No. 4730
Leo Uhlfelder Co. 914-664-8701; Fax: 914-664-8728 www.uhlfeldergoldleaf.com Mount Vernon, NY 10553	Manufacturer & distributor of decorative-painting accessories: gilder's tools, genuine & imitation gold leaf, silver leaf, aluminum leaf, bronze & aluminum powders, decorative-painting products, books & videos; travels nationally.	Free Write in No. 810
LeQuire, Alan 615-298-4611; Fax: Same as phone www.alanlequire.com Nashville, TN 37209	Figurative sculptor & portrait artist: monumental, miniature & life-sized work; all sculpture materials used; e-mail: lequire@mindspring.com	Free Write in No. 5230
Liberty Cedar 800-882-3327; Fax: 401-789-0320 www.libertycedar.com W. Kingston, RI 02892	Supplier of decay-resistant wood roofing & siding: Western red cedar & Alaska yellow cedar; all sizes & grades; historic projects; all sizes, shapes & wood species.	Free Write in No. 6530
Liberty Ornamental Products 800-636-5470; Fax: 419-636-2365 www.bryandiecast.com Bryan, OH 43506	Manufacturer of metal stairs & stair components: non-rusting pewter finish; plastic ornamental components.	Free Write in No. 5340
Little Giant Mfg. Co. 800-231-6035; Fax: 409-883-9605 www.little-giant.com Orange, TX 77630	Manufacturer of fiberglass church products: baptistries, crosses, steeples & spires; an architectural department produces custom products; since 1904.	Free Write in No. 452
M-Boss, Inc. 866-88M-BOSS; Fax: 216-641-7387 www.mbossinc.com Cleveland, OH 44125	Manufacturer of tin ceilings: antique/classic reproduction panels, contemporary panels, replicated & custom embossed metal panels; nail-up & easy-access suspended-ceiling panels.	Free Write in No. 1014
M. Swift & Sons, Inc. 800-628-0380; Fax: 860-249-5934 www.mswiftandsons.com Hartford, CT 06112	Manufacturer of gilding materials: 10k-24k gold, pure silver & aluminum (in leaf & rolls), composition (imitation gold) & copper; gilders' supplies & gold refining.	Free Write in No. 2490
Maguire Iron Corp. 510-234-7569; Fax: 510-232-7519 215 22nd St. Richmond, CA 94801	Supplier of traditional hardware: gate latches, hinges, bolts & pulls; wrought iron & cast metal; malleable castings; 21,000 items in stock.	Free Write in No. 7600
Mahlia Collection 520-791-2185; Fax: 520-761-2858 www.mahliacollection.com Nogales, AZ 85628	Supplier of doors & doorways: paneled, carved & complete entryways; all wood species; fire rated; customized with stone surround, or with any design in wood & metal or wood & glass.	Free Write in No. 8005
Marble Classics 410-265-6670; Fax: 410-265-6672 www.marbleclassics.com Baltimore, Md. 21207	Distributor of natural stone products: marble, limestone, sandstone & other stone; mantels, columns, capitals, balusters, fountains, statuary, monuments, stairs, cornices & more; all custom made; fabricators in Spain.	Free Write in No. 1126
Master-Halco 800-MH-FENCE; Fax: 562-691-4686 www.fenceonline.com La Habra, CA 90633	Manufacturer & distributor of fencing: brands include Monumental Iron Works ornamental iron & estate entry gates & Anchor Fence Products for chain-link.	Free Write in No. 6910
Monarch Products Co. 201-507-5551; Fax: 201-438-2820 www.monarchrad.com Carlstadt, NJ 07072	Supplier of all steel radiator enclosures: baked-enamel finishes & grille fronts; stock & custom; corporate boardrooms a specialty; offices, churches, institutions & private residences.	Free Write in No. 6060
Nixalite of America, Inc. 800-624-1189; Fax: 800-624-1196 www.nixalite.com East Moline, IL 61244	Manufacturer of stainless-steel needle strips for bird & climbing animal control: for roof peaks, gutters, parapets, HVAC equipment, chimneys, vents, skylights & more.	Free Write in No. 370

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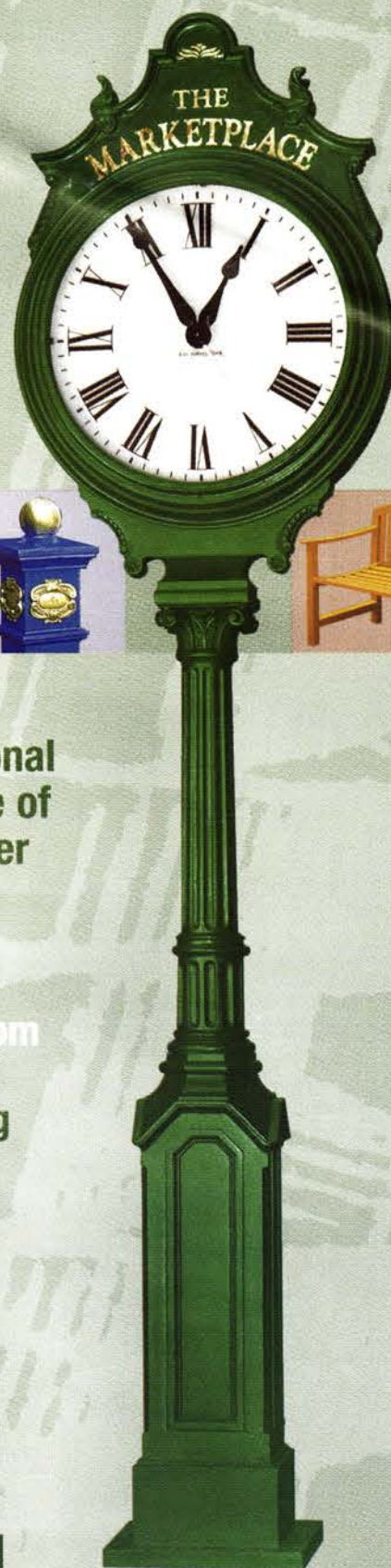
TRADITIONAL BUILDING *SourceList* HISTORICAL PRODUCTS SHOWCASE

COMPILED BY HADIYA STRASBERG

COMPANY	SPECIALTY	Literature
NOMMA- Nat'l. Ornamental & Misc. Metals Assn. 404-363-4009; Fax: 404-366-1852 www.nomma.org Forest Park, GA 30297	Major trade association: membership of over 1,000 metal craftspeople; goal of improving levels of professional excellence in metalwork; visit their website to find NOMMA members in your area.	Free Write in No. 5170
Notting Hill Decorative Hardware 262-248-8890; Fax: 262-248-7876 www.nottinghill-usa.com Lake Geneva, WI 53147	Distributor of cabinetry & furniture hardware & accessories: knobs & pulls; pewter or bronze with additional plating options; semi-precious stones, enamel & color-tinting; Arts & Crafts, Art Nouveau, Victorian & other styles.	Free Write in No. 319
Oak Leaf Conservatories 800-360-6283; Fax: 404-250-6283 876 Davis Dr. Atlanta, GA 30327	Designer, fabricator & installer of custom conservatories: using traditional British skills & premium materials; hardwood mahogany: true divided-lite double glazing; glass domes.	Free Write in No. 6860
Old World Iron, Inc. 972-484-9926; Fax: 972-484-9758 www.oldworldiron.com Dallas, TX 75207	Supplier of hand-forged ironwork: stair railings, balconies, doors & gates; wrought iron & hand-forged bronze; custom work.	Free Write in No. 332
Ornamental Metal Institute of N.Y. 212-697-5553; Fax: 212-818-0976 211 E. 43rd St. New York, NY 10017	Trade association: consultation, literature & education on the design & use of architectural & ornamental metals for construction professionals; associated services provided free of charge.	Free Write in No. 5430
Preservation Trades Network 301-309-2222; Fax: 301-279-7885 www.ptn.org Rockville, MD 20849	Preservation trades network.	Free Call for more information.
PRG, Inc. 800-774-7891; Fax: 301-279-7885 www.prginc.com Rockville, MD 20849	Supplier of consolidating, cosmetic & structural epoxies for wood repair: moisture meters & low-toxicity Borate wood preservatives; crack monitors, penetrating acrylic stains & wood sealants.	Free Write in No. 3030
Private Garden Greenhouse Systems 413-566-0277; Fax: 413-566-8806 www.private-garden.com Hamden, MA 01036	Designer & manufacturer of English Victorian greenhouses & custom conservatories: conservatory renovation & consultation services.	Free Call for more information.
Quarry Line, Inc. 630-718-1808; Fax: 630-718-1805 www.quarryline.com Naperville, IL 60540	Custom fabricator of floating-stone fountains: highly polished solid-granite sphere gently rotates on thin layer of water in a base; fountain spheres up to 10 ft. in dia. & weighing more than 20 tons; can easily be turned by hand.	Free Write in No. 1560
Reggio Register Co., The 978-772-3493; Fax: 978-772-5513 www.reggioregister.com Ayer, MA 01432	Manufacturer & supplier of grilles & registers: for hot-air & high-velocity systems; aluminum, brass & cast iron; decorative & functional; hand crafted.	Free Write in No. 5810
Renaissance Conservatories 800-882-4657; Fax: 717-661-7727 www.renaissance-online.com Leola, PA 17540	Designer, manufacturer & installer of traditional conservatories, contemporary sunrooms, greenhouses, skylights, roof lanterns & garden windows: hand-crafted mahogany & cedar components; custom designs.	Free Write in No. 378
Restoration Associates 210-820-3432; Fax: 210-820-3447 www.restorationassociates.com San Antonio, TX 78209	Conservator & restorer of decorative painting.	Free Write in No. 1185
Romancing The Woods, Inc. 845-246-6976; Fax: 845-246-1021 www.rtw-inc.com Woodstock, NY 12498	Manufacturer of rustic garden & woodland structures & interior furnishings: Eastern red cedar & other woods indigenous to NY Catskill Mountain region; 19th-century style of European estate gardens & the Adirondack Great Camps.	Free Write in No. 5010
Schiff Architectural Detail 617-887-0202; Fax: 617-887-0127 www.schiffarchitectural.com Chelsea, MA 02150	Custom fabricator of metal artistry: exterior lamps & lamp posts, plaques & pipe-&ball fencing; non-ferrous forge work; machine-shop service; rubber molding & pattern work; historic restoration, conservation & refurbishment.	Free Write in No. 7730
Scott Aerator Co., LLC 800-WATER-45; Fax: 616-392-8860 www.scottaerator.com Holland, MI 49424	Manufacturer of fountains & aerators to improve water quality: constructed of high-density polyurethane & stainless steel; oil-free motor with a five-year unconditional warranty; lights optional.	Free Write in No. 3144
Seibert & Rice, Inc. 973-467-8266; Fax: 973-379-2536 www.seibert-rice.com Short Hills, NJ 07078	Importer & distributor of Italian specialty items: benches, fountains, garden planters, urns & ornament in terra cotta; high relief, fine detailing & frost proof; handmade.	Free Write in No. 5500
Sepp Leaf Products, Inc. 800-971-7377; Fax: 212-725-0308 www.seppleaf.com New York, NY 10016	Supplier of specialty painting materials: gold, silver & metal leaf, gilding supplies & tools, Liberon wood-finishing products, mica powders, Mixol universal tints & Venetian plaster.	Free Write in No. 2880 for Gold-Leaf Supplies; 1006 for Kolcaustico
Sheppard Doors & Glass 832-644-2444; Fax: 832-644-2499 www.beveldoor.com Humble, TX 77346	Manufacturer & distributor of doors & glass: beveled, stained- & leaded-glass doors, sidelites & entryways; Craftsman, Victorian & Southwest styles; custom built.	Free Write in No. 1371
Shutter Depot 706-672-1214; Fax: 706-672-1122 www.shutterdepot.com Greenville, GA 30222	Supplier of shutters & shutter hardware: 2-1/2-in. movable louver, raised-panel louver & fixed louver; finished & unfinished; custom & stock.	Free Write in No. 6830
Shuttercraft 203-245-2608; Fax: 203-245-5969 www.shuttercraft.com Madison, CT 06443	Manufacturer of interior/exterior wood shutters: all sizes, moveable louvers, fixed louvers, raised panels, board & batten, cut outs; cedar, poplar, basswood & red oak; hardware; painting services.	Free Write in No. 1321
Snelling's Thermo-Vac, Inc. 318-929-7398; Fax: 318-929-3923 www.ceilingmagnifique.com Blanchard, LA 71009	Supplier of decorative polymer products: wall panels, ceiling tiles & moldings in polystyrene.	Free Write in No. 8450
Sur-Fin Chemical Corp. 323-262-8108; Fax: 323-264-7734 www.patinausa.com Los Angeles, CA 90023	Manufacturer of patinas & finishes for metal: copper, brass, bronze, galvanized steel, iron, pewter, solder & aluminum; clear exterior/interior lacquers for metals; coatings & cleaners.	Free Write in No. 5620

COMPANY	SPECIALTY	Literature
Tanglewood Conservatories 410-479-4700; Fax: 410-479-4797 www.tanglewoodconservatories.com Denton, MD 21629	Manufacturer of hand-crafted English glass houses & conservatories: historical details, insulated glass & multi-point brass hardware; installation services.	Free Write in No. 8270
Texas Metal Industries, Inc. 800-222-6033; Fax: 800-472-3807 www.txmetal.com Crandall, TX 75114	Supplier of ornamental castings: furniture, lighting, gates, fences, mailboxes, finials, balustrades, fountains, lamp posts & urns; aluminum, cast iron & forged steel.	Free Write in No. 9430
The Wagner Companies 800-786-2111; Fax: 414-214-0450 www.rbwagner.com Butler, WI 53007	Manufacturer of handrail fittings: ornamental hemispheres & hollow balls; custom bending of tubes for railings.	Free Write in No. 8035
Thomann-Hanry, Inc. 212-755-5550; Fax: 212-755-6385 www.gommage.com New York, NY 10022	Cleaner of masonry: field-proven French process, Facade Gommage; very fine powder with low-pressure compressed air is projected; no chemicals or detergents; Louvre Museum & Philadelphia City Hall projects.	Free Write in No. 8102
Timberlane Woodcrafters, Inc. 800-250-2221; Fax: 215-616-0753 www.timberlane.com North Wales, PA 19454	Custom fabricator of exterior wood shutters & reproduction shutter hardware: 22 different styles, all custom, built to order.	Free Write in No. 1056
Timberpeg 603-298-8820; Fax: 603-298-5425 www.timberpeg.com W. Lebanon, NH 03784	Manufacturer of timber-frame structures: network of dealers provides local service; architectural & engineering staff facilitates communication with outside architects & designers; trusses, roof systems, complete packages.	Free Call for more information.
Touch's Of Illusion, Inc. 708-445-7200; Fax: 708-445-7234 www.restorationpreservation.com Oak Park, IL 60302	Designer of murals & decorative finishes: architectural elements & faux finishes; restoration, preservation & replication.	Free Write in No. 2221
Tuck Langland, Sculptor 574-272-2708; Fax: Same as phone www.columbinensg.com/ artistlangandportfolio.htm Granger, IN 46530	Designer & creator of indoor sculpture & garden figures in bronze: major public artworks; limited editions & commissions; portrait busts, commemorative figures & monuments.	Free Write in No. 764
U.S. Heritage Group, Inc. 773-286-2100; Fax: 773-286-1852 www.usheritage.com Chicago, IL 60641	Supplier of lime putty & ready-to-use custom mortars, stuccos & lime washes: historic-mortar matching; consulting services; repointing tools & training workshops.	Free Write in No. 852
Unique Mantel Co.- Southern Group Enterprise 888-458-3716; Fax: 909-464-1787 www.uniquemantel.com Pomona, CA 91766	Manufacturer & distributor of architectural fireplace mantels in natural marble: hand carved; distributors pay factory price.	Free Write in No. 963
Vermont Timber Frames, Inc. 518-677-8860; Fax: 518-677-3626 www.vtf.com Cambridge, NY 12816	Manufacturer & distributor of traditional timber-frame products: antique heavy timbers, fabricated trusses & roof systems; Douglas fir, pine, oak, cedar & more; commercial & residential projects.	Free Write in No. 8540
Vintage Woodworks 903-356-2158; Fax: 903-356-3023 www.vintagewoodworks.com Quinlan, TX 75474	Manufacturer of wood screen doors & stair parts: turned posts, turned & sawn balusters, railings, brackets, corbels, custom-length spandrels & more.	Free Write in No. 1061
Walpole Woodworkers 508-668-2800; Fax: 508-668-7301 www.walpolewoodworkers.com Walpole, MA 02081	Manufacturer & retailer of fencing, small buildings, lanterns, gates, arbors, gazebos, sheds, furniture & garden amenities: over 40 standard styles of fencing & custom designs.	Free Write in No. 280
Ward Industries 574-825-2548; Fax: 574-825-5645 58582 State Rd. 13 Middlebury, IN 46540	Manufacturer of decorative street lighting: Victorian-style copper lanterns in incandescent, HID & gas-burning.	Free Write in No. 4090
Waupaca Elevator Co., Inc. 800-238-8739; Fax: 920-991-9087 www.waupacaelevator.com Appleton, WI 54911	Manufacturer of residential elevators & residential & light-duty commercial dumbwaiters: specialty gates & interlocks; custom craftsmanship; national distribution.	Free Write in No. 1260
Wayside Fence Co. 800-847-7789; Fax: 631-968-6928 www.waysidefence.com Bay Shore, NY 11706	Manufacturer of over 75 styles of custom cedar fences: over 45 styles of maintenance-free PVC fence, gates, arbors, pergolas, transitions, arches, posts, caps & sleeves, PVC decking & railing, pool fence & Del-gard aluminum ornament.	Free Write in No. 4260
Weathercap, Inc. 985-649-4000; Fax: 985-847-1237 P.O. Box 1776 Slidell, LA 70459	Manufacturer of a soft lead strip, set & bedded in caulking compound/sealant, which forms a cap that assures a permanent elastic seal for any masonry joint.	Free Write in No. 504
Wehrung & Billmeier 773-472-1544; Fax: Same as phone 1924 Eddy St. Chicago, IL 60657	Supplier of gilding materials: metallic, silver & gold leaf from 12k to 24k, aluminum leaf & imitation gold leaf; products sold in books, packs & rolls.	Free Write in No. 8900
Wheeler Consolidated 800-328-3986; Fax: 952-929-2909 www.wheeler-con.com Bloomington, MN 55431	Designer & manufacturer of timber & steel bridges for vehicular or pedestrian use: timber is preservative-treated; bridges are shipped assembled or unassembled.	Free Write in No. 1063
Whitacre-Greer 800-WG-PAVER; Fax: 330-823-5502 www.wgpaver.com Alliance, OH 44601	Manufacturer of clay dry-pressed pavers: 14 permanent earth-tone colors; smooth, textured & cobbled finish; four thicknesses & various face sizes.	Free Write in No. 505
Whitechapel, Ltd. 307-739-9478; Fax: 307-739-9458 www.whitechapel-ltd.com Jackson, WY 83002	Distributor & supplier of hardware: door knobs & escutcheons, hinges, box locks, slide bolts & mortise locks; standard designs & patterns; European hardware.	Free Write in No. 1391

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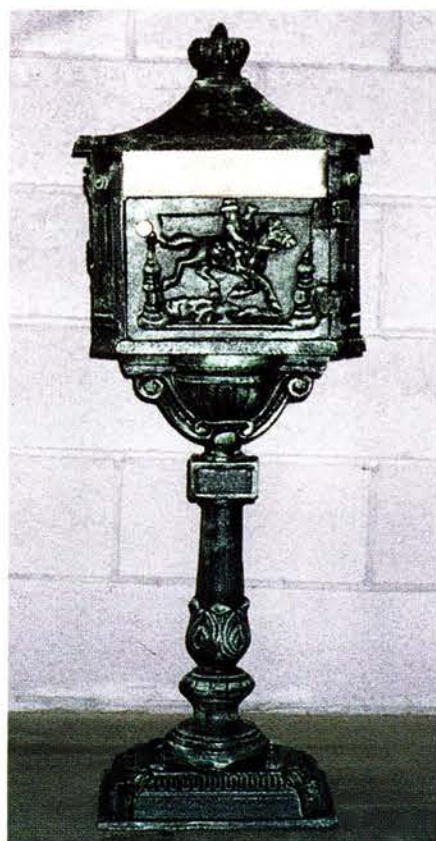
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For full contact information on these companies, consult the SourceList on pp. 19-24.

DIVISION 2 PARKS, GARDENS & STREETSCAPES



Richly decorated period-style mailboxes are available in cast aluminum from AM-DIA. Write in No. 95



Traditionally styled flag poles made by HENNESSY HOUSE WOODEN FLAG POLES add an historic touch to any environment. Write in No. 1180



Hydraulic in-ground swing gate operators from FAAC are designed to handle large gates. Write in No. 551



These hand-wrought steel tables, benches, and umbrellas with woven mesh screens are part of CANTERBURY INTERNATIONAL'S Bowery System series. Write in No. 1750



The Pave-El paver pedestal system supplied by ENVIROSPEC was used to create this walkway. Write in No. 5157



This floating-stone fountain fabricated by QUARRY LINE features a map of the world. Write in No. 1560



ELDERHORST BELLS installed this tubular-steel bell tower with a four-faced clock and computer-operated carillon in the Masonville Mall in London, Ont. Write in No. 2100



WALPOLE WOODWORKERS installed this monumental iron fence and gate for a waterfront area. Write in No. 280



This lemonflower box, measuring 21x7x7 in., is one of SEIBERT & RICE's Impruneta terra-cotta planters. Write in No. 5500



Modular, decorative balusters from ARCHITECTURAL IRON DESIGNS were used to fabricate this metal fence. Write in No. 7950



This pre-fabricated ornamental iron gate kit by AMAZINGGATES.COM does not need welding, and includes posts, hinges, operator, and controls. Write in No. 1102



AQUA CONTROL produces a variety of fountains, such as this 1-hp. bowl model. Write in No. 985



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LiquidWood: liquid, penetrating consolidant for restoring strength and function to rotted or spongy wood.

Both **LiquidWood** and **WoodEpoxy** permanently restore structures, windows, furniture, columns, frames, statuary, boats and most rigid surfaces, and impart water and insect resistance.

Stone, Concrete, Masonry Restoration

AboCrete: to permanently repair, resurface fill and bond driveways, floors, decks, swimming pools, most damaged rigid surfaces, concrete, wood, metal and other surfaces.

AboWeld 55-1: structural thixotropic paste to permanently repair or reshape stairs, statuary and vertical surfaces without forms.

AboWeld 8005-6: to bond new poured concrete to old concrete and other surfaces.

AboCoat and Abothane Series: protective coatings for floors, walls, tanks, tubs, boats. Water dispersions, solvent systems or 100% solids.

AboJet Series: for structural crack-injection, in a wide range of viscosities and other properties.

Mold Making and Casting Compounds

MasterMold 12-3: non-toxic polyurethane paste for flexible, large and small molds. Best for architectural components, columns, capitals, statuary, moldings, decorative and structural elements. Excellent elasticity, form retention and number of castings.

MasterMold 12-8: liquid 12-3 to pour flexible molds.

AboCast 4-4: pourable compound for rigid large and small molds and castings, from machinable tooling and patterns to castings of any size, meeting most chemical/thermal/mechanical specifications.

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AboCast 8 Series: versatile, clear epoxy casting compounds in a wide range of viscosities, reactivities and other properties.

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meet any new requirement or preference.*



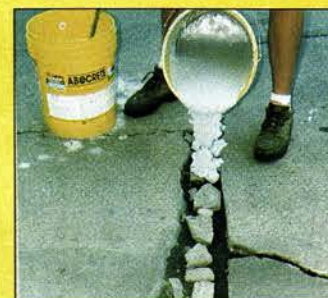
Rotted & infested base of a loadbearing column is completely sawed off & replaced with **WoodEpoxy**.



Antique window sash is salvaged, consolidated with **LiquidWood** & rebuilt with **WoodEpoxy**.



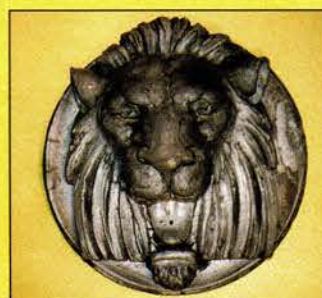
Consolidation & rebuilding of rotted windowsill with **LiquidWood** & **WoodEpoxy**.



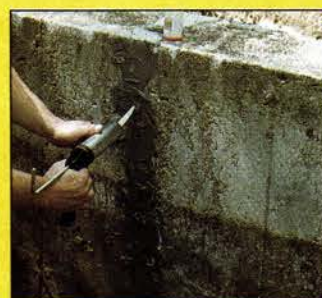
AboCrete, is much stronger than concrete, bonds permanently & does much more, quickly & for much less money.



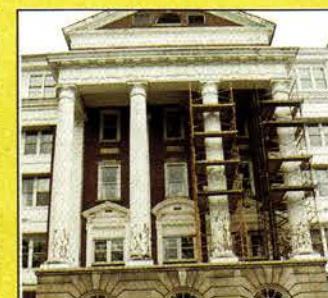
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Michael A. Dow of DOW WOOD-CARVING carved this sink; it is one component of a wall fountain designed by Dale Mallie of Archetype Inc. of Florida. *Write in No. 5220*



The builders were able to achieve precise leveling for these concrete pavers by using BISON SCREWJACK pedestals which can be individually adjusted by turning the base. *Write in No. 742*



Display aerators from SCOTT AERATOR are designed to improve water quality and help control sludge, algae, and weed build-up, while also providing an attractive setting. *Write in No. 5144*



ISLAND POST CAP fabricates a wide variety of finials in pine, cedar, redwood, mahogany, and oak. *Write in No. 702*



MASTER-HALCO added a row of 9-in. rings encircling fleur-de-lis finials to distinguish this fence. *Write in No. 6910*



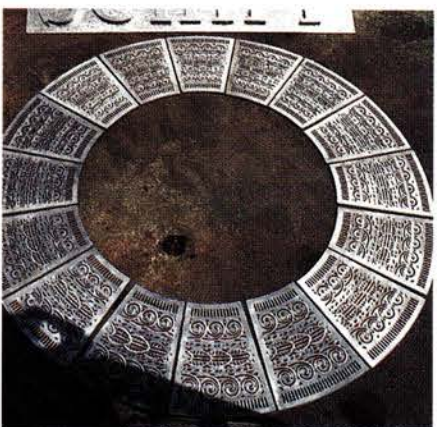
This charming bench was fabricated by ROMANCING THE WOODS using Eastern red cedar, a wood that is indigenous to the Catskill Mountains in New York State. *Write in No. 5010*



Cast-aluminum street clocks from HERWIG LIGHTING often incorporate the name or logo of the organization that commissioned the fixture. *Write in No. 9150*



WHITACRE-GREER produces vacuum dry-pressed pavers in 15 standard colors and in various sizes. *Write in No. 505*



These ornamental grates were cast by SCHIFF ARCHITECTURAL DETAIL for a large public-fountain project. *Write in No. 7750*



Colorful flags and banners are fabricated by FLAG FACTORY in 310-denier nylon fabric. *Write in No. 479*



This 15-in. cast-iron yard bell was restored by BROSAMER'S BELLS. *Write in No. 7150*

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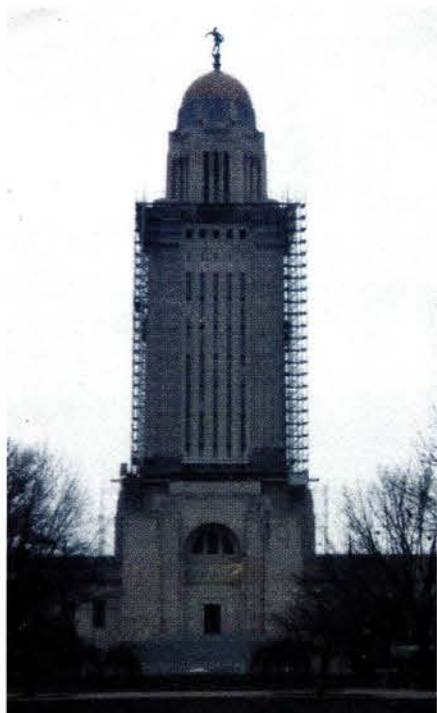
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DIVISION 4 STONE, BRICK & MASONRY



U.S. HERITAGE created the replacement mortar for the restoration of the Nebraska State Capitol, Lincoln, Neb., using an original sample from the building to create the new mortar formulation. *Write in No. 852*



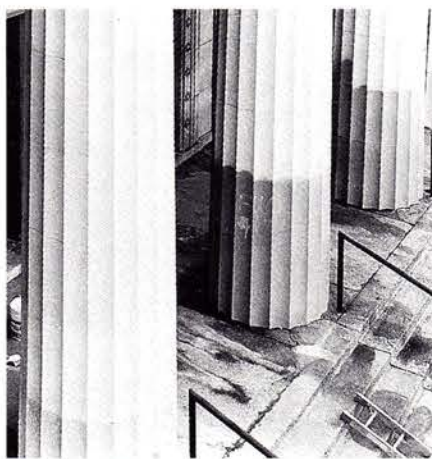
These before (above) and after (below) photos show how paint remover and masonry restorer from DIEDRICH TECHNOLOGIES can bring a house back to life. *Write in No. 5200*



THE CHIMNEY POT SHOPPE has over 1,000 antique and new chimney pots in stock. *Write in No. 410*

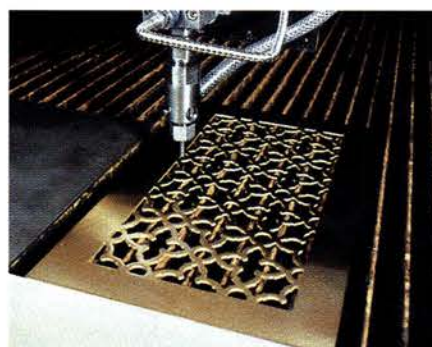


The exterior of the Louvre museum in Paris, France was cleaned by THOMANN-HANRY using its Facade Gommage process, which does not use chemicals. *Write in No. 8102*



K&E CHEMICAL CO. developed Klenztone, a cleaning formula that penetrates the pores of a masonry surface so the dirt can be released and washed away. *Write in No. 4970*

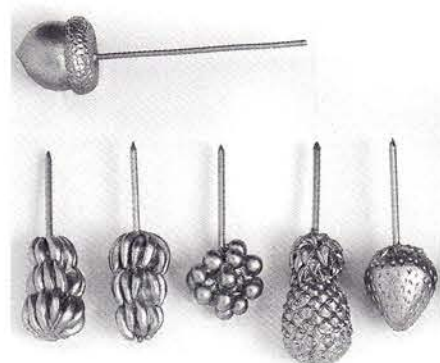
DIVISION 5 ORNAMENTAL METALWORK



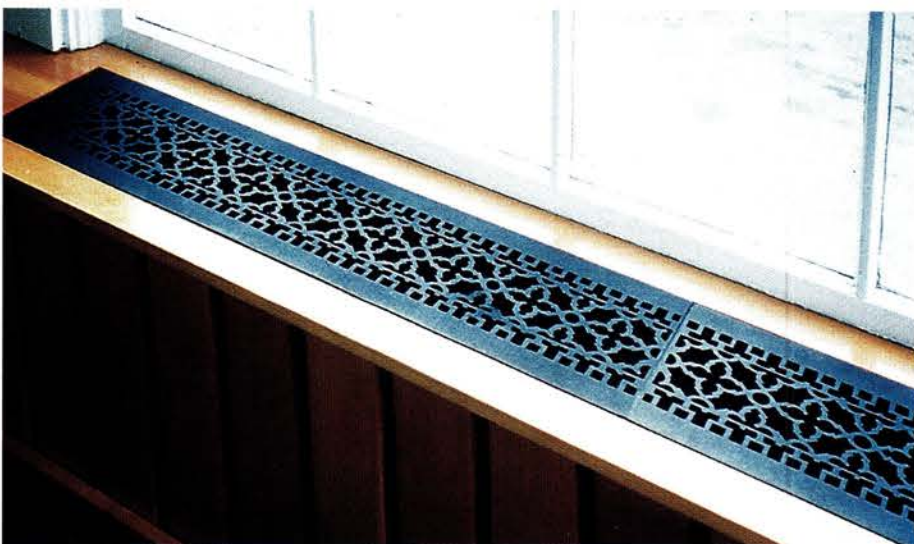
Water-jet cutting technology is used by ARCHITECTURAL GRILLE to create many different styles of grilles. *Write in No. 9820*



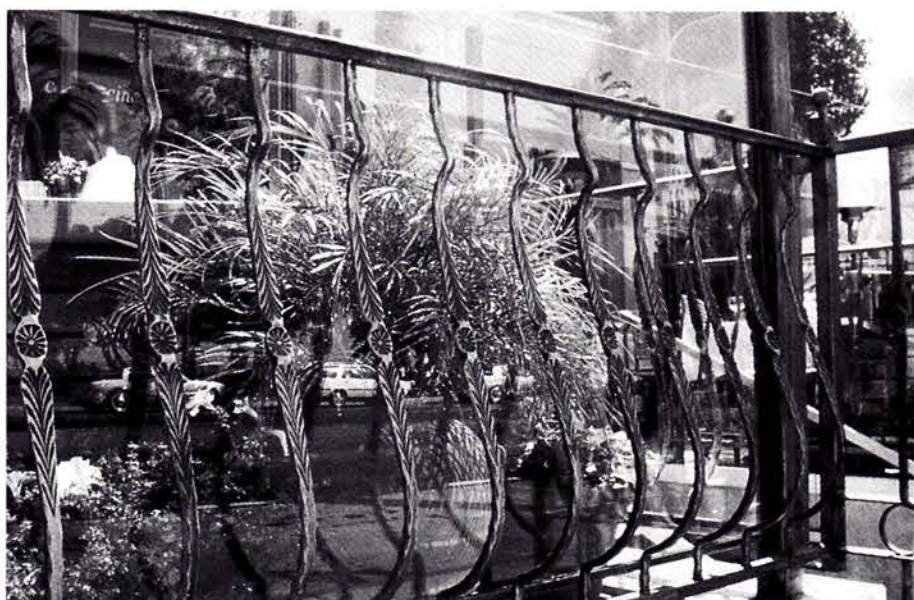
This wrought-iron gate and balcony railing by INDITAL was made in Italy. *Write in No. 6560*



FRANK MORROW's new white metal cast fruits are on annealed steel wire stems for easy welding; in addition to the acorn, bananas, berry, pineapple, and strawberry shown here, other fruits such as blackberries, oranges, lemons, apples, and figs are available. *Write in No. 1220*



This 8x64-in. register represents the workmanship of REGGIO REGISTER, which produces cast iron, brass, and aluminum registers in many historic patterns. *Write in No. 5810*



Decorative metalwork such as these forged-steel bowed balusters created by KING ARCHITECTURAL METALS can be used in a variety of applications. *Write in No. 418*



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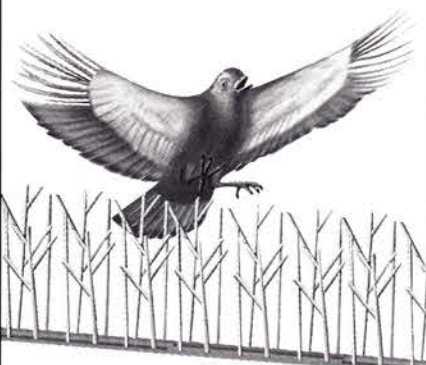


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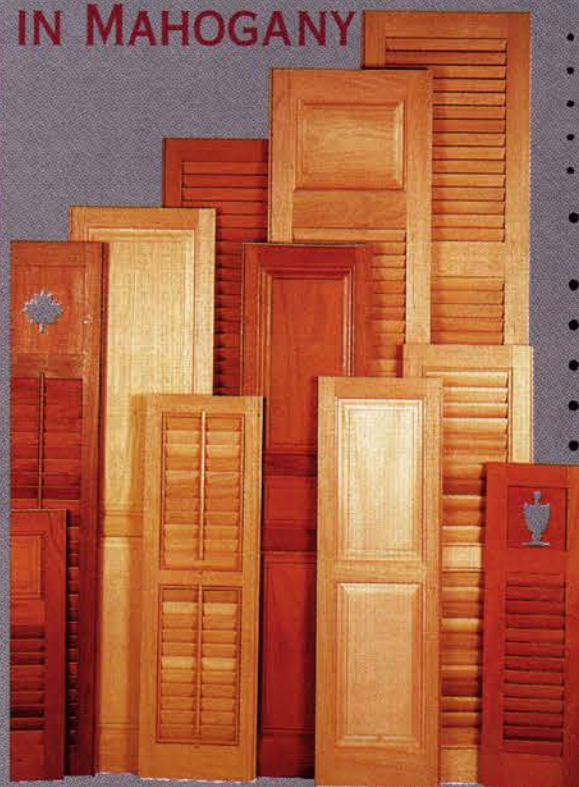
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WRITE IN NO. 196

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This ornamental element is one of many designs available from DECORATIVE IRON. Write in No. 5056



Since 1952, DEER PARK STAIR-BUILDING has designed and manufactured custom and production stairs and pre-fabricated railings in a variety of wood species. Write in No. 1107

DIVISION 7 ROOFING MATERIALS, SIDING & ROOF SPECIALTIES



Decay-resistant cedar roofing and siding can be acquired from LIBERTY CEDAR and installed in decorative patterns. Write in No. 6550

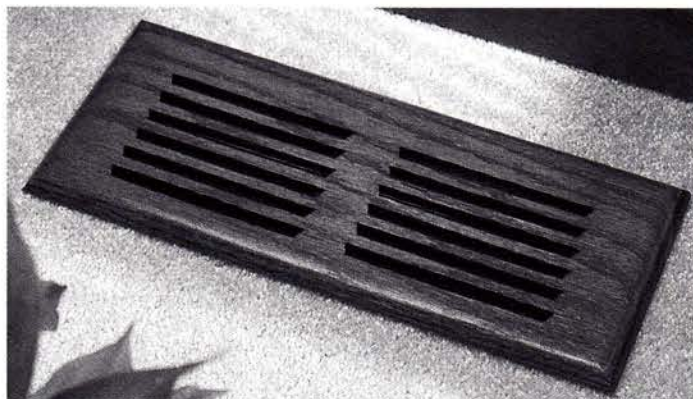


These spears, finials, and shoes for fences and gates are part of the extensive line of ornamental aluminum castings offered by TEXAS METAL INDUSTRIES. Write in No. 9450

DIVISION 6 ARCHITECTURAL MILLWORK & COLUMNS



These logs in the W.D. COWLS' lumberyard will be milled into large timbers for timber-frame structures, millwork, and flooring. Write in No. 5270



Solid-wood registers are manufactured by ALL AMERICAN WOOD REGISTER in standard and custom sizes. Write in No. 70

DIVISION 8 DOORS, WINDOWS & HARDWARE



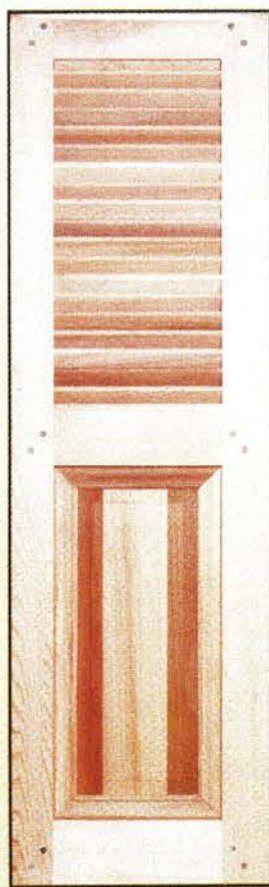
These two sets of shutters were fabricated by KINGSLAND CO. to the client's specifications. Write in No. 196



This ornamental interior stair railing was custom designed by ARTISTIC RAILINGS. Write in No. 5026



Patina specialist SUR-FIN CHEMICAL offers a wide range of finishes for metals, such as this orange patina, #NR-11. Write in No. 520



The Nockamixon model #UB8000 wood shutter is one of the many models offered by TIMBERLANE WOOD-CRAFTERS. Write in No. 1056

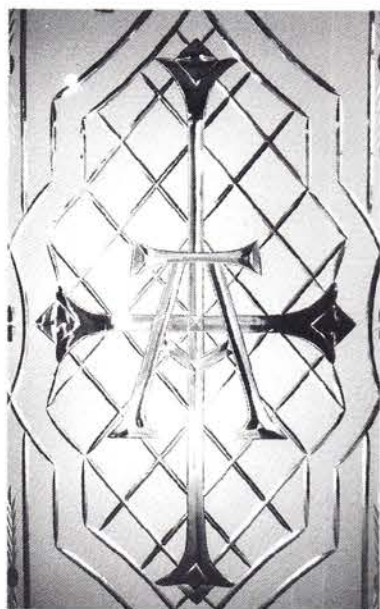


This wall-mounted cold air return from GRATE VENTS measures 20x14 in. Write in No. 5040



This ornate traditionally styled door handle and escutcheon is the work of E.R. BUTLER. Write in No. 2260

Lehmann GLASS STUDIO



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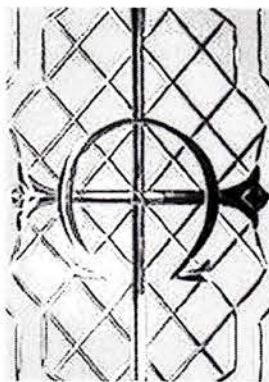
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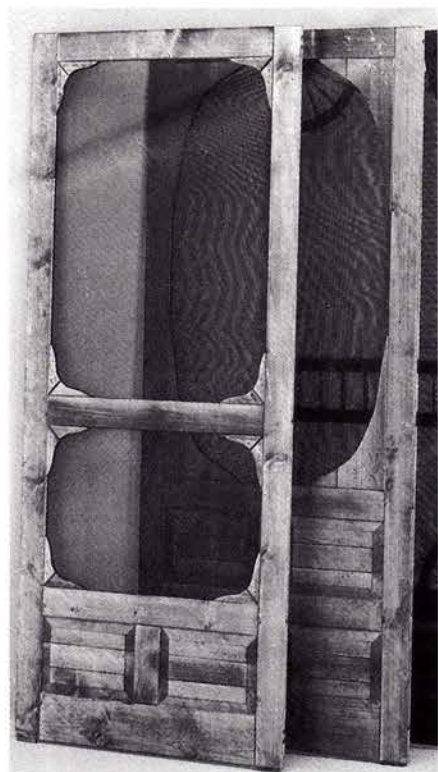


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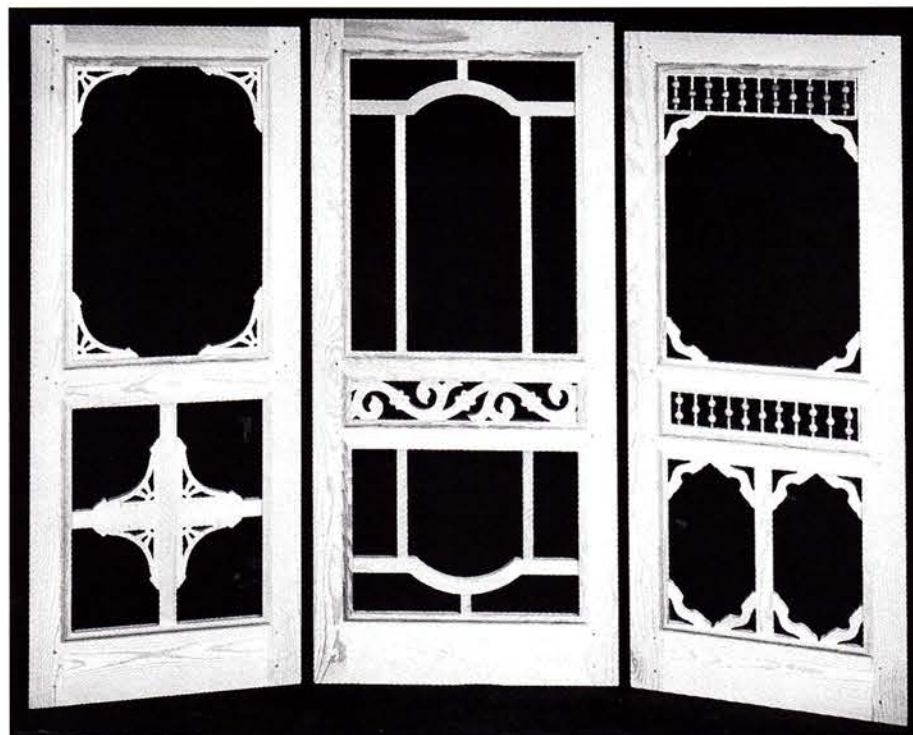
WRITE IN NO. 964 FOR ALUMINUM AND 1042 FOR STORM WINDOWS

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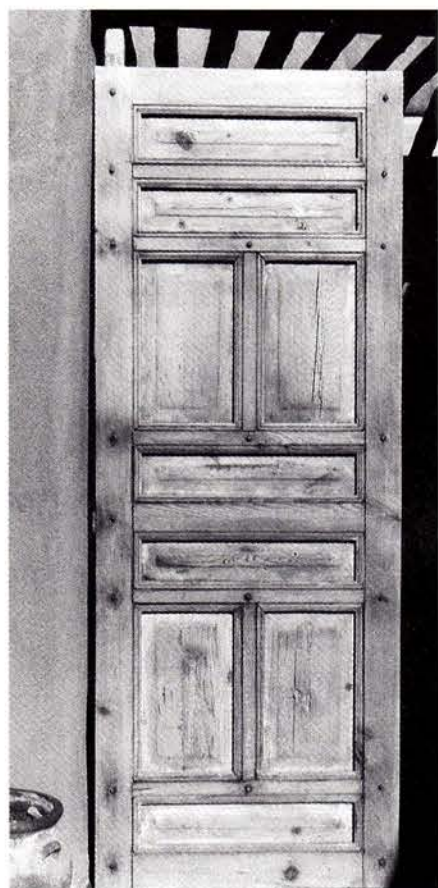
Wood screen doors manufactured by COPPA WOODWORKING can be delivered painted or stained; many styles are offered. Write in No. 9600



A variety of period-style solid-wood screen doors are available from VINTAGE WOODWORKS with optional storm panels and tempered safety-glass storms are offered. Write in No. 1061



Vinyl-framed glass interior windows from INNERGLASS can be mounted on the inside of the stops of the primary window. Write in No. 909



LA COMPANIA ANTIGUA fabricated this custom door with a distressed look. Write in No. 740



Custom one-of-a-kind garage doors, are fabricated by DESIGNER DOORS following historic guidelines. Write in No. 109



Reeded glass is one of the many types of specialty glass for restoration available from HOLLANDER GLASS CENTRAL. Write in No. 944



This 9x7-ft. double door was fabricated by MAHLIA COLLECTION using a distressed, steel-brushed patina and bronze escutcheons and face plates. Write in No. 8005



This Craftsman door from SHEPPARD DOORS & GLASS is from the firm's Tiffany Door Set. Write in No. 1571



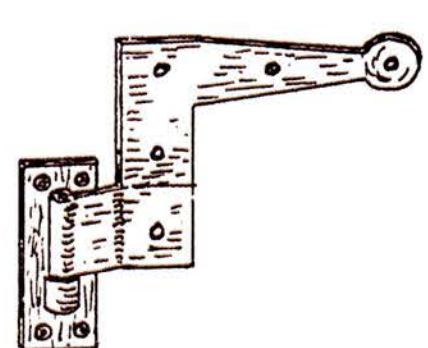
Hand-crafted, custom-made wood shutters are fabricated by KESTREL with raised or flat panels and with fixed or operable louvers. Write in No. 7990



Cabinet and furniture hardware from NOTTING HILL includes Cones & Boughs knobs, #NHK-138, and a knob and pull in a Crane Dance design, numbers NHK-137 and NHP-637, respectively. Write in No. 519



SHUTTERCRAFT offers a variety of wood shutters with moveable and fixed louvers, as well as some board-and-batten models, with shutter holdbacks/hardware. Write in No. 1521



Heavy-duty traditional shutter hardware, such as this YL hinge, are produced by JAMES PETERS & SON in offsets ranging from zero through 2-1/4 in. Write in No. 1240



MAGUIRE IRON imports and sells traditional builders' hardware, such as these handsome door handles. Write in No. 7600

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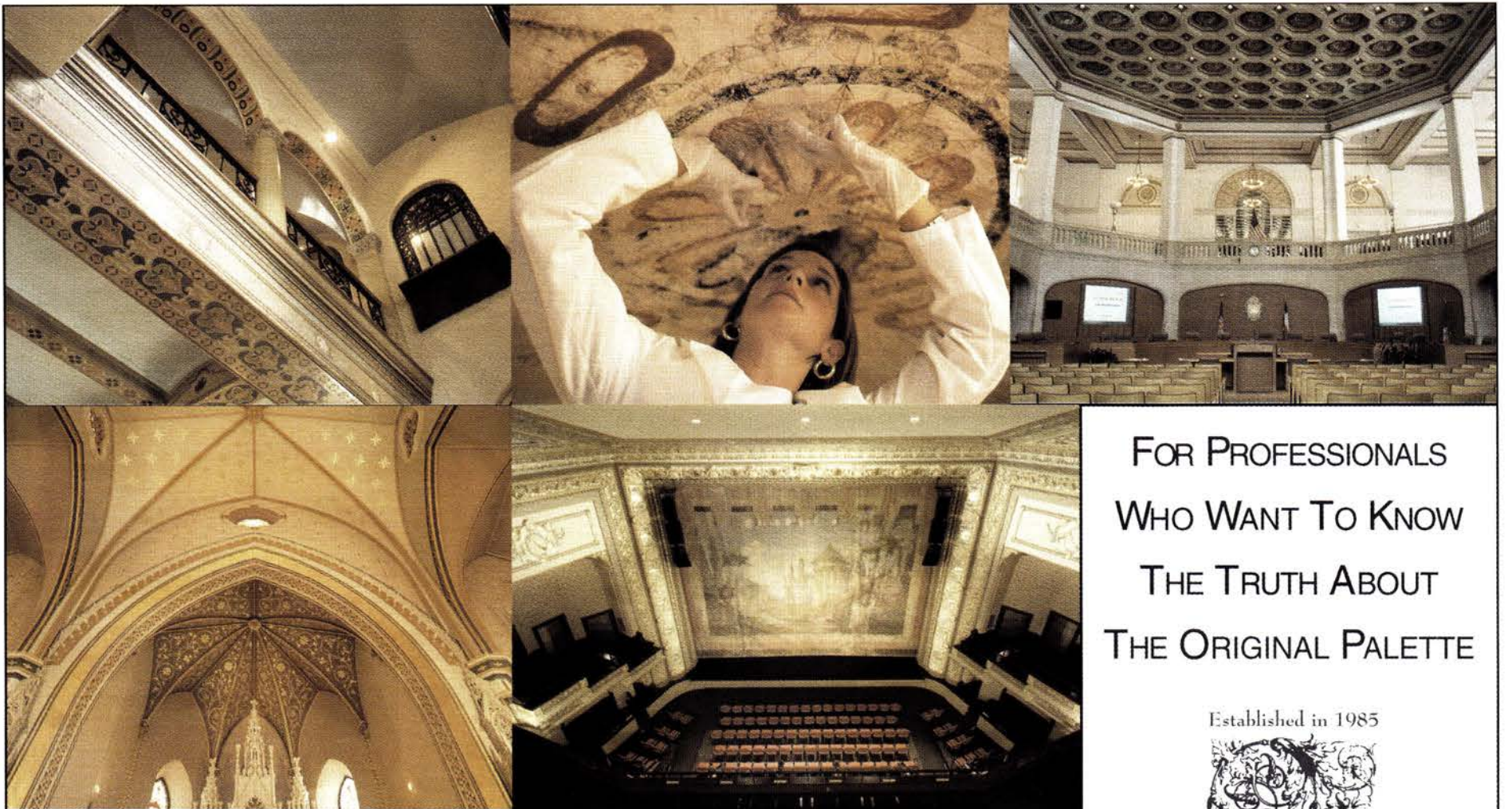
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WRITE IN NO. 1185

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For full contact information on these companies, consult the SourceList on pp. 19-24.

DIVISION 9 FLOORS, WALLS, CEILINGS, FINISHES & MOLDED ORNAMENT



GUIDED IMAGERY created this trompe l'oeil niche for the Stanford Terrace Inn in Palo Alto, Calif. Write in No. 2527



KREMER PIGMENTS uses traditional raw materials to create historical paints and other finishes. Write in No. 4910



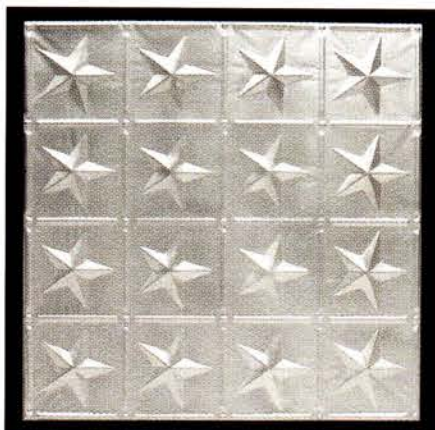
The gold-leaf surfaces in this court building were cleaned by ALBERT MICHAELS CONSERVATION, which also restored the woodwork, furnishings, and murals, and replicated the decorative finishes. Write in No. 5056



BRIAN GREER'S TIN CEILINGS, WALLS & UNIQUE METAL WORK specializes in 2x2-ft. tin ceiling panels, such as this model #36, dating from the 1890s. Write in No. 966



This interior decorative restoration of the dining room at Farmington Plantation in Louisville, Ky., features an early-19th-century wallpaper pattern drawn from a sample discovered in Benjamin Henry LaTrobe's Pope Villa in nearby Lexington, Ky.; it was custom reproduced as a wood block print by ADELPHI PAPER HANGINGS. Write in No. 1572



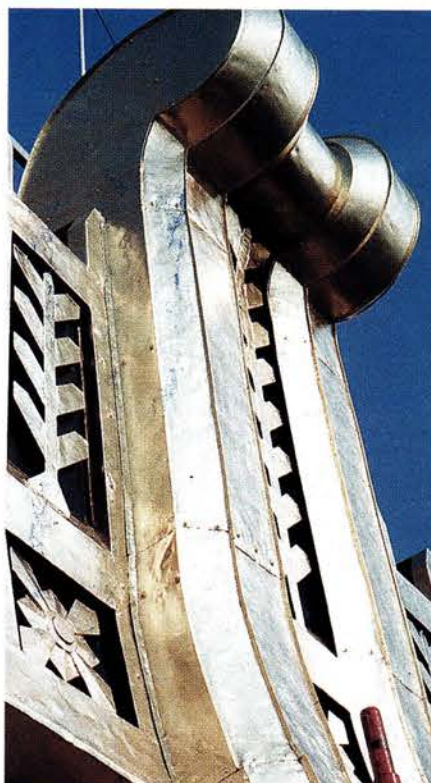
The star pattern is one of the many historic patterns supplied by CHELSEA DECORATIVE METAL; these tin-plated steel panels can be used on walls or ceilings. Write in No. 190



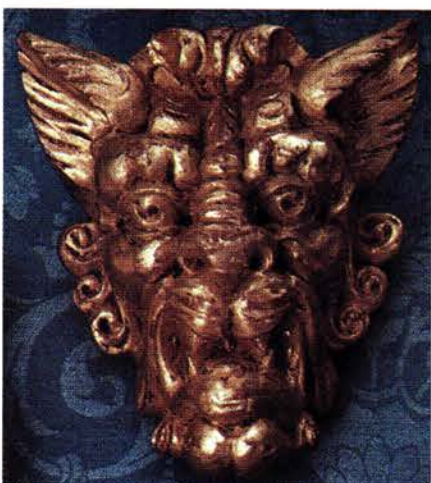
A wide range of gold-leaf supplies and accessories can be acquired from EASY LEAF PRODUCTS. Write in No. 1980



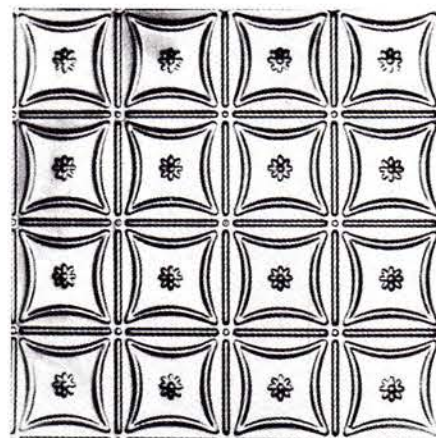
EVERGREENE PAINTING STUDIOS developed a methodology for cleaning tobacco-stained Italian marble in the three-story-high double grand staircase of the Allen County Courthouse in Fort Wayne, Ind., while protecting adjacent decorative painting and metals. Write in No. 2460



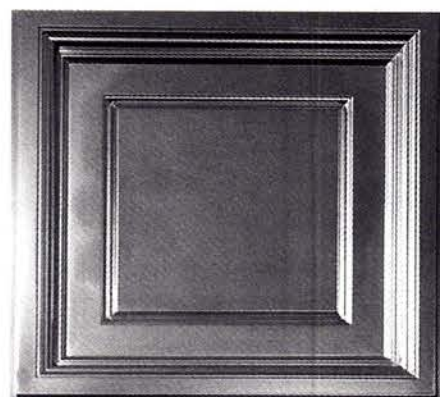
This detail on Nation's Bank in Baltimore, Md., shows gilding done by THE GILDERS' STUDIO on lead-coated copper. Write in No. 8980



This drapery element was gilded using gold-leaf products supplied by SEPP LEAF PRODUCTS. Write in No. 2880



Pressed-metal ceiling and wall panels, such as this model #200, are offered by AA-ABBINGDON AFFILIATES in dozens of patterns. Write in No. 8920



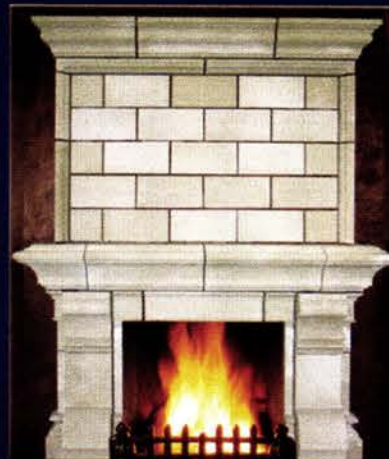
Made of a durable polymer plastic, SNELLING'S THERMO-VAC wall and ceiling panels duplicate historic patterns and are used with suspended-ceiling grid systems. Write in No. 8450

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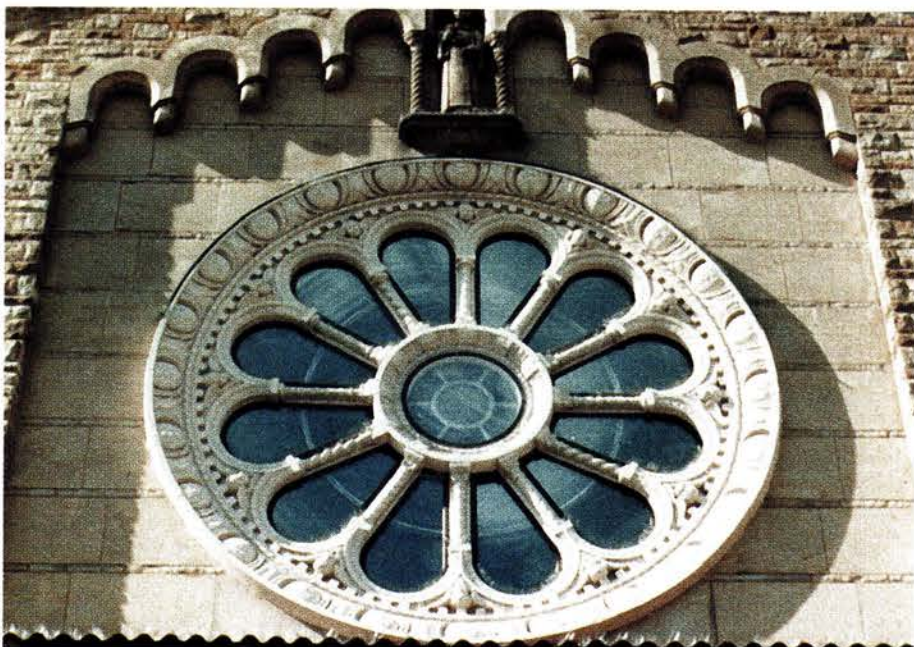


WRITE IN NO. 8045

HISTORICAL PRODUCTS SHOWCASE PORTFOLIO

For full contact information on these companies, consult the SourceList on pp. 19-24.

DIVISION 10 SPECIALTIES



NIXALITE's bird-protection system was utilized for this church facade to protect the window and other architectural elements. *Write in No. 570*



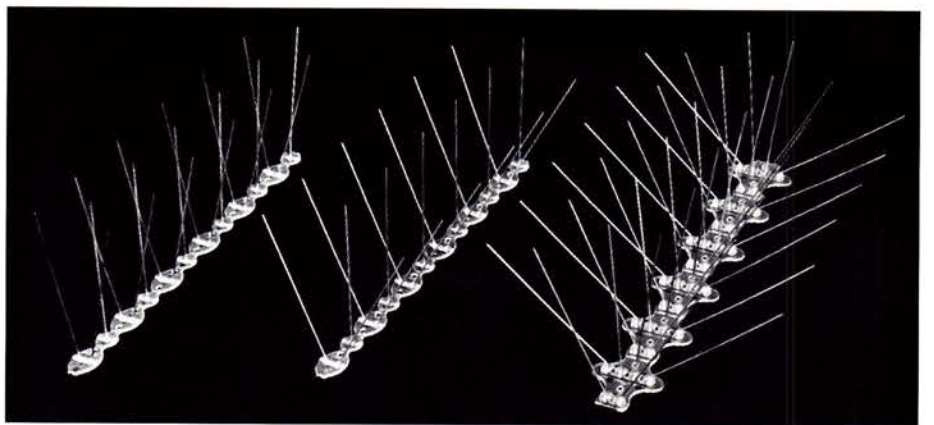
AVIAN FLYAWAY supplied the bird protection for the nation's capitol in Washington, D.C. *Write in No. 8118*



These non-sharp wire spikes from BIRD-X are designed to keep birds from roosting on ledges. *Write in No. 5250*



This ornate classically styled mantel is one of the many models available from UNIQUE MANTEL - SOUTHERN GROUP. *Write in No. 965*



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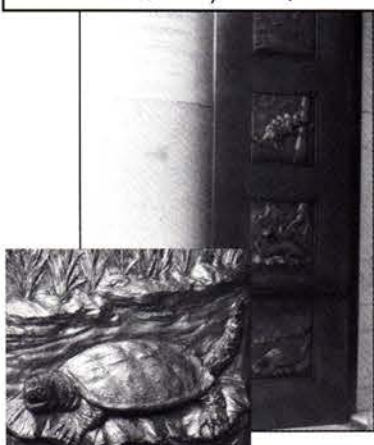
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WRITE IN NO. 2736

Alan LeQuire, Sculptor



Nashville Public Library Doors, 2001 Bronze, each panel 18x18

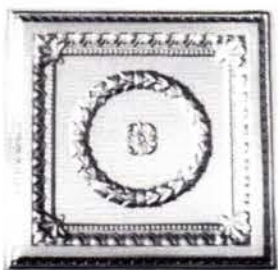
Alan LeQuire is a figurative sculptor, well known in his native southeast for his public commissions and sensitive portraiture. LeQuire works in a variety of sculptural materials, including wood, gypsum, and cast bronze. He has completed a number of architectural, collaborative and site-specific projects since he began accepting commissions in 1981.

Alan LeQuire, Sculptor
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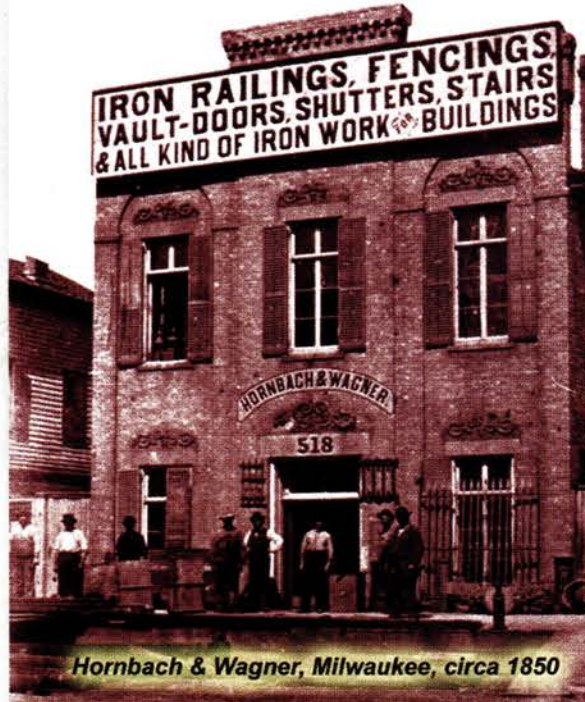
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DIVISION 11 EQUIPMENT & TOOLS



This maple rolling ladder with a custom stain was made by ALACO LADDER; it allows the client to use the higher wall space for storage. *Write in No. 1282*

DIVISION 12 SCULPTURE, ART GLASS, MURALS & FURNISHINGS



ART OF GLASS releaded and restored this ca. 1900 Fanny Sweeney window for the First Presbyterian Church in Philadelphia, Pa. *Write in No. 2695*



This intricate design was carved in white oak by DIMITRIOS KLITSAS - FINE WOOD SCULPTOR. *Write in No. 7580*



Sculptor ALAN LEQUIRE created the 42-ft. statue of Athena, an exact replica of the original by Pheidias, for the replica of the Parthenon in Nashville, Tenn. *Write in No. 5250*



M. SWIFT & SON manufactured the gold used to gild the eyes of four 1-1/2-ton frogs sitting on top of spools on this bridge in Willimantic, Conn.; the gilding was done by Josef Custom Ironworks of Bridgeport, Conn. *Write in No. 2490*



TUCK LANGLAND created this bronze sculpture, "Educators," which stands 9 ft. tall. Serving as an entry archway to the city of Mishawaka, Ind., it sits in Kate's Garden in the city park. *Write in No. 764*

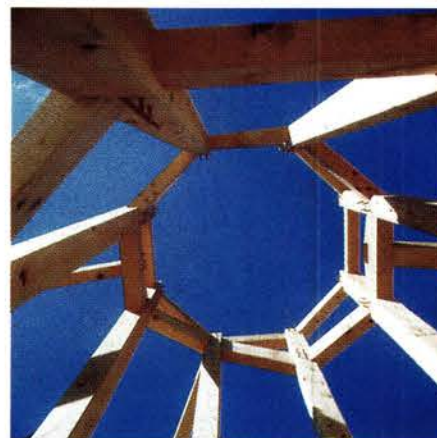


JOHN CANNING PAINTING & CONSERVATION STUDIOS restored the gilding and decorative painting in the drawing room of the 1868 Lockwood-Mathews Mansion in Norwalk, Conn. *Write in No. 5100*



LEHMANN GLASS STUDIO fashioned this cut-glass divider panel, measuring 38x58 in., for the historic J-Bar of the Hotel Jerome in Aspen, Colo. *Write in No. 4750*

DIVISION 13 GAZEBOS, TIMBER FRAMES, CONSERVATORIES, & SPECIAL CONSTRUCTION



Parts of the Dartmouth Skiway Base Lodge in Lyme, N.H., were framed by VERMONT TIMBER FRAMES. *Write in No. 8540*



TIMBERPEG crafted this workroom using dramatic scissor trusses that allow clear spans with no support posts. Call 603-298-8820 for information.



COLUMBIA EQUIPMENT's line of Old Fashioned Style Shelters includes this prefabricated aluminum bus shelter. *Write in No. 5105*



Constructed by RENAISSANCE CONSERVATORIES, this two-story conservatory in Rochester, N.Y., incorporates a copper roof with a glass lantern and glass windows. *Write in No. 578*

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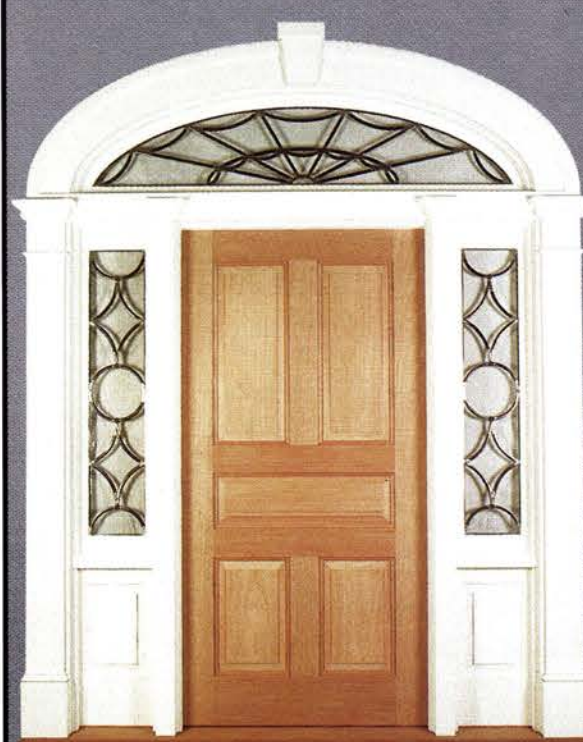
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Glass structures fabricated by OAK LEAF CONSERVATORIES are individually tailored to suit the character of existing buildings. *Write in No. 6860*



GLASS HOUSE's classic gable conservatory features mahogany framing, true divided-lite windows and doors, automated ridge vents, and high-performance glazing. *Write in No. 1870*



This hand-crafted timber-frame structure is the work of CRAFTWRIGHT. *Write in No. 645*



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CITY VISIONS scaled down Callicrates' 5th-century B.C.E. temple of Athena into an 8 x 12-ft. garden house. *Write in No. 9050*



The details on this Georgian-style conservatory from TANGLEWOOD CONSERVATORIES include true divided-lite grillework, decorative aluminum castings, and decorative ironwork. *Write in No. 8270*



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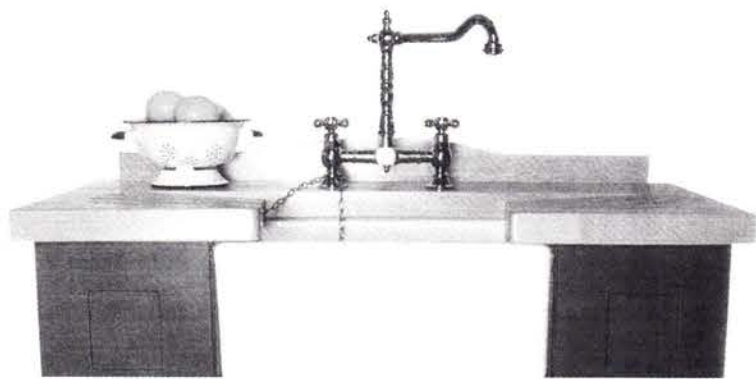
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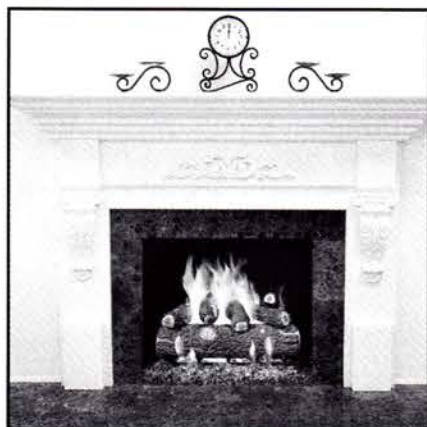
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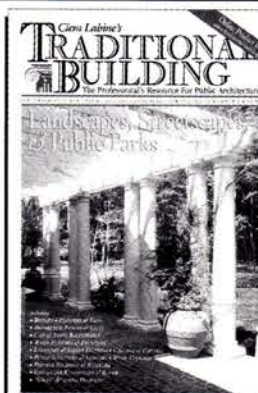
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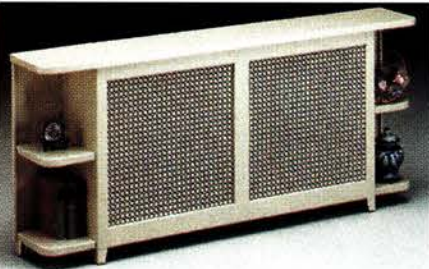
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For full contact information on these companies, consult the SourceList on pp. 19-24.

DIVISION 15 PLUMBING, BATH & HEATING



This ca. 1900 restored marble basin with backsplash and marble skirt, rope brass legs, and glass ball feet is typical of the hard-to-find historic fixtures available from BATHROOM MACHINERIES. Write in No. 1725



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DIVISION 16 LIGHTING & ELECTRICAL



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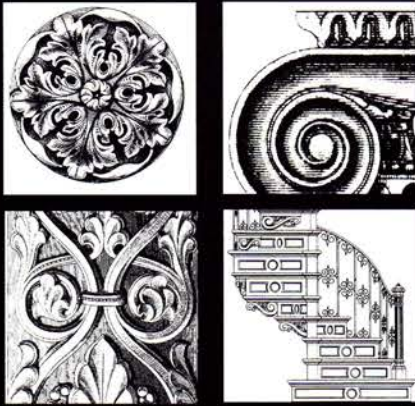


Shown here with a gas light, the Quincy decorative pole was cast in aluminum by ALLOY CASTINGS; it is available in heights of 9 ft. and 10 ft. 7 in. Write in No. 2711



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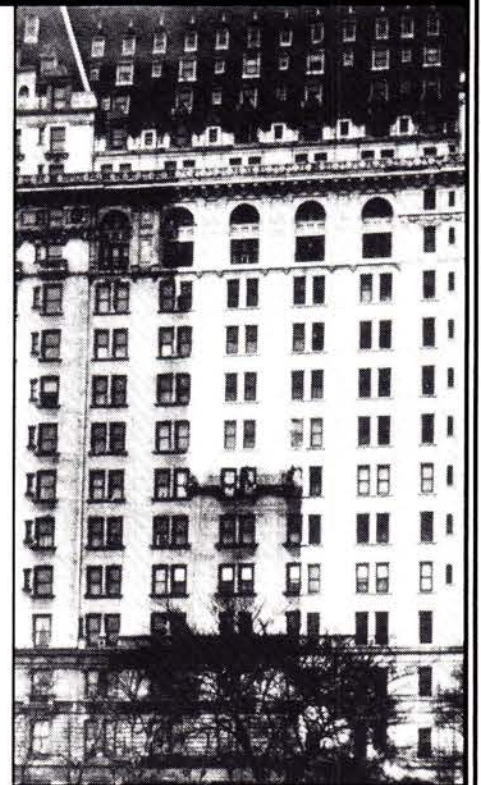
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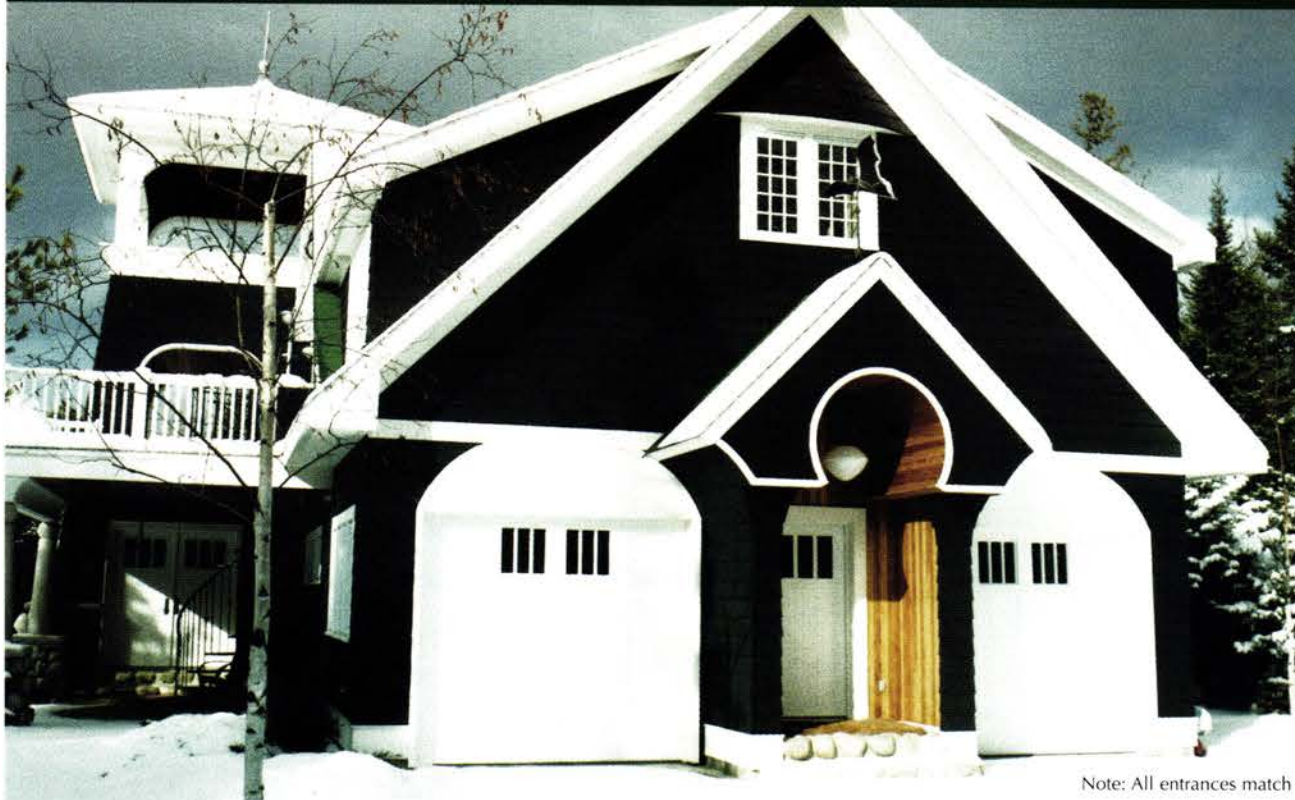
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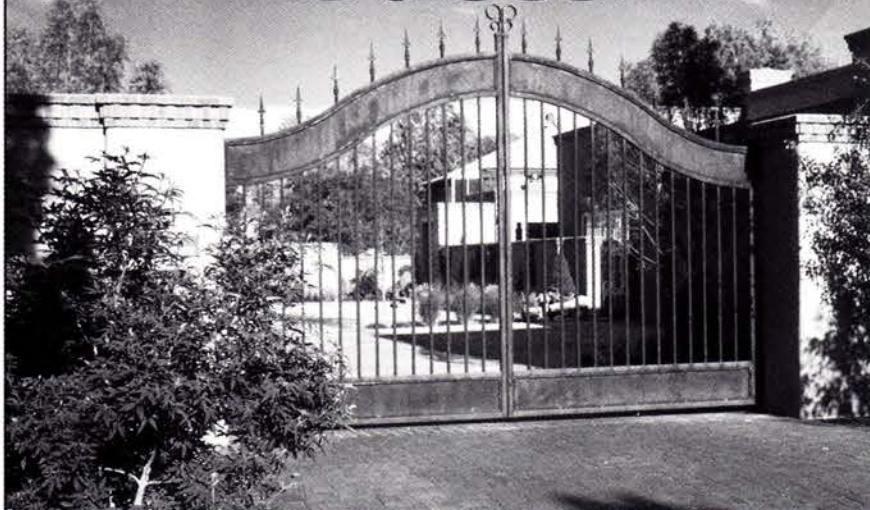


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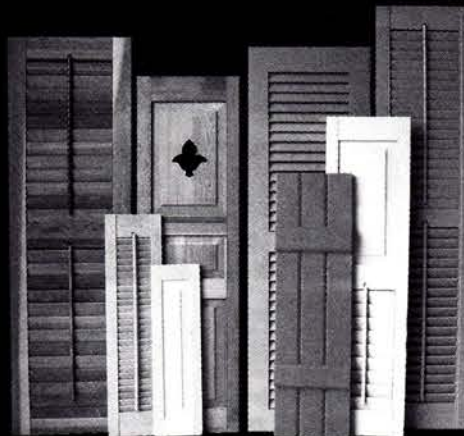
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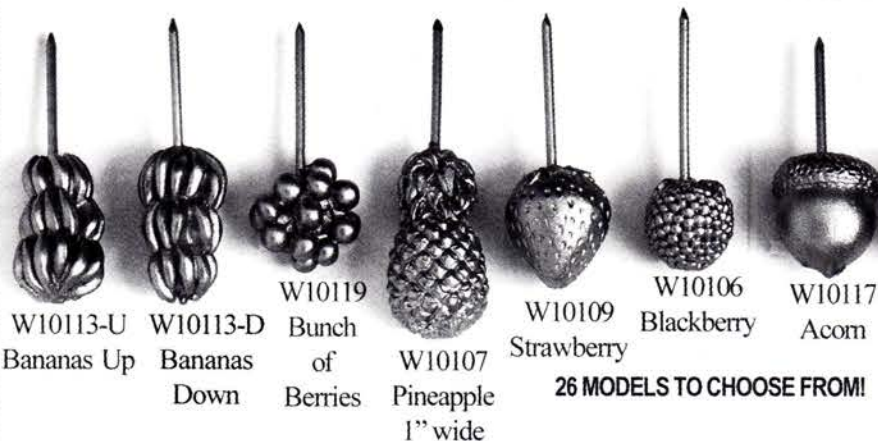
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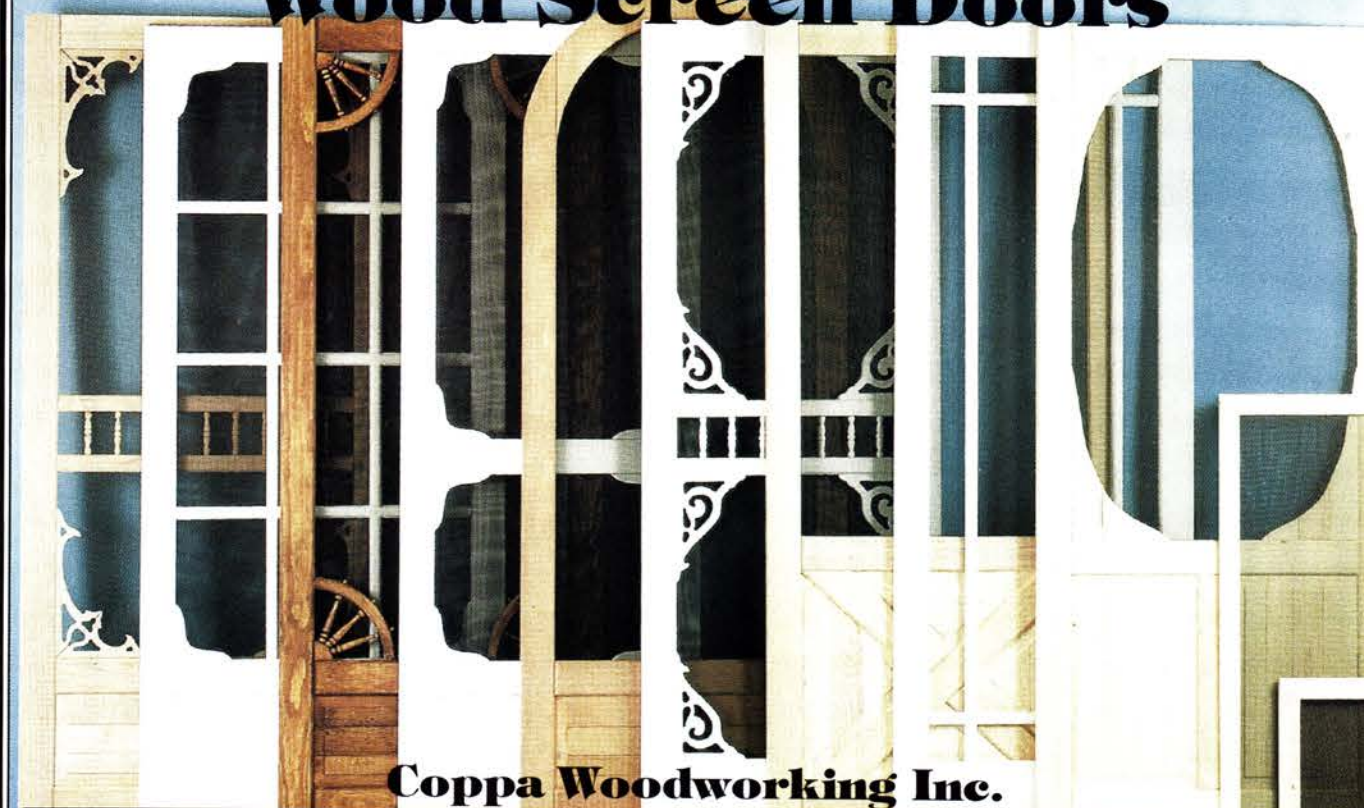
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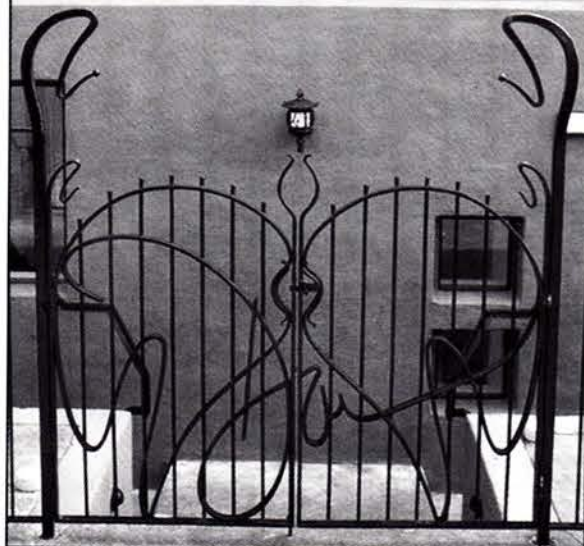
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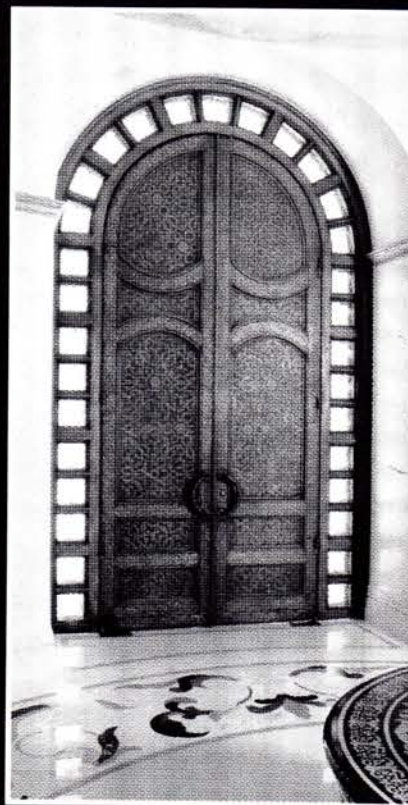
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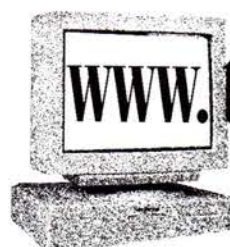


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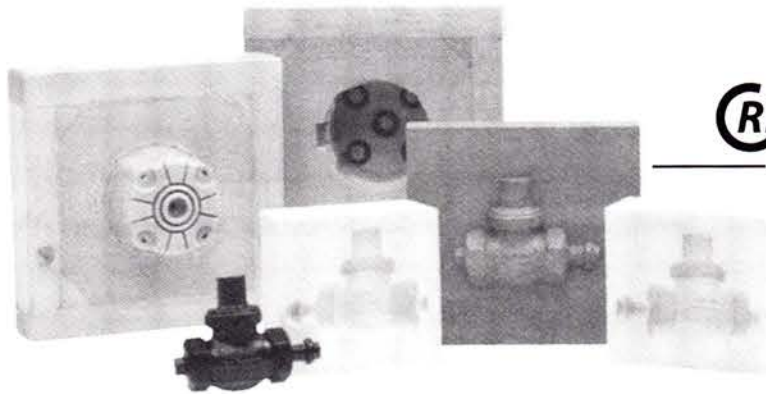
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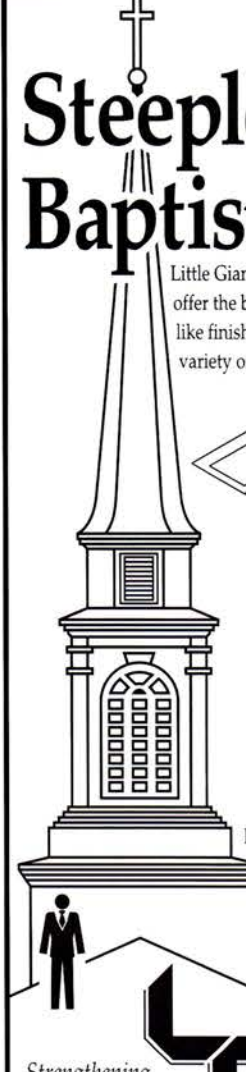
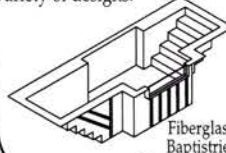
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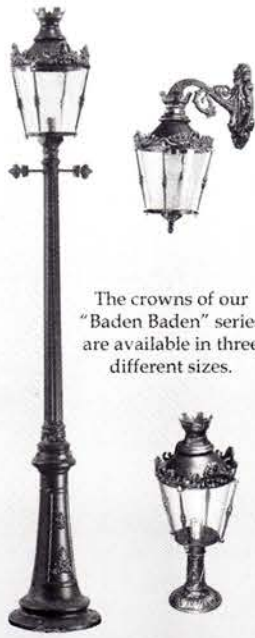
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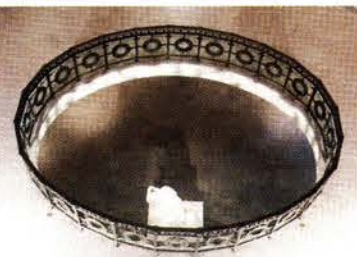
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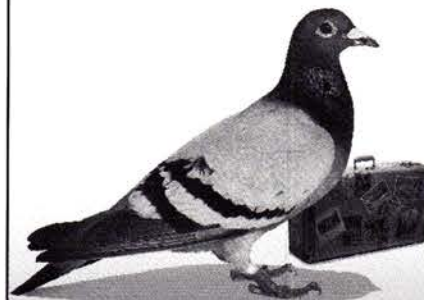
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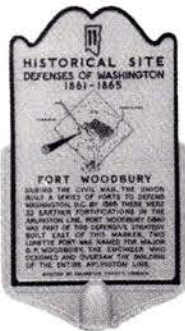
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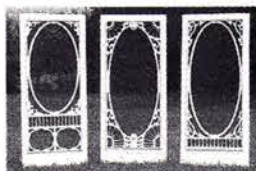
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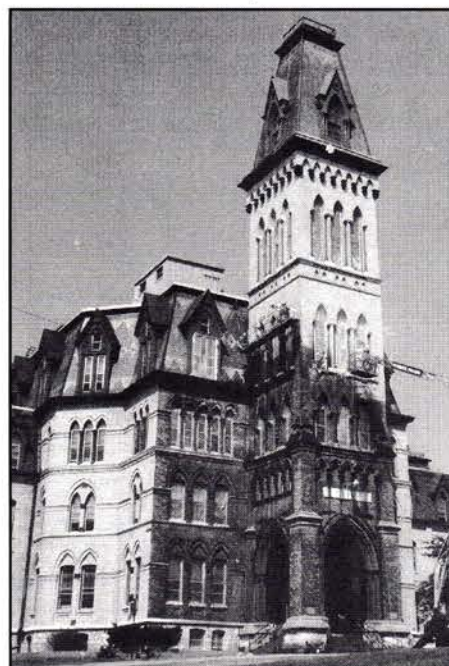
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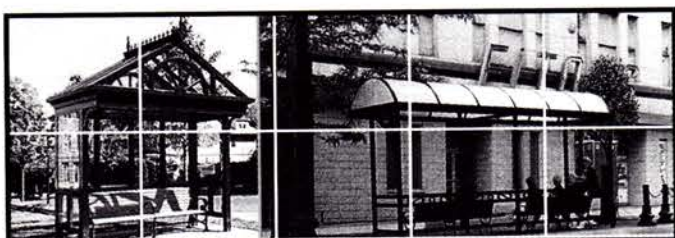
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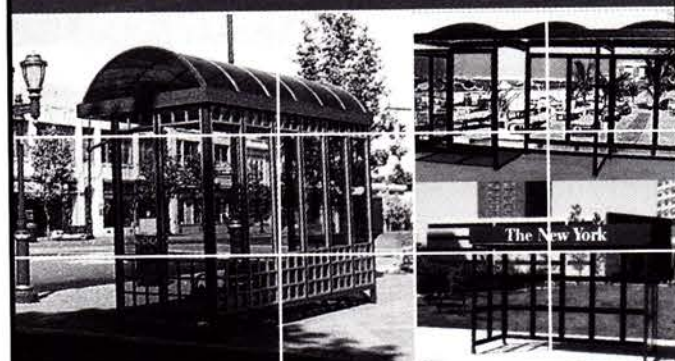
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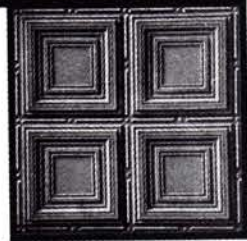
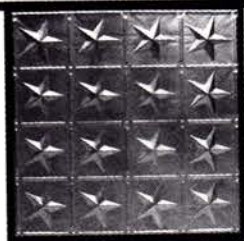
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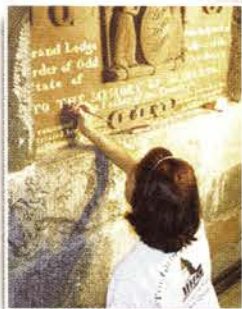
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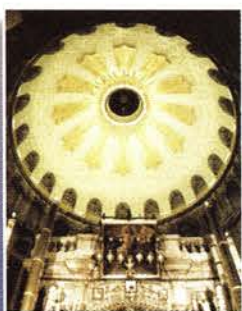
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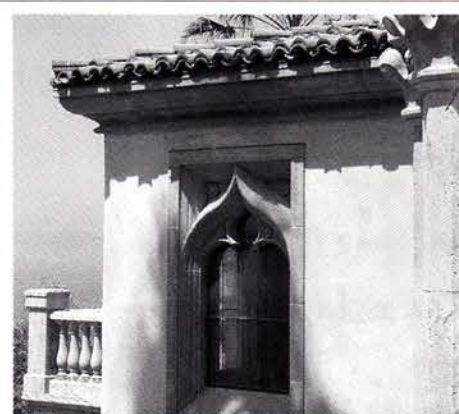
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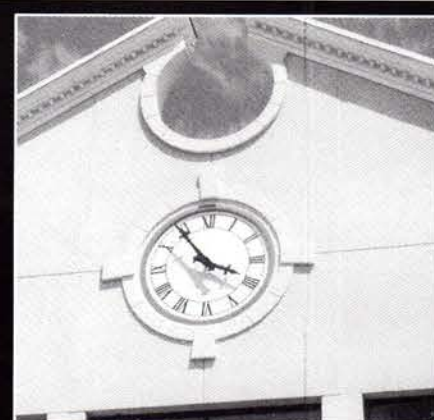
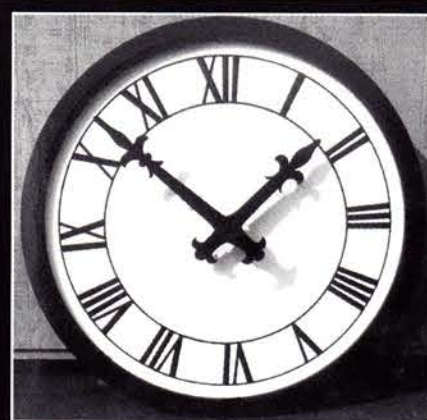
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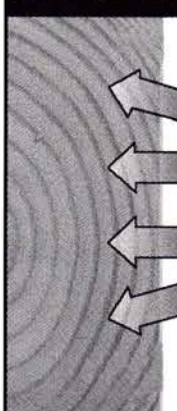


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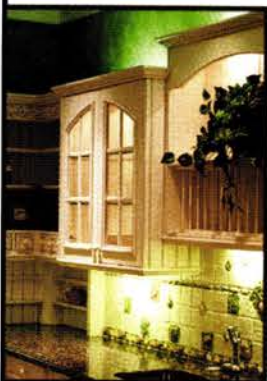
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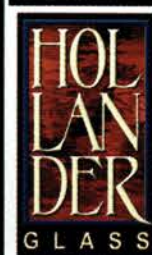
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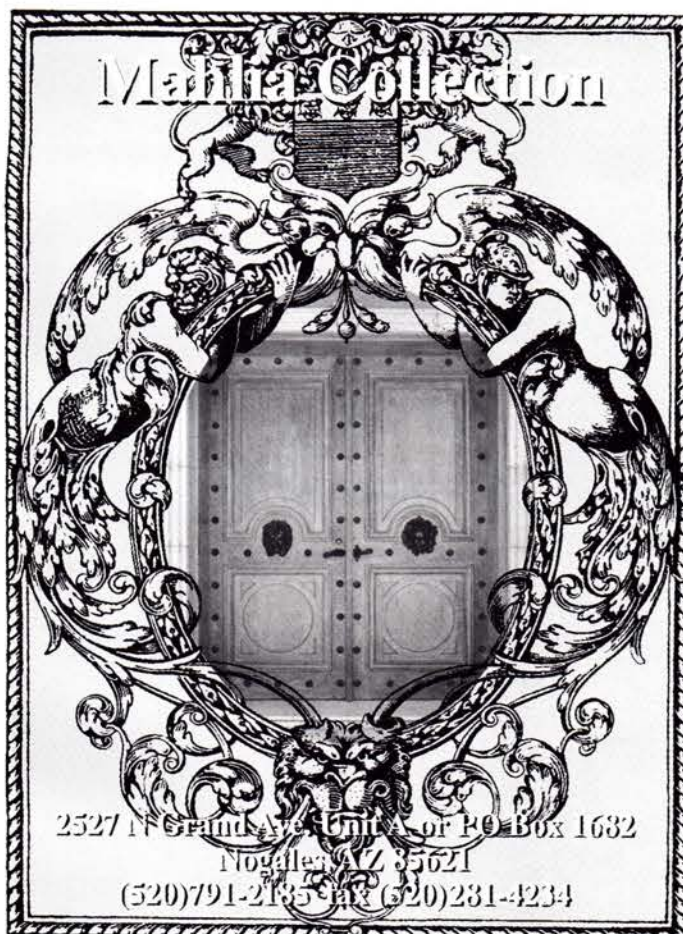
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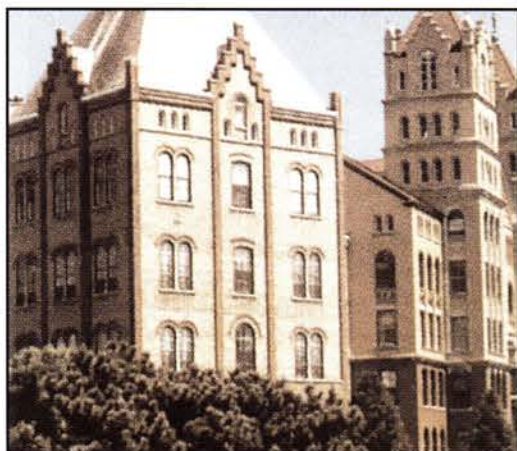
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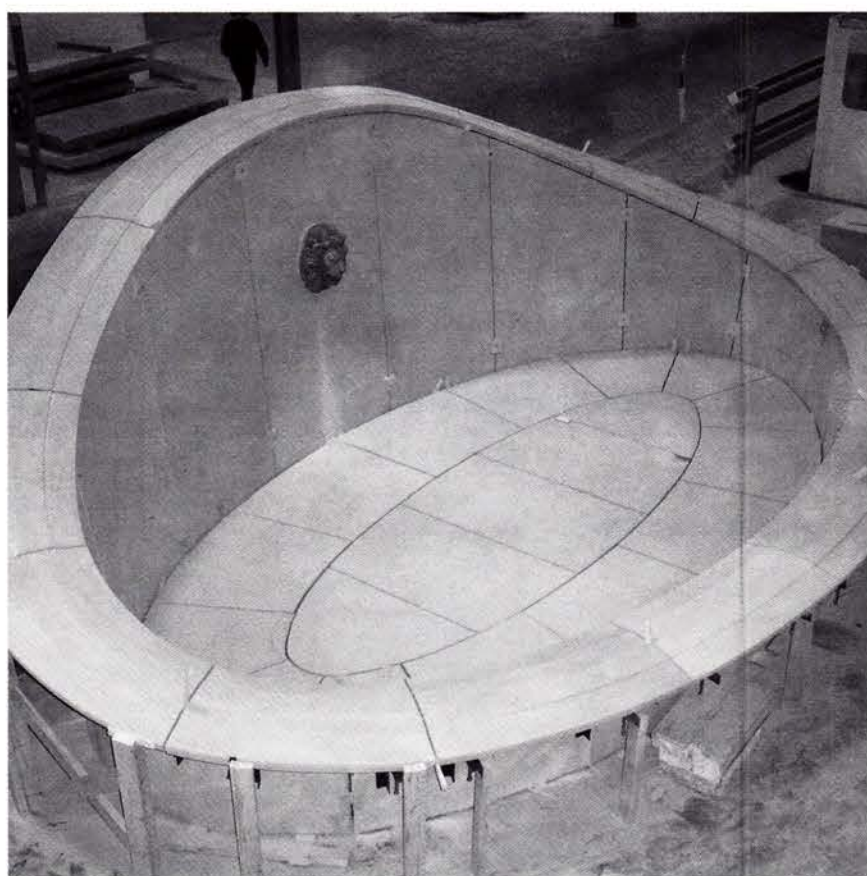
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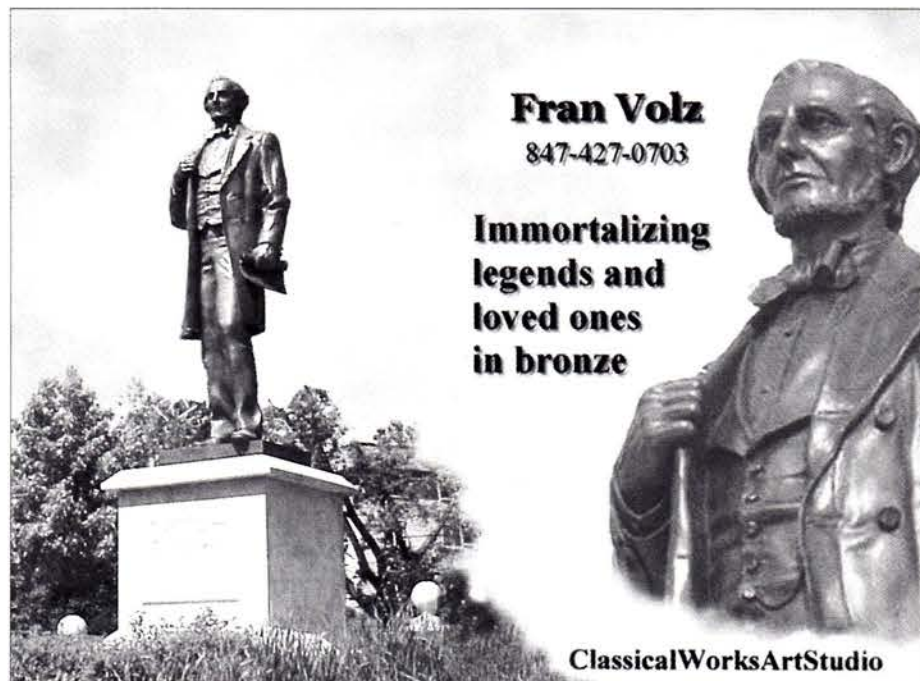
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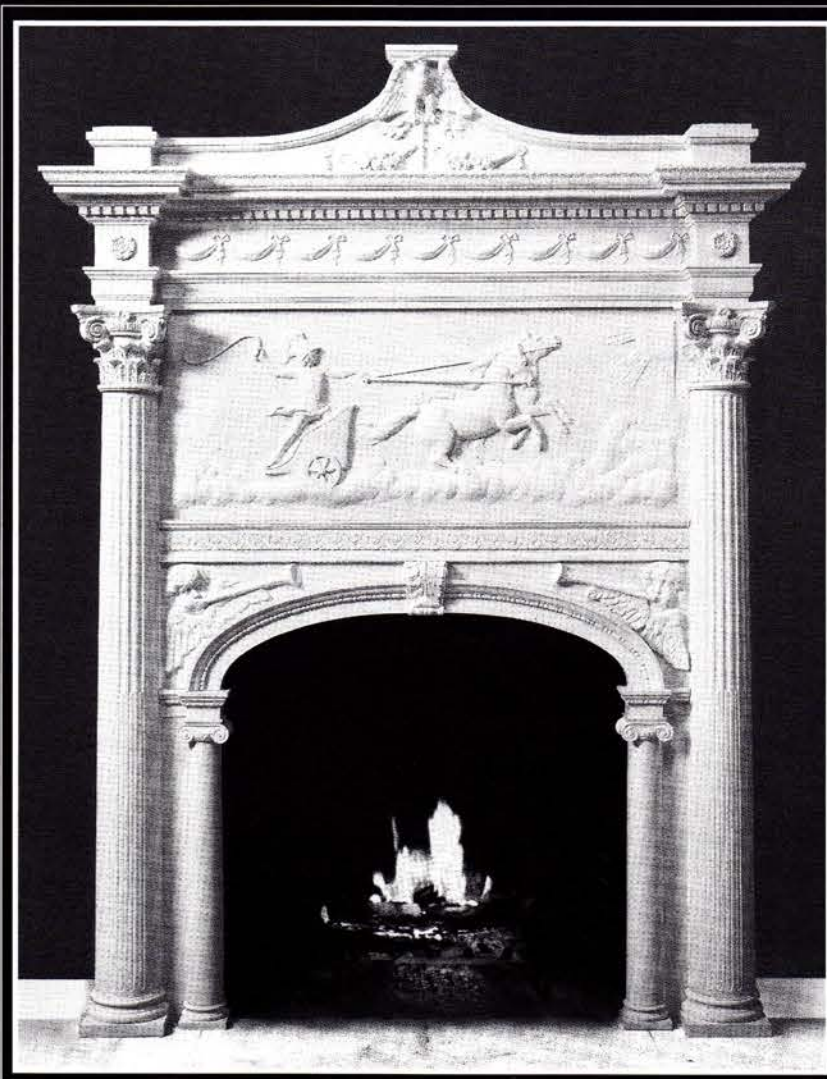
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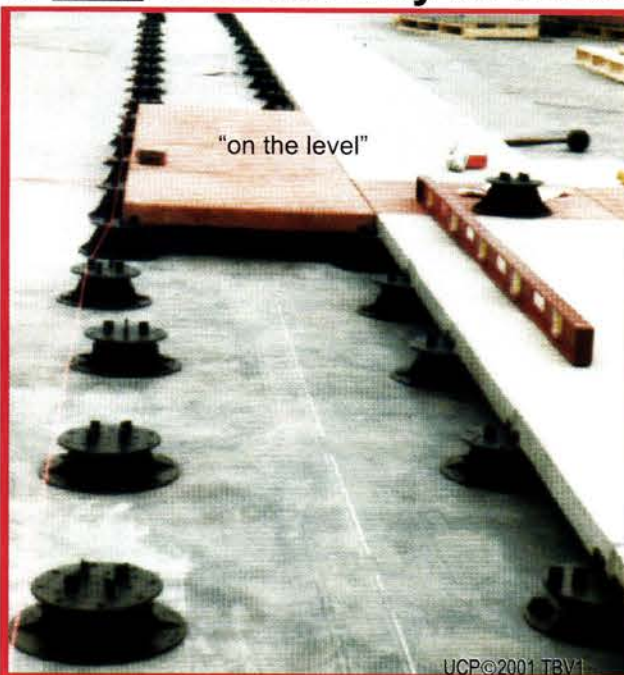


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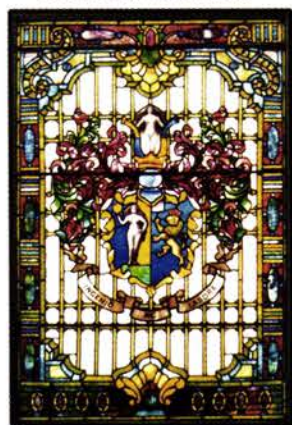


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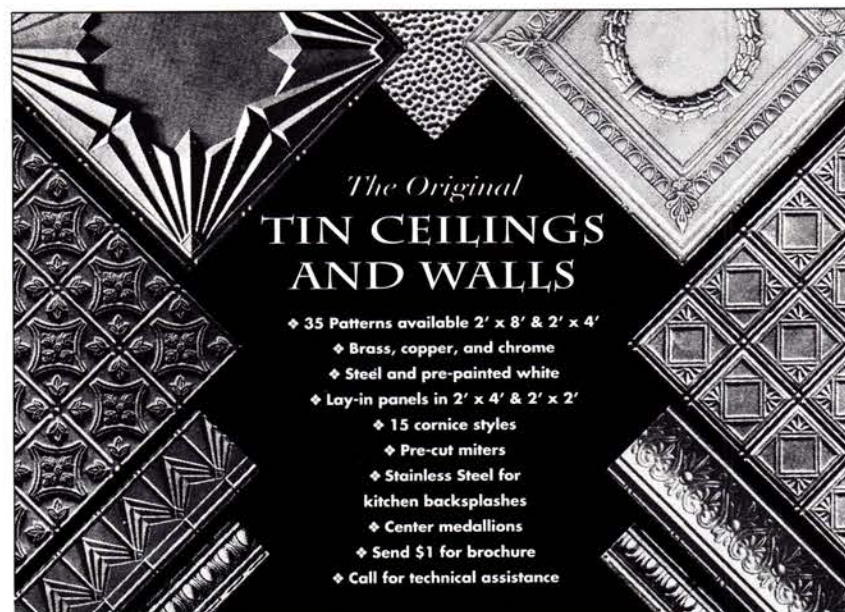
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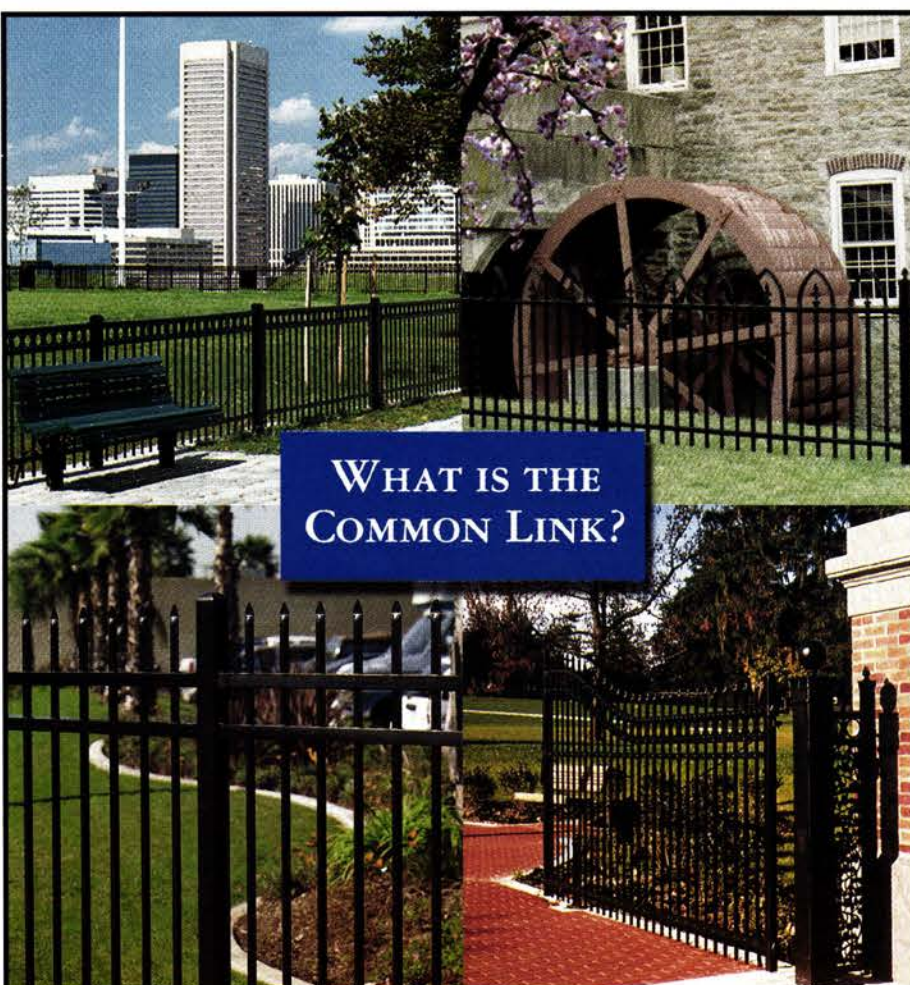
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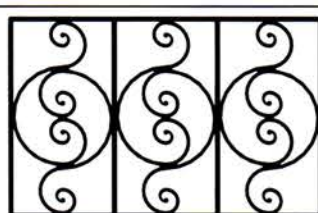


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SPECIFYING CAST STONE

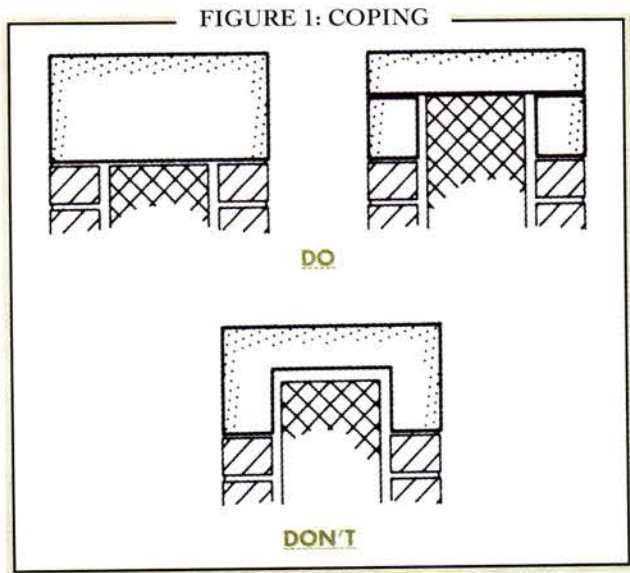
A little knowledge can go a long way toward maximizing the appearance and performance of cast-stone building elements and can also help architects save thousands of dollars on their projects.

by Bill Russell, President, Continental Cast Stone East, by Russell, Inc.

Cast stone is a versatile masonry product that can be used for architectural trim, ornamentation, or functional features. The earliest known use of cast stone was in 1138. The product was first used extensively in London in 1900 and in America around 1920. Since then, cast stone has earned widespread acceptance in the architectural community as a suitable replacement for many masonry materials and for all types of natural-cut building stone.

Cast stone is made from fine and coarse aggregates such as limestone, marble, calcite, granite, quartz, natural sands, Portland cement, mineral

oxide pigments, chemical admixtures, and water. It is not surprising, then, that cast stone is available in any color and can look like limestone, brownstone, bluestone, granite, slate, travertine, or marble. It can match terra cotta or brick and makes a perfect substitute for brick shapes. The use of a high percentage of durable fine aggregate in cast stone creates a very smooth, consistent



texture for building elements. Applications that use cast stone can range from the simplest window sill to the most complicated Classical architecture. The number of profiles and sizes required for any given project can vary from a single shape shown on a sketch to hundreds (or more), not necessarily obvious in a set of architectural contract documents.

an ASTM Standard Specification stipulates what the requirements of the test results must be, as well as the ingredients the product must contain. For example, according to ASTM C 1364 - Standard Specification for Architectural Cast Stone, cast stone is required to have a minimum compressive strength of 6,500 psi and maximum moisture absorption of six percent. It must have a fine-grained texture similar to natural stone, pass a rigorous freeze-thaw test, the dimensions of each unit may not deviate by more than 1/8 in. from approved dimensions, and it is reinforced with billet steel reinforcing bars, unless otherwise specified.

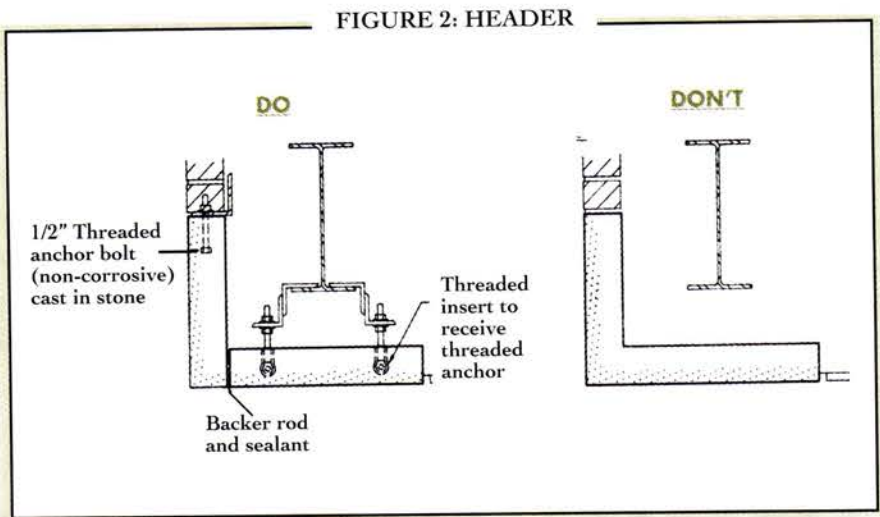
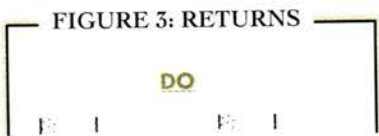
A Special Type of Precast

Since cast stone is a type of architectural precast concrete, the question is often asked: "What is the difference between cast stone and architectural precast concrete?" The answer is that cast stone is used in place of natural stone. As a type of building stone, cast stone is specified under the masonry division 04720 and masonry contractors using standard building stone anchors usually set it. Perhaps most importantly, unless otherwise specified, cast stone looks like natural, dimensional, cut building stone. Upon close examination, the finish of cast stone looks like limestone; some call it a "sugar-cube finish" to distinguish its appearance from the "pebbly with voids" appearance that is normally associated with concrete.

The dense finish is more resistant to weather and dirt and the fine aggregates retain their granular texture through decades of exposure to the elements. Sandblast or chemical retardation finishing methods (normally used in finishing architectural precast concrete panels) are seldom used with cast stone, because they dull the aggregates and fine edges and similar details are lost.

Degrees of Customization

Improvements in the availability and economy of cast stone can almost universally be achieved when the number of special pieces is kept to a minimum. With that in mind, cast-stone projects will generally fit into one of the following categories: standard, semi-custom, or custom, with considerable cost differ-



Other Types of Simulated Stone

Properly manufactured cast stone has the same or stronger physical properties as most natural dimensional building stone and should not be confused with other types of simulated stones. Several stone-like products are manufactured to be used primarily as veneers on other substrate materials such as concrete masonry units. These products are manufactured to meet Construction Specifications Institute (CSI) Division 04730 requirements for simulated stone, while cast stone is manufactured to meet Division 04720 requirements.

There are substantial differences between cast stone and simulated stone. Simulated stone is a lightweight product that is adhered to a structural wall. It can't be used to add to the load-bearing capacity of a masonry wall. Cast stone, however, can, and is usually integrated into the brickwork and becomes part of a composite wall system. In addition, while simulated stone products are light so they will work easily on the exterior of other wall material, cast stone weighs approximately the same as natural-cut limestone.

Cast stone has an ASTM Standard Specification that is substantially different than cultured- or simulated-stone products, which usually reference ASTM Test Methods. Test methods simply dictate how materials are tested;



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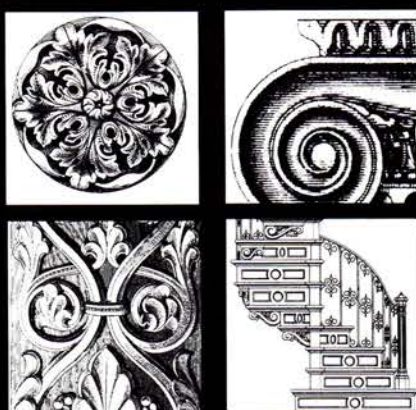
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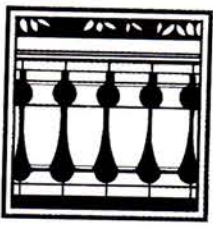
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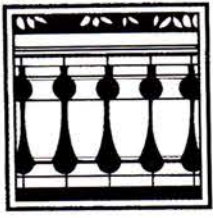


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Cathedral Stone Products — Jahn Mortars 800-684-0901; Fax: 410-782-9155 www.jahnmortars.com Hanover, MD 21076	Manufacturer of Jahn restoration mortar: compatible patching mortars for the repair of any masonry surface; cementitious, non-polymer mortars; breathable at any thickness; easy to apply; standard & custom colors.	Free Write in No. 9580											Cast-Stone Patching & Moldmaking Materials
Classical Works Art Studio 847-427-0703; Fax: Same as phone www.classicalworksartstudio.com Arlington Heights, IL 60005	Sculptor: monumental Greek & Roman statues in cast stone; full scale or larger than life.	Free Write in No. 1380				✓							
Concrete Designs Inc. 800-279-2278; Fax: 520-624-5920 www.concrete-designs.com Tucson, AZ 85713	Manufacturer of over 1,600 precast stone, concrete & GFRC items: mantels, cornice moldings, door & window surrounds, balustrades, columns, capitals, brackets & corbels; stock, custom & antique mantels.	Free Write in No. 5190	✓	✓					✓	✓		✓	Mantels
Continental Cast Stone East by Russell 856-753-4000; Fax: 856-753-8700 www.caststone.net West Berlin, NJ 08091	Manufacturer of all types of architectural cast stone: moldings, arches, cornices, columns, capitals, balustrades & gargoyles; color matching.	Free Write in No. 6940	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Restoration Products & Custom Colors
Continental Cast Stone Mfg., Inc. 800-989-7866; Fax: 913-422-7272 www.continentalcaststone.net Shawnee Mission, KS 66227	Manufacturer of cast-stone architectural products: columns, capitals, balustrades & more; vibrant-dry-tamp method used to get fine-grain texture replicating the look of natural stone; terra-cotta replacements.	Free Write in No. 6940	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	

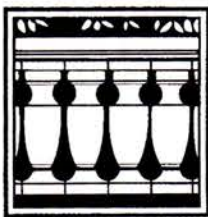


TRADITIONAL BUILDING CAST STONE SourceList

COMPILED BY HADIYA STRASBERG

CSI#04720

COMPANY	SPECIALTY	Literature	Products and Services										Other Products & Services
			Balustrades	Columns	Benches	Sculpture	Stairways	Fountains	Architectural Elements	Pavers	Garden Ornament	Custom Casting	
David Kucera, Inc. 845-255-1044; Fax: 845-255-1597 39 Steves Ln. Gardiner, NY 12525	Architectural-sculpture service: columns; expertise in historic-landmark restoration, new construction (commercial & residential), color matching & fine detail work; site surveys, drafting & engineering services & field support.	Free Write in No. 2517	✓	✓					✓			✓	
Doty & Sons Concrete Products, Inc. 800-233-3907; Fax: 815-895-2884 www.dotyconcrete.com Sycamore, IL 60178	Manufacturer of balustrades & garden furniture: litter receptacles, planters, bollards & custom concrete products; more than 20 bench styles & sizes; ipe lumber, recycled plastic & concrete seats & backs.	Free Write in No. 2090	✓		✓								Litter Receptacles
Enchanted Forest Imports, Inc. 715-547-8000; Fax: 1-715-547-8001 www.enchantedforestimports.com Land O' Lakes, WI 54540	Wholesale supplier of ornamental metal & stonework: pedestals, fountains, gates, fences, street lighting, planters & urns, benches, columns, balustrades, weathervanes & mantels; iron, bronze, cut stone & cast stone.	Free Write in No. 972	✓	✓	✓	✓		✓	✓		✓		
Felber Ornamental Plastering Corp. 800-392-6896; Fax: 610-275-6636 www.felber.net Norristown, PA 19404	Supplier of models & molds: columns, capitals, cornices & medallions; plaster, gypsum & GRG; sculptors, modelmakers & casters on staff; stock & custom.	Free Write in No. 2890		✓					✓			✓	
Fieldstone Center, Inc. 800-633-6075; Fax: 770-483-9255 www.fieldstonecenter.com Conyers, GA 30012	Supplier of stone & masonry products: granite, bluestone, limestone & slate; cast-stone balustrades, keystones, quoins & columns; custom orders.	Free Write in No. 2592	✓	✓					✓	✓		✓	
Florentine Craftsmen, Inc. 800-876-3567; Fax: 718-937-9858 www.florentinecraftsmen.com Long Island City, NY 11101	Supplier of garden ornament & other ornamental metalwork & stonework: freestanding & wall-mounted fountains, statuary, columns, urns, planters, furniture & accessories; weathervanes; lead, aluminum, iron, stone & bronze.	Free Call for more information.		✓	✓	✓		✓			✓		
Fresco Finishes, Inc. 631-244-9500; Fax: 631-218-4848 www.frescofinishes.com Bohemia, NY 11716	Custom fabricator & supplier of all-natural hydraulic limestone finishes: trowel-applied like stucco; reverts to stone upon curing; textured, scored, distressed & pigmented to unlimited range of finishes; cast & sculpted.	Free Write in No. 656											Hydraulic Limestone
Haddonstone (USA), Ltd. 856-931-7011; Fax: 856-931-0040 www.haddonstone.com Bellmawr, NJ 08031	Manufacturer of European-style classical stonework: balustrades, columns, statues & more; cast, reconstructed limestone resembling Portland stone; over 500 designs of architectural & landscape elements; custom-design capabilities.	Free Write in No. 4020	✓	✓	✓	✓		✓	✓	✓	✓		
Hotwire Direct 800-555-4042; Fax: 509-751-1910 www.hotwiredirect.com Clarkston, WA 99403	Manufacturer of computer & manual machines for cutting EPS (expanded polystyrene): coated & applied or cut into plugs (positives) &/or molds for making precast-concrete architectural details.	Free Write in No. 3169											Moldmaking Materials
Imperial Production & Distribution 800-399-7585; Fax: 416-264-6098 www.imperialdesign.on.ca Toronto, ON, Canada M1J 1A1	Supplier of architectural elements: columns, moldings, millwork, doors, mantels, cabinetry & carvings; thousands of pieces; wood, plaster, composites, polymers; tin ceilings & cornices.	Free Write in No. 1407		✓					✓				Mantels
Kaleh Design Collection/Stone 310-289-9746; Fax: 310-289-9749 www.kalehdesign.com West Hollywood, CA 90048	Manufacturer of cast-stone items: planters, pots, urns, jardinières, fireplace mantels, columns, garden objects, fountains & more; frost-freeze resistant.	Free Write in No. 3068	✓	✓					✓			✓	Mantels
Kreier Co., George 215-763-4666; Fax: 215-236-7408 1524 Cambridge St. Philadelphia, PA 19130	Custom fabricator of cast architectural components: FRP, plaster & cements; cupolas, columns, capitals & more; replacement terra-cotta elements; technical & aesthetic problem solving; extensive experience on landmark projects.	Free Write in No. 2780		✓		✓			✓			✓	
Lake Shore Industries, Inc. 800-458-0463; Fax: 814-453-4293 www.lsisigns.com Erie, PA 16502-1624	Manufacturer of signage & plaques: street signs, town seals, historical markers, building letters, fabricated letters, lighted & non-lighted fabricated signs & more; cast metal & stone; 100% custom.	Free Write in No. 8730											Signage & Plaques
Mandish Research International 321-267-2561; Fax: 321-268-1972 www.mandish.com Mims, FL 32754	Manufacturer of composite-fiberglass molds for precast & cast stone: balustrades, bollards, columns, finials, planters, benches, fences, fountains, pavers & mantels; stock & custom.	Free Write in No. 875	✓	✓	✓					✓		✓	Molds for Precast Concrete
Melton Classics 800-963-3060; Fax: 770-962-6988 www.meltonclassics.com Lawrenceville, GA 30045	Manufacturer of cast stone, architectural precast, synthetic stone, GFRC & FRP: color matching of all materials to simulate natural stone; specializing in balustrade systems, columns & cornices.	Free Write in No. 4100	✓	✓			✓	✓	✓	✓			Synthetic Stone & Poly/Marble Balustrade Systems
Milestone Architectural Ornamentation 888-851-3381; Fax: 806-381-6996 www.milestoneltd.com Amarillo, TX 79107	Supplier of hand-cast architectural ornament: ceiling medallions, columns, building panels, statuary, trims, fireplaces & themed environments in limestone; lightweight & highly durable; custom-mold capabilities.	Free Write in No. 493	✓	✓		✓		✓	✓		✓	✓	
Nichols Bros. Stoneworks, Ltd. 800-483-5720; Fax: 425-483-5721 www.nicholsbros.com Maltby, WA 98296	Manufacturer of cast-stone garden furnishings & architectural ornament: planters, containers, fountains, benches & more; the designs of Frank Lloyd Wright.	Free Write in No. 5980		✓	✓			✓	✓		✓		
Northern Stoneworks, Inc. 416-636-3204; Fax: 416-636-3542 www.northernstoneworks.com Toronto, ON, Canada M3J 2R8	Manufacturer of fireplace mantels: hand carved or cast stone; traditional & contemporary designs.	Free											Mantels



TRADITIONAL BUILDING CAST STONE SourceList

COMPILED BY HADIYA STRASBERG

CSI#04720

COMPANY	SPECIALTY	Literature	Products and Services										
			Balustrades	Columns	Benches	Sculpture	Stairways	Fountains	Architectural Elements	Pavers	Garden Ornament	Custom Casting	Other Products & Services
Old World Stoneworks 800-600-8336; Fax: 214-826-3227 www.oldworldstoneworks.com Dallas, TX 75206	Manufacturer of cast-stone fireplace mantels: many styles; for masonry or metal insert fireboxes; technical support for all types of installations; free installation video with purchase.	Free Write in No. 282											Mantels
Petersen Mfg. Co. 800-832-7383; Fax: 712-263-5090 www.petersenmfg.com Denison, IA 51442	Manufacturer of site furniture: tables, benches, waste receptacles, bollards, ash urns & drinking fountains; concrete & steel; specifications for security barriers; custom capabilities.	Free Write in No. 2576			✓								Waste Receptacles, Tables, Bollards, Ash Urns, Planters & Drinking Fountains
Precision Development 713-667-1310; Fax: 713-667-0515 www.pdcaststone.com Houston, TX 77081	Supplier of cast-stone architectural elements: door & window surrounds, column capitals, balustrades, fireplace surrounds; design services.	Free Write in No. 7157	✓	✓			✓	✓	✓	✓		✓	
Smooth-On, Inc. 800-762-0744; Fax: 610-252-6200 www.smooth-on.com Easton, PA 18042	Manufacturer of plastic & rubber compounds: epoxy, polysulfide, polyurethane & silicones; mother-mold material & release agents for moldmaking; epoxy, polymer-modified gypsum & polyurethanes for casting.	Free Write in No. 650											Mold Rubber, Sealers & Release Agents for Moldmaking
Stone Legends 800-398-1199; Fax: 214-398-1293 www.stonelegends.com Dallas, TX 75217	Manufacturer of handmade molded ornament: balustrades, columns, fountains, pavers, steps, signs, wall caps, landscape & garden ornament; custom casting.	Free Write in No. 8630	✓	✓	✓	✓	✓	✓	✓	✓	✓		
THR Cast Stone & GFRC 718-497-9200; Fax: 718-497-3556 www.thrcaststone.com Brooklyn, NY 11237	Manufacturer of molded ornament: columns, capitals, balustrades & more; cast stone & GFRC; pattern restoration, pattern sculpture, color matching, field molds, field surveys, shop drawings & engineering; terra-cotta restoration.	Free Write in No. 545	✓	✓		✓			✓			✓	
Thunderstone 402-420-2322; Fax: 402-420-2542 www.caststone.com Lincoln, NE 68512	Manufacturer of cast-stone units: architecturally correct columns, balustrades & door, window & fireplace surrounds; matching of existing terra-cotta, plaster & natural-stone elements; int./ext. applications.	Free Write in No. 8012	✓	✓				✓	✓	✓		✓	Mantels
Wausau Tile — Terra Paving Products 800-388-8728; Fax: 715-355-4627 www.wausautile.com Wausau, WI 54402	Manufacturer of precast-concrete pavers & terrazzo tiles: matching precast accessories; many colors, textures, finishes & styles; intricate designs, logos & other features placed with water-jet cutting.	Free Write in No. 4120		✓					✓	✓	✓	✓	

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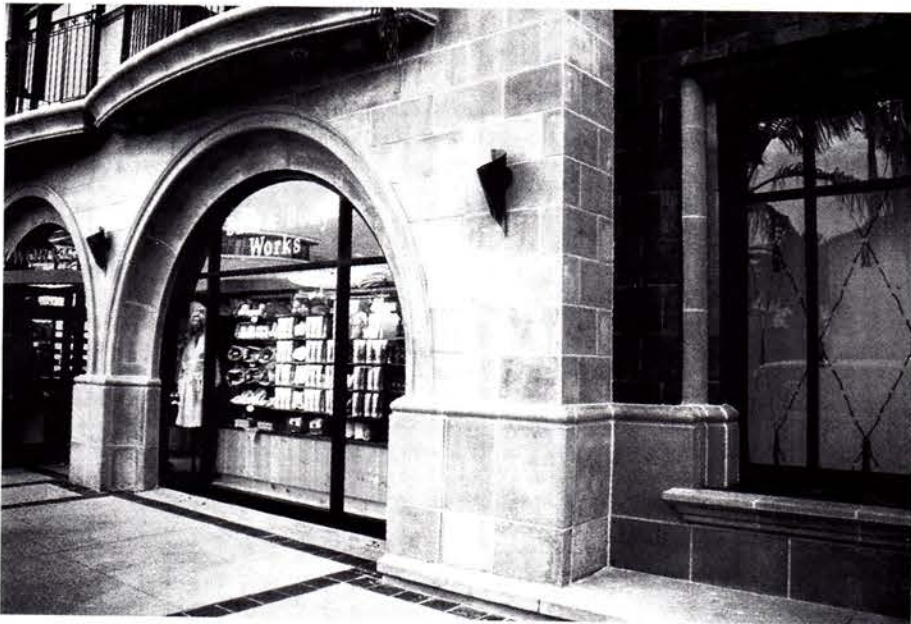
Web Site: <http://www.dotyconcrete.com>

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WRITE IN NO. 2090

CAST STONE PORTFOLIO

For full contact information on these companies, consult the SourceList on pp. 72-74.



The arched window and door of this storefront were created by CONCRETE DESIGNS. *Write in No. 5190*



WAUSAU TILE created these outdoor planters and trash receptacles in cast stone. *Write in No. 8044*



OLD WORLD STONEWORKS' Brunswick fireplace mantel is available in heights of 65-1/2in. or 71-1/2in. *Write in No. 282*



BALL CONSULTING provides GRG, GFRG, and Forton MG materials, products, and technical support. *Write in No. 7260*



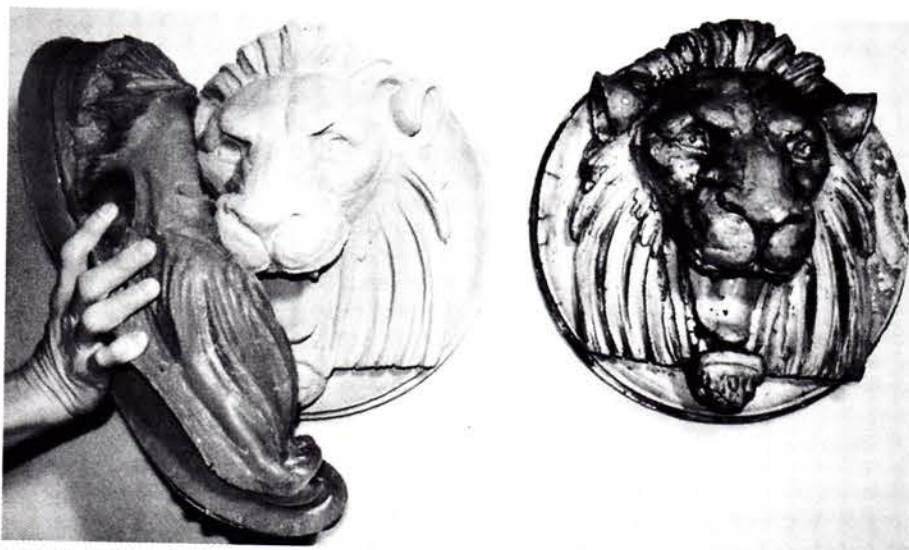
The Roma cast-stone urn, catalog #UR24 from KALEH DESIGN COLLECTION, stands 3-1/2ft. tall and has a 27-1/2-in. dia. *Write in No. 5068*



"The Boulder," a Frank Lloyd Wright reconstituted stone reproduction from NICHOLS BROS. STONEWORKS, measures 12in. tall x 14in. across. *Write in No. 5980*



NORTHERN STONEWORKS of Toronto, Canada, cast this Surface fireplace mantel.



This flexible mold of a lion head was made using ABATRON's polyurethane moldmaking materials. *Write in No. 1500*



"Lady in Bloom," a life-size cast-stone sculpture from BENNETT STUDIO, is displayed in the maternity ward lobby at the Iowa Methodist Medical Center, Des Moines, Iowa.



The Redondo Series of hexagonal concrete planters was designed and manufactured by PETERSEN MFG. *Write in No. 2576*

CAST STONE PORTFOLIO

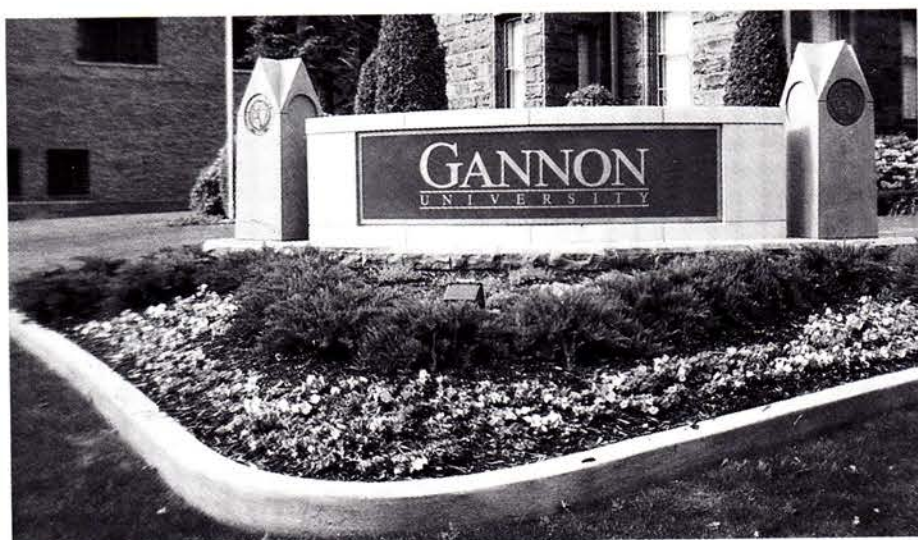
For full contact information on these companies, consult the SourceList on pp. 72-74.



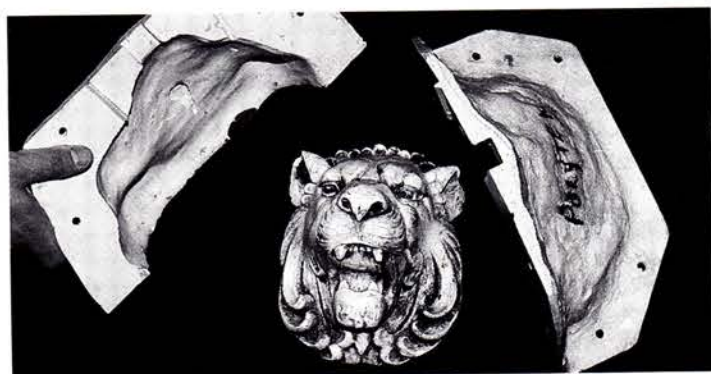
THR CAST STONE & GFRC replicated the 13th-floor terra-cotta balcony of The Ansonia Hotel in NYC using cast stone and GFRC. *Write in No. 545*



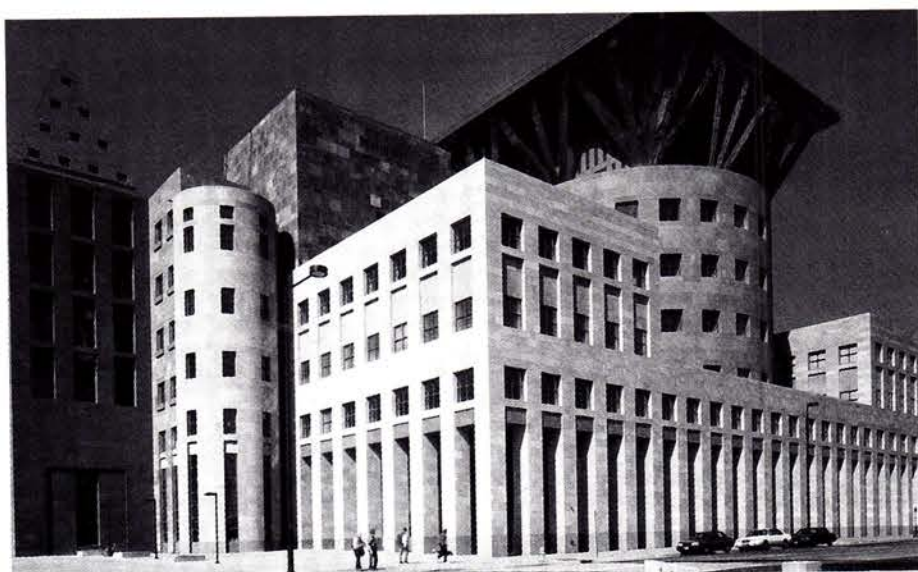
The pedimented entrance to this shopping mall was custom cast by HADDON-STONE. *Write in No. 4020*



LAKE SHORE INDUSTRIES created this plaque for Gannon University of Erie, Pa., in cast stone. *Write in No. 8750*



POLYTEK DEVELOPMENT CORP. used Poly 74-30 poured mold and Poly 15-6 rigid shell to reproduce this lion's head. *Write in No. 6560*



CONTINENTAL CAST STONE manufactured the cast-stone elements used on the facade of The Denver Public Library in Denver, Colo. *Write in No. 6940*



Curved benching with graceful sculptural details was fabricated by GRANICOR for Lower Manhattan's Historic Battery Park City.



This cast-stone statue, with the model in the foreground, was made by CLASSICAL WORKS ART STUDIO, which sculpts monumental Greek and Roman statues. *Write in No. 1580*



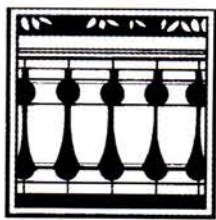
To replace stone or terra-cotta elements, DAVID KUCERA uses cast stone, as in this example, on Riverside Drive in NYC. *Write in No. 2517*



The Morrison model concrete litter receptacle from DOTY & SONS features three litter entries and a hinged steel lid. *Write in No. 2090*



THUNDERSTONE created this retaining wall, incorporating a reproduction of terra-cotta cornices done in cast stone. *Write in No. 8012*



TRADITIONAL BUILDING
CAST BALUSTRADES *SourceList*

COMPILED BY HADIYA STRASBERG

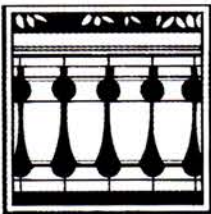
CSI#04720

About the SourceList and Portfolio

To create this *SourceList* and the Portfolio that accompanies it, the Editors contacted suppliers of Cast Balustrades from our database of companies that provide historical products and services to our audience of design and building professionals. From the companies' responses, the Editors selected the

suppliers you'll find below because they provide a good up-to-date cross-section of the market, both geographically and in the variety of their offerings. The Portfolio of products and services available from the companies listed here begins on page 78.

COMPANY	SPECIALTY	Literature	Cast Stone/ Precast Concrete	Fiberglass/FRP	Stone Resin Composites	Other Composites	Other	% Custom
Aarcana Stone 845-986-5645; Fax: Same as phone 14 Ashlee Meadow Warwick, NY 10990	Master stonemason: original & commissioned sculpture; field restoration of sculpture & architectural elements, engineering & installation; moldmaking & stone casting.	Free Write in No. 2721	✓					90%
Architectural Facades Unlimited 408-846-5350; Fax: 408-846-6911 www.architecturalfacades.com Gilroy, CA 95020	Supplier of precast architectural ornament: columns, balustrades, cornices, mantels & fountains; cement, plaster, modified gypsum, GFRC & GRG; on-site drawings, patterning, moldmaking & casting; 15 standard colors.	Free Write in No. 1470	✓				GFRC	50%
Architectural Products by Outwater, LLC 800-835-4400; Fax: 800-835-4403 www.outwater.com Wood Ridge, NJ 07075	Supplier of more than 40,000 ready-to-ship building-component products: int./ext. architectural millwork, columns, decorative moldings & trim, wrought-iron components, hardware, lighting & more.	Free Write in No. 1088					High-Density Polyurethane & PVC	0%
Architectural Reproductions 888-440-8007; Fax: 503-281-6926 www.archrepro.com Portland, OR 97227	Designer of ornamental molds: columns, capitals, cornices & cupolas; GFRC, plaster, cast stone, terra cotta, polymer composites, scagliola & more.	Free Write in No. 6130	✓		✓	✓		95%
Cantera Especial 800-564-8608; Fax: 818-907-0343 www.cantera-especial.com Pacific Palisades, CA 90272	Supplier of machine- & hand-carved products made from Cantera & Adoquinstone, limestone & sandstone quarried from Mexico & Europe: fountains, fireplace surrounds, columns, balustrades, pavers, urns & more; cast-stone elements.	Free Write in No. 31	✓					100%
Classic Heritage 630-543-9058; Fax: 630-543-1258 www.classicheritage.com Addison, IL 60101	Supplier of molded ornament: columns, porch parts, exterior shutters, cornice moldings & balustrades in cast-stone.	Free Write in No. 1192	✓					10%
Concrete Designs Inc. 800-279-2278; Fax: 520-624-5920 www.concrete-designs.com Tucson, AZ 85713	Manufacturer of over 1,600 precast stone, concrete & GFRC items: mantels, cornice moldings, door & window surrounds, balustrades, columns, capitals, brackets & corbels; stock, custom & antique mantels.	Free Write in No. 5190	✓			✓		25%
Continental Cast Stone Mfg., Inc. 800-989-7866; Fax: 913-422-7272 www.continentalcaststone.net Shawnee Mission, KS 66227	Manufacturer of cast-stone architectural products: columns, capitals, balustrades & more; vibrant-dry-tamp method used to get fine-grain texture replicating the look of natural stone; terra-cotta replacements.	Free Write in No. 6940	✓					100%
Enchanted Forest Imports, Inc. 715-547-8000; Fax: 1-715-547-8001 www.enchantedforestimports.com Land O' Lakes, WI 54540	Wholesale supplier of ornamental metal & stonework: pedestals, fountains, gates, fences, street lighting, planters & urns, benches, columns, balustrades, weathervanes & mantels; iron, bronze, cut stone & cast stone.	Free Write in No. 972	✓		✓			5%
Fibertech Corp. 864-654-2300; Fax: 864-654-7275 www.fibertech.net Clemson, SC 29631	Manufacturer of fiberglass architectural elements: standard & custom; window surrounds, panels, balustrades, brackets, spheres, domes, columns, cornices & other decorative specialty items.	Free Write in No. 23		✓		✓	High-Density Polyurethane	50%
Fieldstone Center, Inc. 800-633-6075; Fax: 770-483-9255 www.fieldstonecenter.com Conyers, GA 30012	Supplier of stone & masonry products: granite, bluestone, limestone & slate; cast-stone balustrades, keystones, quoins & columns; custom orders.	Free Write in No. 2592	✓					75%
Goodwin Associates 585-248-3320; Fax: 585-387-0153 www.goodwinassociates.com Rochester, NY 14618	Supplier of architectural products: cornice moldings, columns, capitals, balustrades, door & window surrounds, ceiling medallions, niches, domes, brackets, corbels & more; polyurethane, FRP & hardwood millwork.	Free Write in No. 806		✓				50%
Haddonstone (USA), Ltd. 856-931-7011; Fax: 856-931-0040 www.haddonstone.com Bellmawr, NJ 08031	Manufacturer of European-style classical stonework: balustrades, columns, statues & more; cast, reconstructed limestone resembling Portland stone; over 500 designs of architectural & landscape elements; custom-design capabilities.	Free Write in No. 4020	✓					25%
Mandish Research International 321-267-2561; Fax: 321-268-1972 www.mandish.com Mims, FL 32754	Manufacturer of composite-fiberglass molds for pre-cast & cast stone: balustrades, bollards, columns, finials, planters, benches, fences, fountains, pavers & mantels; stock & custom.	Free Write in No. 875					Molds for Balustrades	50%
Manor Style, Ltd. 800-325-2188; Fax: 410-298-0848 6741 Whitestone Rd. Baltimore, MD 21207	Supplier of molded ornament: cornice moldings, columns & capitals, door & window surrounds, ceiling medallions, niches & domes, brackets, corbels & balustrades; polystyrene, polyurethane, PVC, FRP & cultured marble/resin.	Free Write in No. 703		✓	✓		Polystyrene, Polyurethane & PVC	50%
Melton Classics 800-963-3060; Fax: 770-962-6988 www.meltonclassics.com Lawrenceville, GA 30045	Manufacturer of balustrades, columns & architectural ornament: synthetic stone, resin/marble composite, cast stone, fiberglass or polyurethane; lightweight, low maintenance balustrades & radius designs offered.	Free Write in No. 4100	✓	✓	✓	✓		50%



TRADITIONAL BUILDING CAST BALUSTRADES *SourceList*

COMPILED BY HADIYA STRASBERG

CSI#04720

COMPANY	SPECIALTY	Literature	Cast Stone/ Precast Concrete	Fiberglass/FRP	Stone Resin Composites	Other Composites	Other	% Custom
Seal Reinforced Fiberglass, Inc. 631-842-2230; Fax: 631-842-2276 23 Bethpage Rd. Copiague, NY 11726	Supplier of garden pools, waterfalls, planters & rock features: FRP building components, cornices, cupolas, columns, balustrades & brackets; full-service mold & tool fabricator; on-site molds.	Free Write in No. 4620 for Cornices; 1353 for Cupolas		✓				90%
Smooth-On, Inc. 800-762-0744; Fax: 610-252-6200 www.smooth-on.com Easton, PA 18042	Manufacturer of plastic & rubber compounds: epoxy, polysulfide, polyurethane & silicones; mother-mold material & release agents for mold-making; epoxy, polymer-modified gypsum & polyurethanes for casting.	Free Write in No. 650						0%
Stone Legends 800-398-1199; Fax: 214-398-1293 www.stonelegends.com Dallas, TX 75217	Manufacturer of handmade molded ornament: balustrades, columns, fountains, pavers, steps, signs, wall caps, landscape & garden ornament; custom casting.	Free Write in No. 8630	✓					20%
Stonex Cast Products, Inc. 732-938-2334; Fax: 732-919-0918 www.stonexonline.com Farmingdale, NJ 07727	Manufacturer of cast-stone architectural elements: baluster & rail systems, quoins, window sills & surrounds, wall copings, splash blocks, pier caps & more; 8 styles of balusters; curved railings.	Free Write in No. 507	✓					50%
THR Cast Stone & GFRC 718-497-9200; Fax: 718-497-3556 www.thrcaststone.com Brooklyn, NY 11237	Manufacturer of molded ornament: columns, capitals, balustrades & more; cast stone & GFRC; pattern restoration, pattern sculpture, color matching, field molds, field surveys, shop drawings & engineering; terra-cotta restoration.	Free Write in No. 545	✓			✓		90%
Timeless Architectural Reproductions, Inc. 800-665-4341; Fax: 770-205-1447 www.timelessarchitectural.com Cumming, GA 30041	Manufacturer of architectural ornament: columns, decorative capitals, pilasters, balustrades & more; classically designed; polyester resin, fiberglass & cultured marble composite; custom casting; technical & installation support.	Free Write in No. 1414		✓	✓	✓		100%

CAST BALUSTRADES PORTFOLIO

For full contact information on these companies, consult the SourceList on p. 77 and above.



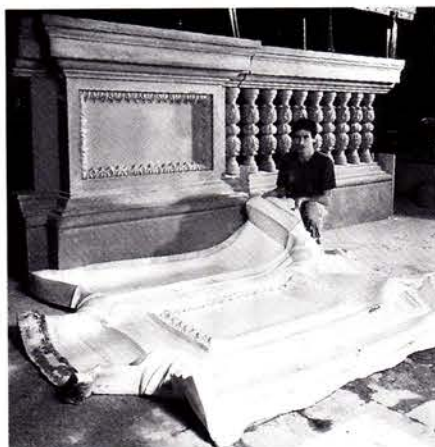
Visitors to the Atlanta White House will see a building adorned with hand-finished roof-top balusters created by TIMELESS ARCHITECTURAL REPRODUCTIONS. *Write in No. 1414*



FIELDSTONE CENTER supplied this cast-stone balustrade. *Write in No. 2392*



Balusters are available from STONEX in all styles and many different sizes. *Write in No. 507*



SMOOTH-ON manufactured the liquid rubber used to make this pier and balustrade assembly mold. *Write in No. 650*



GOODWIN ASSOCIATES supplies architectural elements such as the cast balustrade for this balcony. *Write in No. 806*



MANDISH RESEARCH INT'L. produces over 115 composite fiberglass molds for casting balustrades and columns. *Write in No. 875*



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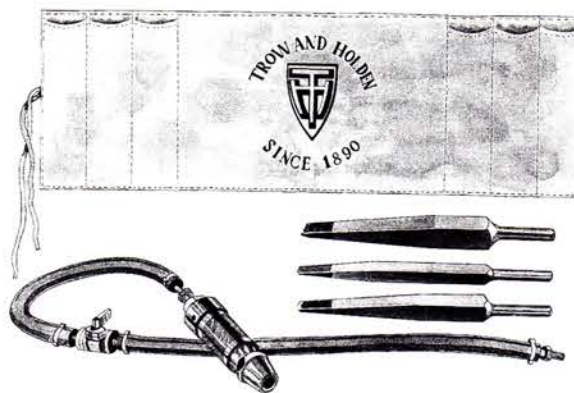
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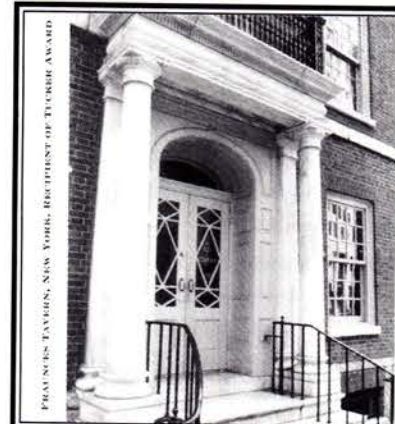
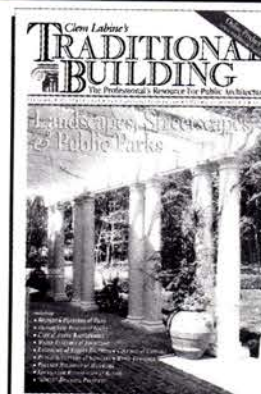
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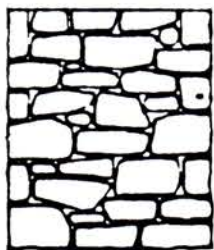
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TRADITIONAL BUILDING *SourceList* NATURAL BUILDING STONE

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CSI#0440

COMPANY	SPECIALTY	Literature	Types of Stone						Forms of Stone							
			Limestone	Marble	Granite	Slate	Sandstone	Other types	Rough	Split-Face	Dimensional/Cut	Machine Cut	Carved	Flooring	Building	Other forms
Jean Pierre Jacquet Stonecarver 952-925-5543; Fax: 952-929-2301 www.handcarvedstone.com Minneapolis, MN 55436	Custom fabricator of hand-carved stonework: domestic & French limestone; statuary, fireplaces, fountains & urns; restoration, reproduction & custom design of architectural decoration; religious, public & residential projects.	Free Write in No. 982	✓	✓	✓		✓		✓	✓	✓	✓	✓	✓	✓	
Keys Granite, Inc. 305-477-7363; Fax: 305-477-5081 www.keysgranite.com Miami, FL 33172	Importer & distributor of natural building stone (granite): slab, tile or cut to size.	Free	✓	✓	✓			Travertine, Onyx & Quartzite			✓			✓		Slabs, Tiles & Cut to Size
Kronenberger & Sons Restoration 860-347-4600; Fax: 860-343-0309 www.kronenbergersons.com Middletown, CT 06457	Contractor for interior & exterior restoration: all types of finishes; post-&-beam construction, windows, moldings & roofs; masonry & wood; museums, churches, town halls, libraries, barns, period homes & outbuildings.	Free Write in No. 536						Restoration								
Limestone Concept, Inc. 310-278-9829; Fax: 310-278-9651 www.limestoneconcept.com Los Angeles, CA 90035	Custom fabricator & distributor of limestone fireplaces, fountains, columns, balustrades, capitals, mantels, benches, ornament, garden statuary, sculpture, planters & urns; French limestone slabs & tiles; antique terra cotta.	Free Write in No. 5390	✓										✓			
Maine Millstones 207-633-6091; Fax: 207-633-6095 www.mainemillstones.com West Southport, ME 04576	Manufacturer of hand-carved traditional granite millstones: all sizes & patterns; half-millstones for door steps; custom-carved posts & other architectural ornament on request.	Free Write in No. 4440			✓								✓			
Marble Classics 410-265-6670; Fax: 410-265-6672 www.marbleclassics.net Baltimore, MD 21207	Spanish distributor of natural stone products: marble, limestone, sandstone & other stone; mantels, columns, capitals, balusters, fountains, statuary, monuments, stairs, cornices & more; all custom made; fabricators in Spain.	Free Write in No. 1126	✓	✓	✓		✓					✓	✓			Slabs & Tiles Cut to Size; Specialty Items
Natl. Training Cntr. for Stone & Masonry 407-834-4800; Fax: 407-834-6610 www.ntc-stone.com Longwood, FL 32750	Organization: provides stonework & masonry training & consultation; related publications.	Free						Training, Consulting & Publications								Training & Seminars
North Carolina Granite Corp. 800-227-6242; Fax: 336-786-6984 www.ncgranite.com Mount Airy, NC 27030	Quarrier of granite: mantels, memorials, pavers, plazas, garden curbs & other landscaping.	Free			✓				✓	✓	✓	✓		✓	✓	Garden Curbs & Memorials
Pasvalco 800-222-2133; Fax: 201-768-5927 www.pasvalco.com Closter, NJ 07624	Custom fabricator & supplier of cut-stone moldings, panels & related fabricated stone products: limestone, brownstone, granite, marble, bluestone & quartzitic sandstone; exact matching of replacement stone for landmark buildings.	Free	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	
Pellettieri Stonecarving 212-987-2343; Fax: Same as phone www.geocities.com/chrisstonecarver New York, NY 10128	Custom fabricator of stonecarving/sculpture: figures & architectural ornament in limestone, marble & sandstone; baptismal fonts, pulpits, tombs & inscriptions; 100% custom.	Free Write in No. 881	✓	✓			✓						✓			
Petrillo Stone Corp. 914-668-8561; Fax: 914-668-8533 610 S. Fulton Ave. Mount Vernon, NY 10550	Custom fabricator, supplier & installer of hand-carved natural-stone capitals: columns, balusters, fireplaces & benches; any stone, size & shape; since 1907.	Free	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	Any Natural Stone of Any Size or Thickness
Robert Young & Sons, Inc. 973-483-0451; Fax: 973-483-0185 25 Grafton Ave. Newark, NJ 07104	Supplier of dimensional-cut & hand-carved limestone, marble & granite: new & restoration projects; hand-carved fireplaces, sculpture, columns & furniture; architectural & ecclesiastical stonework.	Free Write in No. 3122	✓	✓	✓	✓	✓		✓	✓	✓		✓		✓	
Rockworks, LLC. 248-693-0920; Fax: 248-693-2057 www.rockworkllc.com Lake Orion, MI 48360	Designer & fabricator of indoor & outdoor natural-stone water features: commercial installations of waterfalls, streams & rock features, single water-feature focal points & hand-carved garden art & accessories.	Free Write in No. 1111											✓			
Rossato Giovanni, srl/ Vicenza Stone Sculpture 011+39-0444-928499; Fax: +39-0444-928711 www.vicenzastone.com 36100 Vicenza, Italy, IT MVI 002134	Manufacturer of hand carvings: classic statues, fountains, fireplaces, consoles, columns, bench-seats, balls, pineapples, balustrades, vases, putti, planters, urns, gazebos, decorative elements & more in Vicenza stone.	Free Write in No. 6110	✓								✓		✓			
Rossi USA Corp. 708-386-0183; Fax: 708-386-0186 1750 S. Des Plaines Ave. Forest Park, IL 60130	Quarrier & fabricator of French limestone: flooring & fountains; dimensional, cut, paving tiles & slabs & natural building stone.	Free Write in No. 392	✓							✓	✓		✓	✓	✓	Paving
Stone Legends 800-398-1199; Fax: 214-398-1293 www.stonelegends.com Dallas, TX 75217	Manufacturer of handmade molded ornament: balustrades, columns, fountains, pavers, steps, signs, wall caps, landscape & garden ornament; custom casting.	Free Write in No. 8630	✓	✓	✓	✓					✓	✓	✓	✓	✓	
Stonesculpt 650-575-9683; Fax: 650-322-5002 www.customstonecarving.com Palo Alto, CA 94303	Provider of custom hand carving in natural stone: fireplace mantels, sculpture, fountains, monuments, signage, landscape & other architectural ornament; traditional or contemporary styles.	Free Write in No. 371	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓			
Stuart Simpson Stone Carving 512-389-9789; Fax: 512-451-3168 4608 Laurel Canyon Dr. Austin, TX 78731	Manufacturer of hand-carved architectural & sculptural elements: native stones; figurative relief carvings & three-dimensional sculpture; all sizes; from photos & drawings.	Free	✓	✓		✓		Alabaster	✓	✓	✓	✓	✓			Relief Carvings; All Architectural Carvings
Trow & Holden 800-451-4349; Fax: 802-476-7025 www.trowandholden.com Barre, VT 05641	Manufacturer of stone-carving tools: air hammers, hand hammers & steel & carbide chisels for soft & hard stone; pneumatic mortar-removal kits for fine repointing work; stone-masonry & -splitting tools.	Free Write in No. 1058														Stone-Carving Tools
Walker & Zanger, Inc. 818-252-4187; Fax: 818-252-4103 www.walkerzanger.com Sylmar, CA 91342	Manufacturer of handmade ceramic tile, terra cotta, stone tile & slabs, mosaics & glass.	Full Line Catalog: \$36	✓	✓	✓	✓							✓	✓	✓	Walls
WARDJet, Inc. 330-677-9100; Fax: 330-677-9121 www.wardjet.com Kent, OH 44240	Custom fabricator & supplier of water-jet cutting: stone flooring, signage, tile medallions, intricate inlays & stained-glass; stone, brass, bronze, steel, tile, glass, aluminum, copper, porcelain & composites; 100% custom.	Free	✓	✓	✓	✓	✓				✓	✓		✓	✓	Water-Jet Designs



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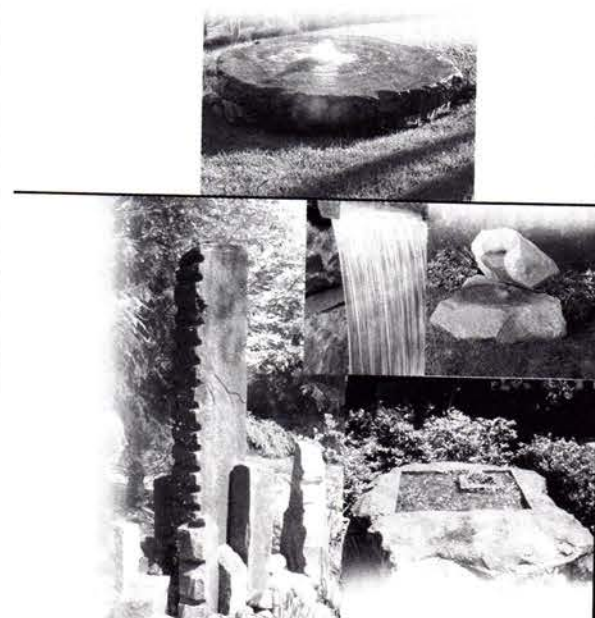


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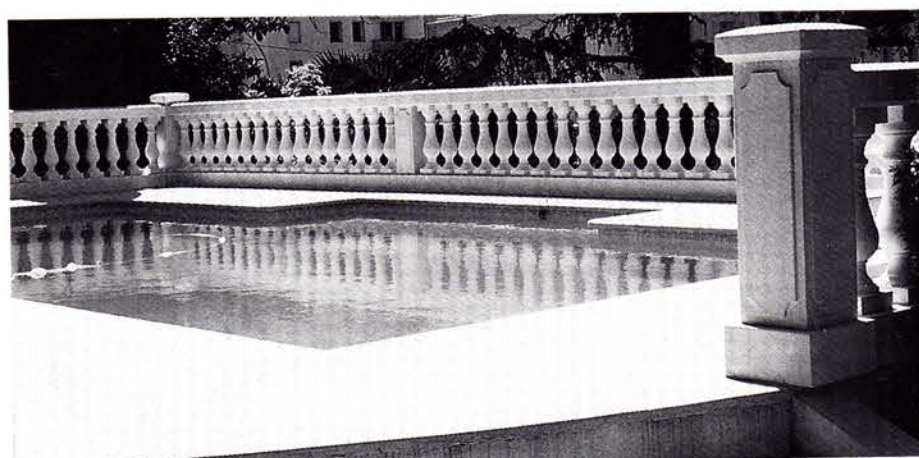
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NATURAL BUILDING STONE PORTFOLIO

For full contact information on these companies, consult the SourceList on pp. 82-84.



JEAN PIERRE JACQUET STONECARVER hand carved this Lion Bench in Indiana limestone.



Hand-carved balustrades are only one of the many limestone products fabricated by LIMESTONE CONCEPT. Write in No. 5390



ROBERT YOUNG & SONS hand carved this decorative architectural element in limestone. Write in No. 5122



ROSSI quarried the stone and then carved this fountain. Write in No. 392



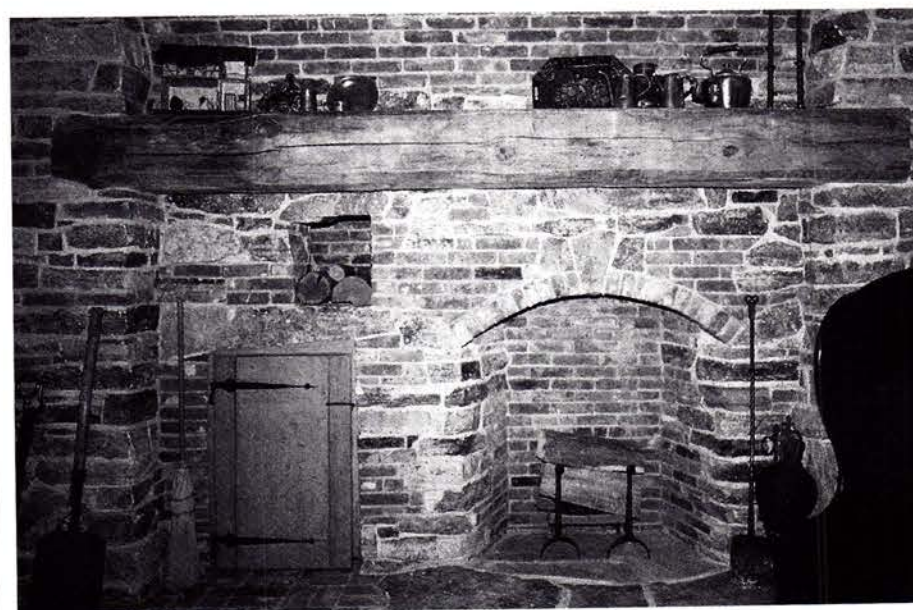
Sculptor Philip Paini created this stonecarving as part of the Italian-American Stonecutters Monument using tools from TROW & HOLDEN. Write in No. 1058



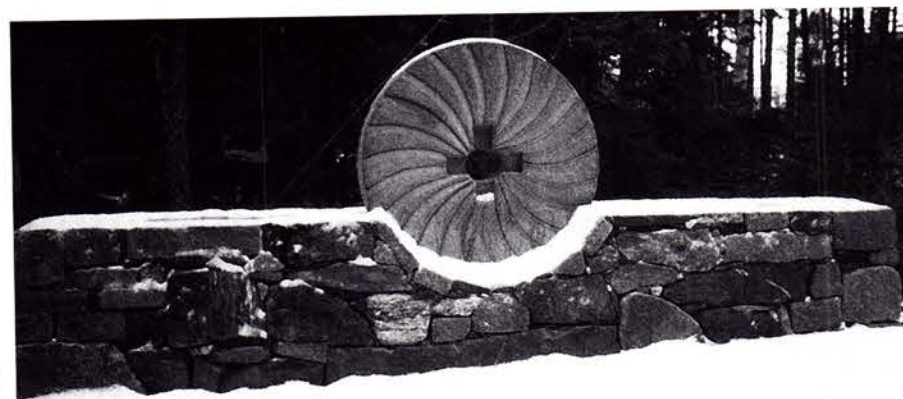
This limestone fountain was designed and hand carved by PELLETTIERI STONECARVING. Write in No. 881



Working in natural stone, FAIRPLAY STONECARVERS custom designed this figurative medallion relief. Write in No. 868



CHAMPLAIN STONE used South Bay quartzite and brick to create this fireplace. Write in No. 4270



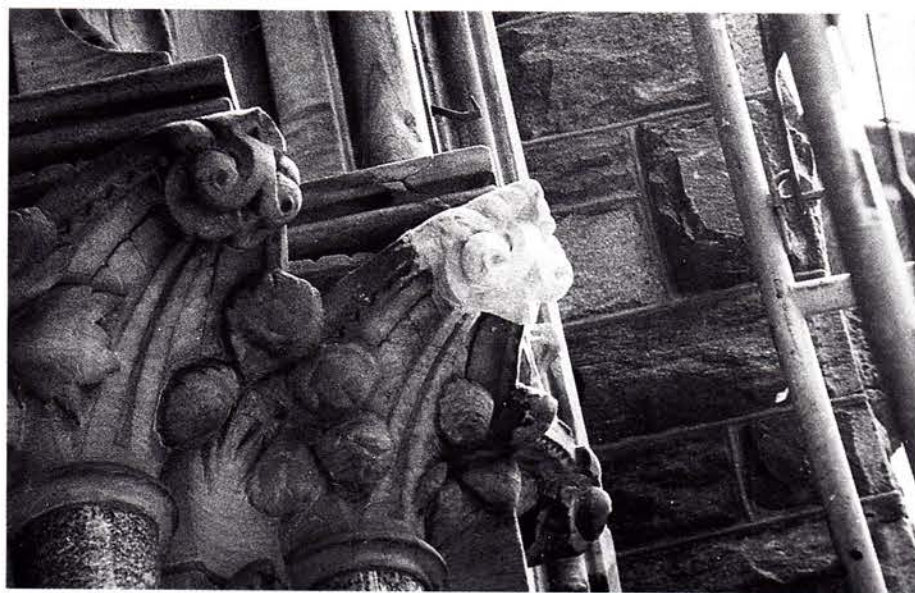
This granite millstone, balanced decoratively on a stone wall, was hand carved by MAINE MILLSTONES. Write in No. 4440



KRONENBERGER & SONS served as General Contractor in the structural-stabilization and window-replacement work done on Branford House, a National Register building in Groton, Conn. Write in No. 556

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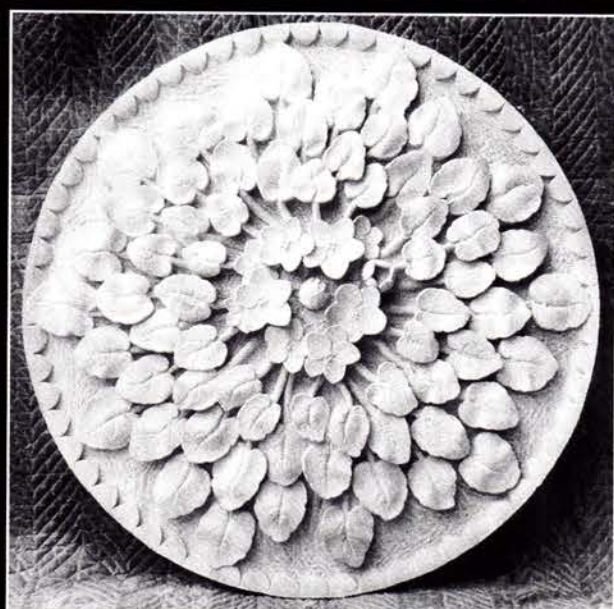
For full contact information on these companies, consult the SourceList on pp. 82-84.



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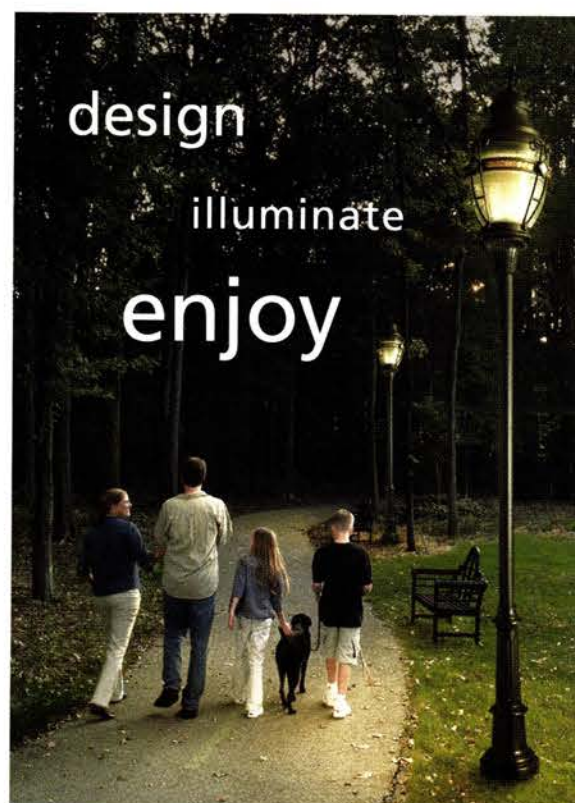
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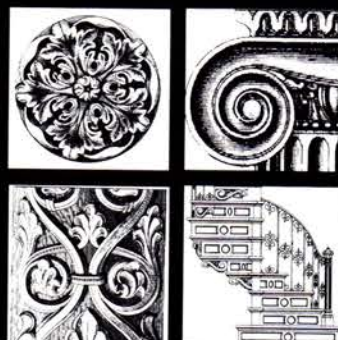
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TRADITIONAL BUILDING TERRA COTTA SourceList

COMPILED BY HADIYA STRASBERG

CSI#04720

About the SourceList and Portfolio

To create this SourceList and the Portfolio that accompanies it, the Editors contacted suppliers of Terra Cotta from our database of companies that provide historical products and services to our audience of design and building professionals. From the companies' responses, the Editors selected the suppliers you'll find below because they provide a good up-to-date cross-section of the market, both geographically and in the variety of their offerings. The Portfolio of products and services available from the companies listed here begins on page 90.

Company	Specialty	Literature	Types of Terra Cotta & Substitutes					Patching Materials	Terra Cotta Anchors	Mold-Making Materials	Other	Restoration Services			
			Custom-Molded True Terra Cotta	Extruded Terra-Cotta Elements	GFRC	FRP	Cast Stone					On-Site Moldmaking	Cleaning Services	Installation/Repair Contracting	Other
Architectural Fiberglass Corp. 800-439-2000; Fax: 631-842-4790 www.afcornice.com Freeport, NY 11520	Custom fabricator of ornament reproductions: cornice moldings, columns, capitals, balustrades & themed interior environments; lightweight FRP; molded-in colors & texture; class-I fire-retardant material.	Free Write in No. 6400				✓									
Architectural Reproductions 888-440-8007; Fax: 503-281-6926 www.archrepro.com Portland, OR 97227	Designer of ornamental molds: columns, capitals, cornices & cupolas; GFRC, plaster, cast stone, terra cotta, polymer composites, scagliola & more.	Free Write in No. 6130	✓		✓		✓			✓		✓			
Boston Valley Terra Cotta 716-649-7490; Fax: 716-649-7688 www.bostonvalley.com Orchard Park, NY 14127	Custom fabricator of architectural terra cotta: columns, cornices, capitals & roof tile; site & survey work.	Free Write in No. 160	✓	✓				✓	✓	✓		✓	✓	✓	
Cathedral Stone Products — Jahn Mortars 800-684-0901; Fax: 410-782-9155 www.jahnmortars.com Hanover, MD 21076	Manufacturer of Jahn restoration mortar: compatible patching mortars for the repair of any masonry surface; cementitious, non-polymer mortars; breathable at any thickness; easy to apply; standard & custom colors.	Free Write in No. 9580						✓							Restoration Mortars
Cintec America, Inc. 800-363-6066; Fax: 800-461-1862 www.cintec.com Washington, DC 20015	Manufacturer of engineered anchoring systems for masonry, terra-cotta & chimney repair/restoration: fireproof, cement-based & custom-tailored to each application.	Free Write in No. 7050							✓						
Conproco Corp. 800-258-3500; Fax: 603-743-5744 www.conproco.com Dover, NH 03820	Manufacturer of MIMIC repair mortar for natural stone, terra cotta & cast stone: MIMIC Matrix all-natural stone-repair mortar for on-site color matching of stone; products to repair & restore concrete, masonry & stone.	Free Write in No. 8094						✓			Terra-Cotta Repair Materials				
Continental Cast Stone Mfg., Inc. 800-989-7866; Fax: 913-422-7272 www.continentalcaststone.net Shawnee Mission, KS 66227	Manufacturer of cast-stone architectural products: columns, capitals, balustrades & more; vibrant-dry-tamp method used to get fine-grain texture replicating the look of natural stone; terra cotta replacements.	Free Write in No. 6940					✓								
Edison Coatings, Inc. 800-697-8055; Fax: 860-747-2280 www.edisoncoatings.com Plainville, CT 06062	Manufacturer of customized repair & repointing mortars, adhesives, breathable coatings & surface treatments: for stone, masonry & concrete; terra-cotta repair & glaze-replacement materials; custom matching; training services.	Free Write in No. 3143						✓			Glaze Replication & Repair Materials				Custom Matching of Glaze & Composite Repair
Esthetic Detail 402-466-7366; Fax: 402-466-1752 5840 Fletcher Ave. Lincoln, NE 68507	Restorer of terra cotta: multiple colors of simulated terra cotta fabricated in GFRC.	Free Write in No. 94			✓									✓	
GFRC, Inc. 402-466-3200; Fax: 402-466-2369 6001 North 60th St. Lincoln, NE 68507	Manufacturer of GFRC products: exterior wall claddings to replications of historical architectural elements; replacements for terra cotta; on-site moldmaking.	Free			✓							✓			
Gladding, McBean—Div. of Pacific Coast Bldg. 800-776-1133; Fax: 916-645-1723 www.gladdingmcbean.com Lincoln, CA 95648	Traditional producer of terra cotta: roof tile, chimney tops & caps, flue liners, facades, pavers & sewer pipes; glazed pottery & wall coping in standard or custom designs; CAD drawings & glaze-color matching.	Free Write in No. 6010	✓	✓				✓	✓	✓		✓	✓	✓	
Kreier Co., George 215-763-4666; Fax: 215-236-7408 1524 Cambridge St. Philadelphia, PA 19130	Custom fabricator of cast architectural components: FRP, plaster & cements; cupolas, columns, capitals & more; replacement terra-cotta elements; technical & aesthetic problem solving; extensive experience on landmark projects.	Free Write in No. 2780				✓	✓								
Limestone Concept, Inc. 310-278-9829; Fax: 310-278-9651 www.limestoneconcept.com Los Angeles, CA 90035	Custom fabricator & distributor of limestone fireplaces, fountains, columns, balustrades, capitals, mantels, benches, ornament, garden statuary, sculpture, planters & urns: French limestone slabs & tiles; antique terra cotta.	Free Write in No. 5390								Antique Terra Cotta					
Terra Designs Tileworks 973-328-1135; Fax: 973-328-3624 www.terradesigns.com Dover, NJ 07802	Supplier of French antique terra cotta & ceramic tiles: made-to-order sizes, shapes, colors & designs; 50 matte Craftsman glazes for tiles, moldings & mosaics; historic replication; classic artisan ceramics; mosaic tesserae.	Free Write in No. 2790	✓	✓							Byzantine Mosaics & Asian Subway Mosaics				Terra-Cotta Relief Moldings & Friezes

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TRADITIONAL BUILDING TERRA COTTA SourceList

COMPILED BY HADIYA STRASBERG

CSI#04720

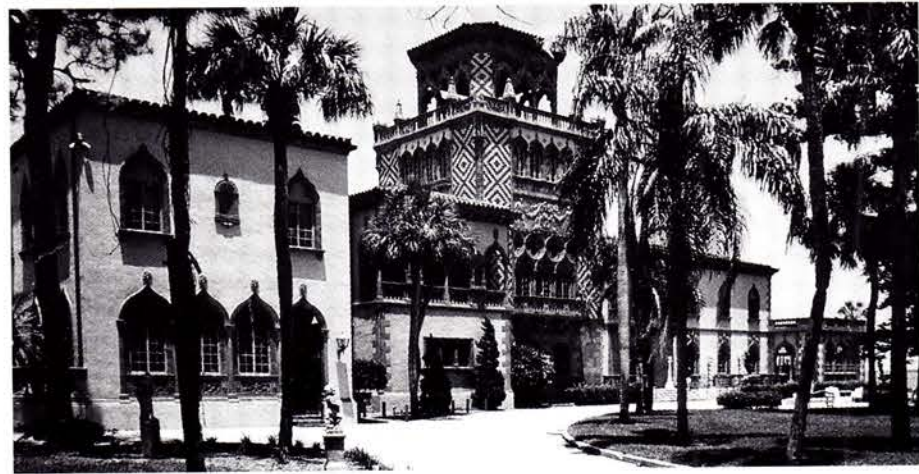
Company	Specialty	Literature	Types of Terra Cotta & Substitutes					Patching Materials	Terra Cotta Anchors	Mold-Making Materials	Other	Restoration Services			
			Custom-Molded True Terra Cotta	Extruded Terra-Cotta Elements	GFRC	FRP	Cast Stone					On-Site Moldmaking	Cleaning Services	Installation/Repair Contracting	Other
THR Cast Stone & GFRC 718-497-9200; Fax: 718-497-3556 www.thrcaststone.com Brooklyn, NY 11237	Manufacturer of molded ornament: columns, capitals, balustrades & more; cast stone & GFRC; pattern restoration, pattern sculpture, color matching, field molds, field surveys, shop drawings & engineering; terra cotta restoration.	Free Write in No. 545			✓		✓					✓		✓	
Vande Hey-Raleigh Mfg. 800-236-8453; Fax: 920-766-0776 www.vhr-roof-tile.com Little Chute, WI 54140	Manufacturer of recycled clay, concrete & natural slate roofing: new tile, nine styles, 20 standard colors & surfaces; for restoration & new construction.	Free Write in No. 2840									Terra-Cotta Tile				
Watertrol, Inc. 908-389-1690; Fax: 908-389-9480 2480 Plainfield Ave. Scotch Plains, NJ 07076	Restorer of exterior masonry & terra cotta: reconstruction, structural stabilization, specialty roofing, exterior building cleaning & specialty anchoring.	Free Write in No. 218							✓			✓	✓	✓	

TERRA COTTA PORTFOLIO

For full contact information on these companies, consult the SourceList on p. 88 and above.



The fiberglass replication of an original cornice was installed at the Dorothy Day Apartments in NYC by ARCHITECTURAL FIBERGLASS. Write in No. 6400



EDISON COATINGS supplied five colors of custom System 45 terra-cotta patching compound for the exterior restoration of Ca d'Zan in Sarasota, Fla. Write in No. 5145



VANDE HEY-RALEIGH used terra-cotta Riviera to restore Little Chute Elementary School in Wis. Write in No. 2840



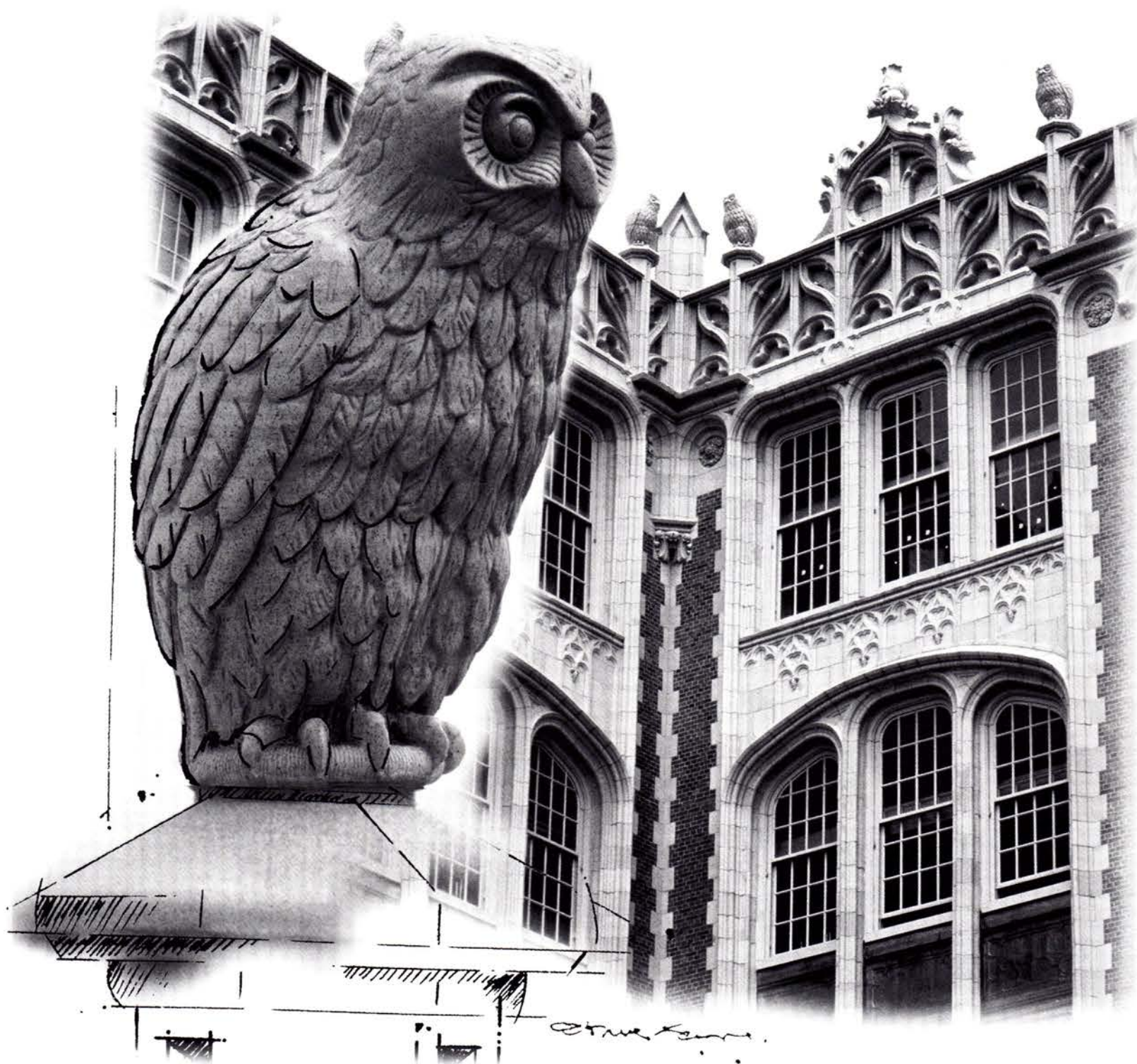
CINTEC AMERICA supplied the anchoring system used to repair the water-damaged interior wall core at St. Anne's Church in Ottawa, Canada. Write in No. 7050



BOSTON VALLEY TERRA COTTA restored the facade of this office building, including the decorative ornamentation. Write in No. 160

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Gladding McBean Remodel Project: PS 157 School Brooklyn, NY

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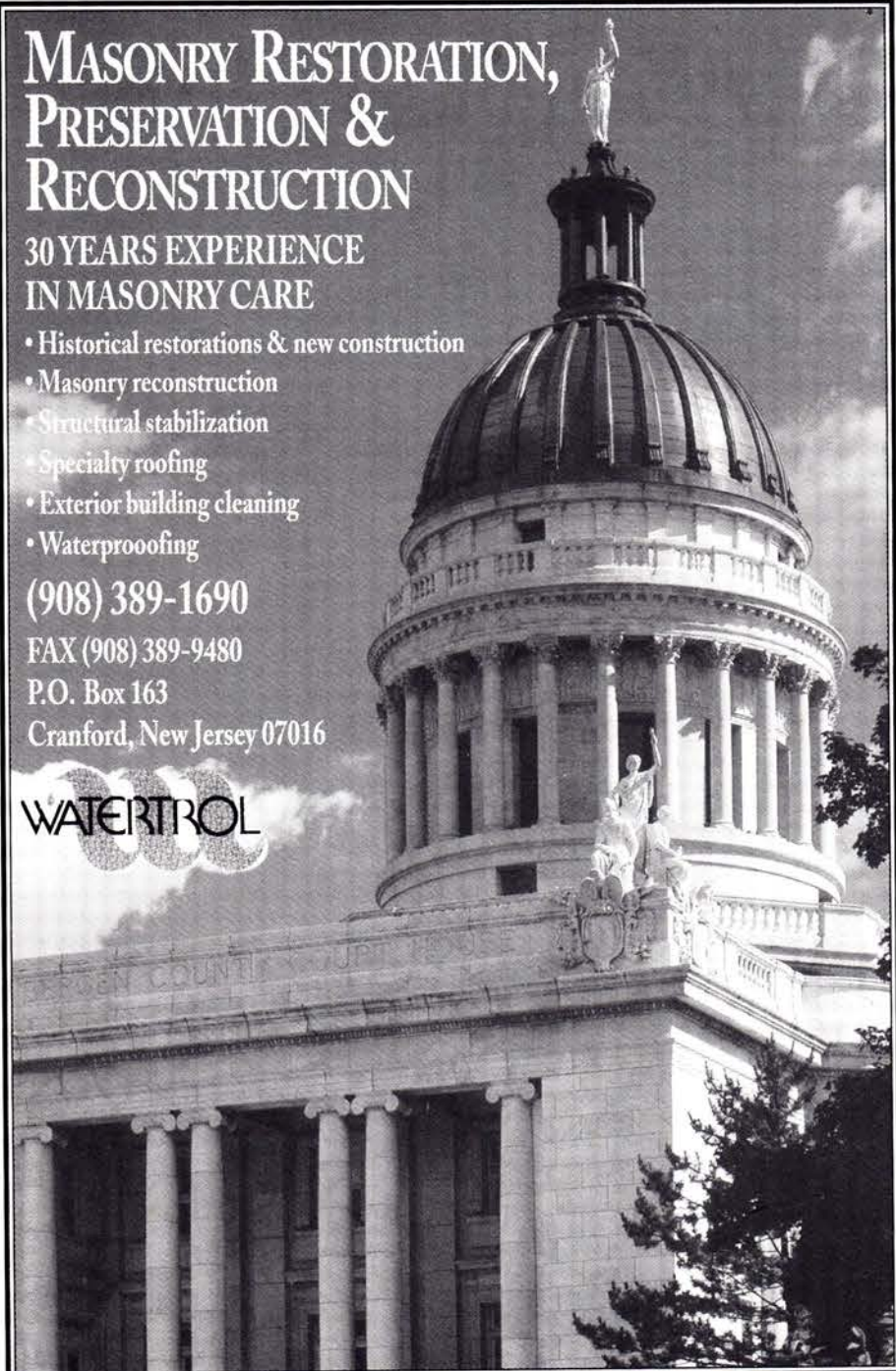
(908) 389-1690

FAX (908) 389-9480

P.O. Box 163

Cranford, New Jersey 07016

WATERPROOF



WRITE IN NO. 218

USE WHAT WORKS

Place: Palladium Building, New Haven,
CT: Listed, National Register of
Historic Places

Product: Edison Custom System 45
Brownstone Repair Mortar #701

Quantity: Approx. 8 tons

Installed: 1982

Status: Still Working

Edison Coatings, Inc.

3 Northwest Drive

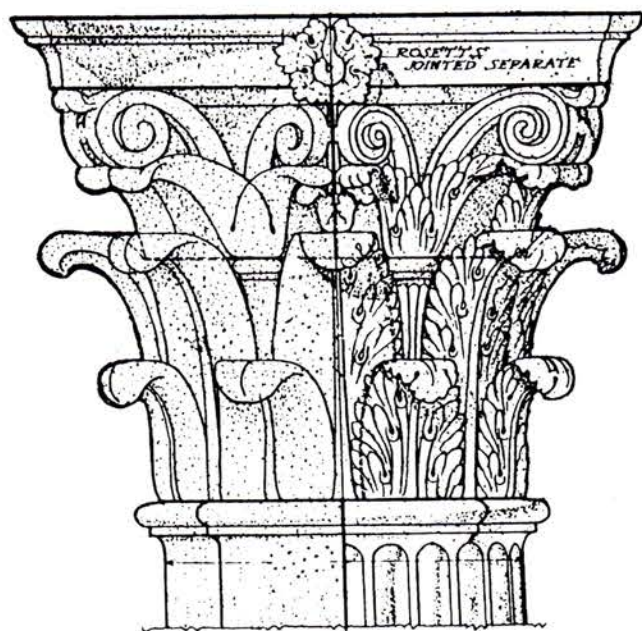
Plainville, CT 06062

Phone: (800) 697-8055 or (860) 747-2220

Internet: www.edisoncoatings.com

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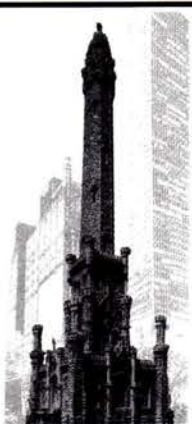
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WRITE IN NO. 852

*“When contacting companies
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TRADITIONAL BUILDING
COLUMNS & CAPITALS SourceList

COMPILED BY MARTHA MCDONALD

CS1#06400

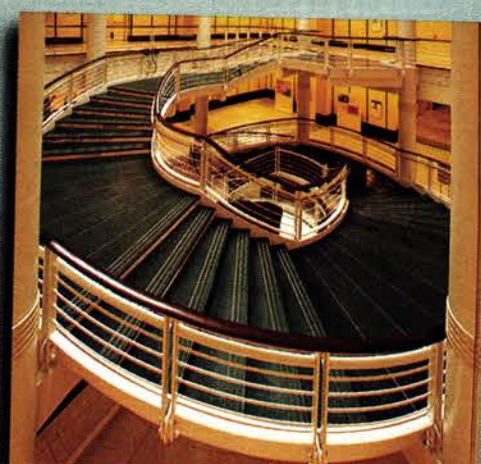
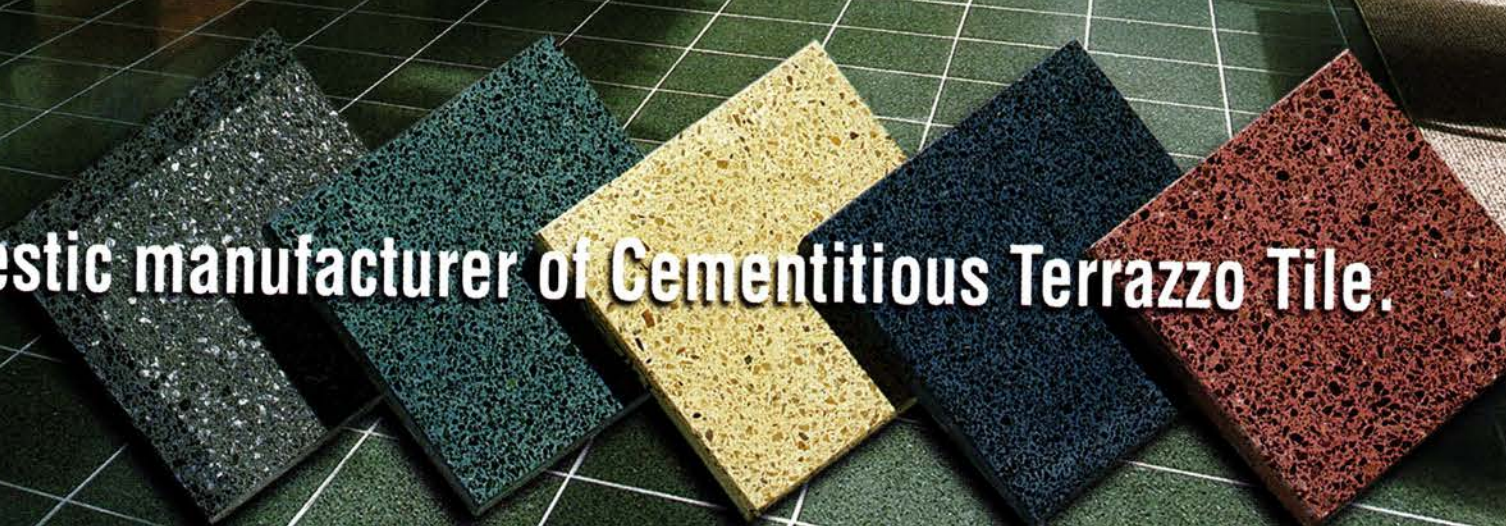
About the SourceList and Portfolio

To create this SourceList and the Portfolio that accompanies it, the Editors contacted suppliers of Columns & Capitals from our database of companies that provide historical products and services to our audience of design and building professionals. From the companies' responses, the Editors selected the suppliers you'll find below because they provide a good up-to-date cross-section of the market, both geographically and in the variety of their offerings. The Portfolio of products and services available from the companies listed here begins on page 104.

COMPANY	SPECIALTY	Literature	Types			Materials							Max dia. (in.); max ht. (ft.)	Capitals				% Custom
			Solid	Hollow	Stavework	Wood	Polymer/Stone	Fiberglass (FRP)	Cast Stone	Plaster/Gypsum	Natural Stone	Other		Natural Stone	Wood	Polymer/Gypsum	Other	
Allen Architectural Metals, Inc. 800-204-3858; Fax: 256-761-1967 www.allenmetals.com Talladega, AL 35161	Supplier of cast-metal ornament: columns, pilasters, fountains, benches, garden furniture, facades, gates & fences, exterior lighting & more; many alloys & finishes.	Free Write in No. 1005		✓								Metal						40%
American Wood Column Corp. 718-782-3163; Fax: 718-387-9099 913 Grand St. Brooklyn, NY 11211	Supplier of custom turnings to match originals: wood columns, capitals & balusters; fluted, plain or twisted; porch parts, balusters, newel posts, all size finials in any wood species & compo ornament.	Free Write in No. 1308	✓	✓	✓	✓						Polymer Composite	36-in. dia.; 40-ft. ht.		✓	✓		75%
Architectural Antiques 303-297-9722; Fax: 303-297-9290 www.archantiques.com Denver, CO 80205	Distributor of architectural antiques: columns, capitals, clawfoot tubs, hardware, lighting & more; 16,000-sq.ft. showroom in Denver, 24,000-sq.ft. showroom in Minneapolis, 3rd showroom in Miami; new inventory on a monthly basis.	Free	✓	✓		✓			✓	✓	✓	Metal		✓	✓		Metal	0%
Architectural Antiquities 207-326-4938; No Fax www.archantiquities.com Harborside, ME 04642	Supplier of Victorian-era antiques: plumbing, hardware, interior & exterior lighting, columns, brackets, doors, windows, ironwork, fretwork, beams, stair parts & mantels; all cleaned & refurbished.	Free Write in No. 893	✓	✓	✓	✓						Metal			✓	✓	Metal	0%
Architectural Distributors, Inc. 800-729-4606; Fax: 847-223-5826 www.archdist.com Grayslake, IL 60030	Distributor of columns & architectural ornament: 52 lines encompassing over 10,000 stock & custom products; wood, cast stone, marble, fiberglass, polyurethane, metal & resins.	Free Write in No. 1087				✓	✓	✓	✓	✓	✓	Metal		✓	✓	✓	Cement & GFRC	25%
Architectural Facades Unlimited 408-846-5350; Fax: 408-846-6911 www.architecturalfacades.com Gilroy, CA 95020	Supplier of precast architectural ornament: columns, balustrades, cornices, mantels & fountains; cement, plaster, modified gypsum, GFRC & GRG; on-site drawings, patterning, moldmaking & casting; 15 standard colors.	Free Write in No. 1470		✓					✓	✓						✓		50%
Architectural Fiberglass Corp. 800-439-2000; Fax: 631-842-4790 www.afcornice.com Freeport, NY 11520	Custom fabricator of ornament reproductions: cornice moldings, columns, capitals, balustrades & themed interior environments; lightweight FRP; molded-in colors &	Free Write in No. 6400						✓								✓		90%
						✓									✓			20%
			✓	✓		✓				✓		Fiberglass, Metal, Polyurethane & Polyethelane	36-in. dia.; 26-ft. ht.	✓	✓	✓	Resin & Metal	0%
						✓			✓	✓	✓			✓		✓		95%
			✓	✓											✓			100%
											✓		24-in. dia.; 20-ft. ht.	✓				50%
											✓			✓				100%
						✓			✓	✓						✓		50%

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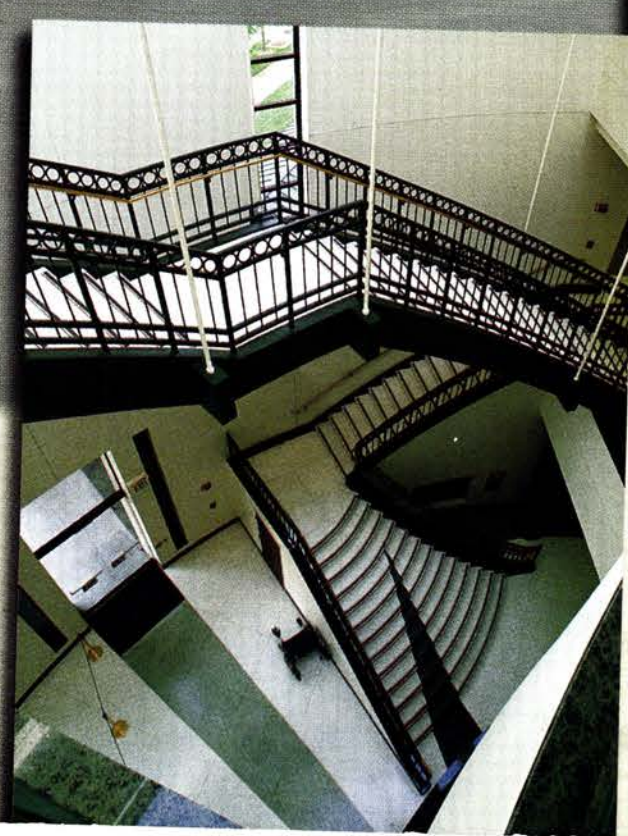
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			Solid	Hollow	Stavework	Wood	Polymer/Stone	Fiberglass (FRP)	Cast Stone	Plaster/Gypsum	Natural Stone	Other		Natural Stone	Wood	Polymer/Gypsum	Other		
HB&G 800-264-4HBG; Fax: 334-566-4629 www.hbgcolumns.com Troy, AL 36081	Supplier of low-maintenance porch products, columns, spindles, newels, posts, railings, moldings & entrances: polyurethane & permacast FRP; custom & stock.	Free Write in No. 380		✓	✓	✓	✓	✓	✓			Polyurethane	30-in. dia.; 30-ft. ht.			✓		20%	
Historical Arts & Casting, Inc. 800-225-1414; Fax: 801-280-2493 www.historicalarts.com West Jordan, UT 84088	Designer & custom fabricator of ornamental metalwork: bronze windows, stairs, columns, balusters, railings, lighting, planters & urns, fountains, facades & more; iron, bronze, aluminum & steel; restoration & custom projects.	Free Write in No. 1210	✓	✓								Metal				Metal		75%	
Hyde Park Fine Art of Mouldings 718-706-0504; Fax: 718-706-0507 www.hyde-park.com Long Island City, NY 11101	Manufacturer of standard plaster columns, crown moldings, coffers, domes, niches & medallions: custom & restoration.	Free Write in No. 802	✓	✓	✓					✓						✓		50%	
Imperial Productions & Distribution 800-399-7585; Fax: 416-264-6098 www.imperialdesign.on.ca Toronto, ON, Canada M1J 1A1	Supplier of architectural elements: columns, moldings, millwork, doors, mantels, cabinetry & carvings; thousands of pieces; wood, plaster, composites, polymers; tin ceilings & cornices.	Free Write in No. 1407	✓	✓	✓	✓	✓	✓	✓	✓	✓	Square Tapered Fiberglass, Polyurethane	36-in. dia.; 28-ft. ht.			✓	✓	Hand-Carved Wood	75%
JMS Wood Products 818-709-8674; Fax: 818-709-8683 6617 Independence Ave. Canoga Park, CA 91304	Supplier of custom millwork: stair parts (roped, fluted & twisted), columns, capitals, moldings & mantels; all wood species.	Free Write in No. 6320				✓												100%	
Kaleh Design Collection/Stone 310-289-9746; Fax: 310-289-9749 www.kalehdesign.com West Hollywood, CA 90048	Manufacturer of cast-stone items: planters, pots, urns, jardinieres, fireplace mantels, columns, garden objects, fountains & more; frost-freeze resistant.	Free Write in No. 3068			✓				✓								Cast Stone	10%	
Kreier Co., George 215-763-4666; Fax: 215-236-7408 1524 Cambridge St. Philadelphia, PA 19130	Custom fabricator of cast architectural components: FRP, plaster & cements; cupolas, columns, capitals & more; replacement terra-cotta elements; technical & aesthetic problem solving; extensive experience on landmark projects.	Free Write in No. 2780						✓		✓		Cements						100%	
Limestone Concept, Inc. 310-278-9829; Fax: 310-278-9651 www.limestoneconcept.com Los Angeles, CA 90035	Custom fabricator & distributor of limestone fireplaces, fountains, columns, balustrades, capitals, mantels, benches, ornament, garden statuary, sculpture, planters & urns: French limestone slabs & tiles; antique terra cotta.	Free Write in No. 5390									✓			✓				100%	
Mandish Research International 321-267-2561; Fax: 321-268-1972 www.mandish.com Mims, FL 32754	Manufacturer of composite-fiberglass molds for precast & cast stone: balustrades, bollards, columns, finials, planters, benches, fences, fountains, pavers & mantels; stock & custom.	Free Write in No. 875							✓									65%	
Manor Style, Ltd. 800-325-2188; Fax: 410-298-0848 6741 Whitestone Rd. Baltimore, MD 21207	Supplier of molded ornament: cornice moldings, columns & capitals, door & window surrounds, ceiling medallions, niches & domes, brackets, corbels & balustrades; polystyrene, polyurethane, PVC, FRP & cultured marble/resin.	Free Write in No. 703		✓	✓	✓	✓	✓		✓		Polystyrene, Polyurethane, PVC & Cultured Marble/Resin	48-in. dia.; 30-ft. ht.			✓	✓	50%	
Marble Classics, Inc. 410-265-6670; Fax: 410-265-6672 www.marbleclassics.net Baltimore, MD 21207	Spanish distributor of natural stone products: marble, limestone, sandstone & other stone; mantels, columns, capitals, balusters, fountains, statuary, monuments, stairs, cornices & more; all custom made; fabricators in Spain.	Free Write in No. 1126	✓	✓							✓		36-in. dia.; 25-ft. ht.		✓			100%	
Melton Classics, Inc. 800-963-3060; Fax: 770-962-6988 www.meltonclassics.com Lawrenceville, GA 30045	Manufacturer of authentic architectural columns: round or square, plain or fluted; all sizes & designs; fiberglass, resin composite, synthetic stone, cast stone, GFRC, GRG & wood; low-maintenance balustrades & cornices.	Free Write in No. 4100			✓	✓	✓	✓	✓	✓	✓	GFRC & GRG	60-in. dia.; 30-ft. ht.			✓	✓	Fiberglass & Metal	100%
Milestone Architectural Ornamentation 888-851-3381; Fax: 806-381-6996 www.milestoneltd.com Amarillo, TX 79107	Supplier of hand-cast architectural ornament: ceiling medallions, columns, building panels, statuary, trims, fireplaces & themed environments in limestone; lightweight & highly durable; custom-mold capabilities.	Free Write in No. 493	✓	✓	✓					✓	✓	Lightweight Cast Limestone						95%	
Mohamad Wood Turning Co. 718-417-0025; Fax: 718-417-0021 www.mohamadwoodturning.com Brooklyn, NY 11206	Supplier of custom wood turnings: stairs & stair parts (roped, twisted, fluted & spiral), turnings, balusters & columns; classical styles.	Free Write in No. 50	✓	✓	✓	✓							14-in. dia.; 15-ft. ht.			✓		100%	
New York Fine Woodturning 718-456-2227; Fax: 718-456-9807 21 Grattan St. Brooklyn, NY 11206	Custom fabricator of wood turnings: twisted & fluted handrails, moldings, balustrades, newel posts & columns; hand carved; custom finishing.	Free				✓										✓		90%	

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Pagliaccio Turning & Milling 415-488-4333; Fax: 415-488-9372 P.O. Box 225 Woodacre, CA 94973	Supplier of columns & other turnings: classical styles; solid & hollow turnings from 1-5/8 in. to 24 in. x 20 ft.; some are load-bearing; stair parts, railings, balustrades, balusters, spindles, newels & more; stock & custom.	Free Write in No. 7070	✓	✓	✓	✓							24-in. dia.; 20-ft. ht.					80%
Robert Young & Sons, Inc. 973-483-0451; Fax: 973-483-0185 25 Grafton Ave. Newark, NJ 07104	Supplier of dimensional-cut & hand-carved limestone, marble & granite: new & restoration projects; hand-carved fireplaces, sculpture, columns & furniture; architectural & ecclesiastical stonework.	Free Write in No. 3122									✓		24-in. dia.; 20-ft. ht.	✓			Plaster & Fiberglass	100%
Robinson Iron Corp. 800-824-2157; Fax: 256-329-8960 www.robinsoniron.com Alexander City, AL 35011-1119	Designer & installer of historic restoration & custom metalwork: columns, fences, railings, sculpture, furniture & more; wrought iron/steel, aluminum, bronze & cast iron; water-jet cutting.	Free Write in No. 3240		✓								Metal	10-in. dia.; 15-ft. ht.				Metal	75%
Schwerd Mfg. Co., A.F. 412-766-6322; Fax: 412-766-2262 www.schwerdcolumns.com Pittsburgh, PA 15212	Manufacturer of wood columns & pilasters: paint & stain finishes; historic reproductions; standard & custom; ecclesiastical projects.	Free Write in No. 1610		✓	✓	✓							36-in. dia.; 30-ft. ht.					95%
Seal Reinforced Fiberglass, Inc. 631-842-2230; Fax: 631-842-2276 23 Bethpage Rd. Copiague, NY 11726	Supplier of garden pools, waterfalls, planters & rock features: FRP building components, cornices, cupolas, columns, balustrades & brackets; full-service mold & tool fabricator; on-site molds.	Free Write in No. 4620 for Cornices; 1353 for Cupolas						✓										90%
Somerset Door & Column Co. 814-445-9608; Fax: 814-443-1658 www.somersetcolumns.com Somerset, PA 15501	Supplier of Colonial wood columns: custom or standard, up to 40-in. dia. & 40-ft. length; architectural solid-wood doors, hand assembled to spec.; newels, balusters, posts, casework & moldings.	Free Write in No. 660				✓							40-in. dia.; 40-ft. ht.					55%
Spartan Architectural Columns 800-949-5450; Fax: 541-842-4053 www.spartanbldg.com Medford, OR 97504	Supplier of columns & ornamental capitals: wood, fiberglass, GFR, GRC & FRP; facade & trim work in synthetic materials; classic styles with true entasis; synthetic balustrades, cupolas & weathervanes; vinyl fence & deck materials.	Free Write in No. 5650		✓	✓	✓		✓		✓		Thin-Shell Composites & Square PVC	48-in. dia.; 48-ft. ht.		✓	✓	Metal	75%
Stone Legends 800-398-1199; Fax: 214-398-1293 www.stonelegends.com Dallas, TX 75217	Manufacturer of handmade molded ornament: balustrades, columns, fountains, pavers, steps, signs, wall caps, landscape & garden ornament; custom casting.	Free Write in No. 8630	✓	✓					✓		✓		24-ft. ht.					50%
Stonesculpt 650-575-9683; Fax: 650-322-5002 www.customstonecarving.com Palo Alto, CA 94303	Provider of custom hand carving in natural stone: fireplace mantels, sculpture, fountains, monuments, signage, landscape & other architectural ornament; traditional & contemporary styles.	Free Write in No. 371	✓	✓							✓		24-in. dia.; 12-ft. ht.	✓				90%
Superior Aluminum Products, Inc. 937-526-4065; Fax: 937-526-3904 www.superioraluminum.com Russia, OH 45363	Manufacturer of aluminum railings, columns & fences: various finishes & colors; load-bearing, round & square columns; matching caps.	Free Write in No. 1322		✓	✓			✓				Aluminum	30-in. dia.; 40-ft. ht.				Fiberglass & Aluminum	5%
Superior Moulding, Inc. 800-473-1415; Fax: 818-376-1314 5953 Sepulveda Blvd. Van Nuys, CA 91411	Supplier of architectural & ornamental woodwork: straight & curved stairs, rails, balusters, spindles, newel posts, treads, ceiling medallions, furniture legs, columns, capitals & more; custom turnings; all wood species.	Free Write in No. 138				✓									✓			20%
THR Cast Stone & GFR 718-497-9200; Fax: 718-497-3556 www.thrcaststone.com Brooklyn, NY 11237	Manufacturer of molded ornament: columns, capitals, balustrades & more; cast stone & GFR; pattern restoration, pattern sculpture, color matching, field molds, field surveys, shop drawings & engineering; terracotta restoration.	Free Write in No. 545							✓			Thin-Shell Composites				✓	Cast Stone	90%
Thunderstone 402-420-2322; Fax: 402-420-2542 www.castone.com Lincoln, NE 68512	Manufacturer of cast-stone units: architecturally correct columns, balustrades & door, window & fireplace surrounds; matching of existing terra-cotta, plaster & natural-stone elements; int./ext. applications.	Free Write in No. 8012							✓		✓			✓				90%
Timeless Architectural Reproductions, Inc. 800-665-4341; Fax: 770-205-1447 www.timelessarchitectural.com Cumming, GA 30041	Manufacturer of architectural ornament: columns, decorative capitals, pilasters, balustrades & more; classically designed; polyester resin, fiberglass & cultured marble composite; custom casting; technical & installation support.	Free Write in No. 1414		✓		✓	✓						36-in. dia.; 24-ft. ht.				Stone/Resin Composites	100%
Warner Bros. Studio Facilities 818-954-3000; Fax: 818-954-7829 www.wbsconstructionservices.com Burbank, CA 91522	Custom fabricator of architectural ornament & murals: balustrades, columns, capitals & moldings in fiberglass & plaster; fine-art reproductions, restoration & trompe l'oeil; interior & exterior decoration.	Free Write in No. 778		✓				✓		✓						✓	Precast & Fiberglass	100%
Wilbur, Frederick - Woodcarver 434-263-4827; Fax: 434-263-5958 www.frederickwilbur-woodcarver.com Lovingston, VA 22949	Woodcarver: columns, furniture, mantels, casing/moldings, friezes, rosettes, heraldry & carved doors; all wood species; creates original designs & historically accurate reproductions.	Free Write in No. 1650				✓									✓			100%
Wood Factory 936-825-7233; Fax: 936-825-1791 111 Railroad St. Navasota, TX 77868	Custom fabricator of interior & exterior millwork reproductions: straight & monumental stairs, finials, columns, balusters/spindles, newel posts & custom turnings; all wood species; matches custom parts & workings from renderings.	Free Write in No. 7120				✓									✓			100%

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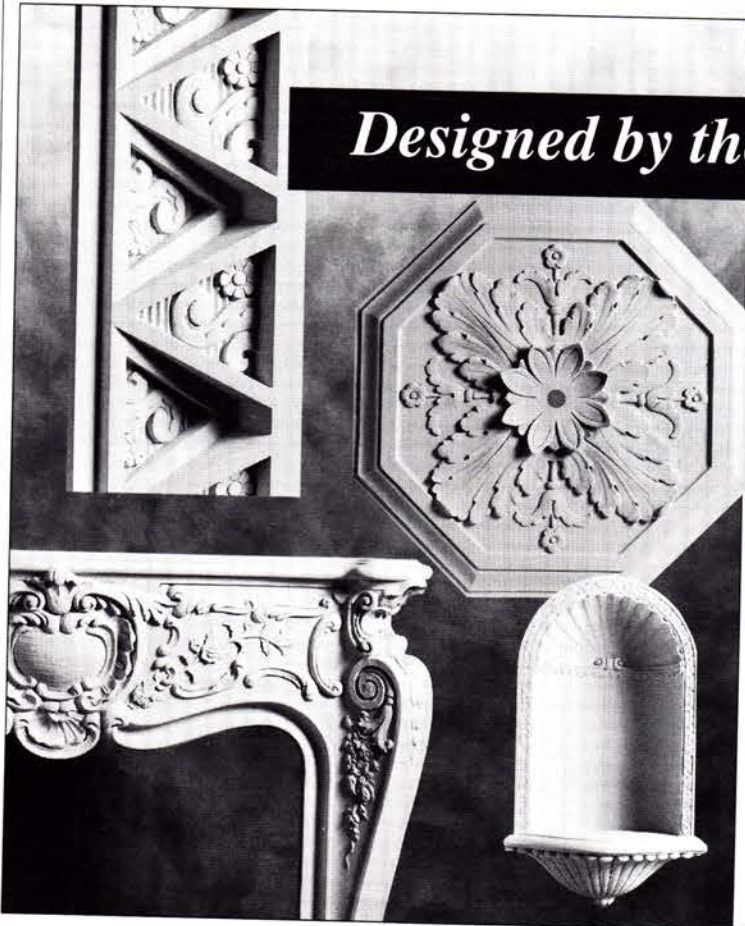
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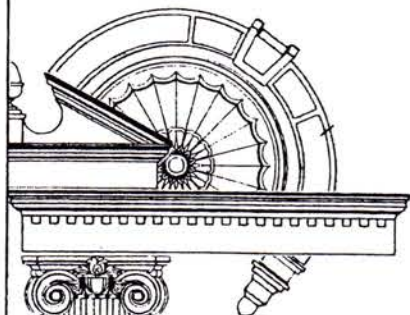
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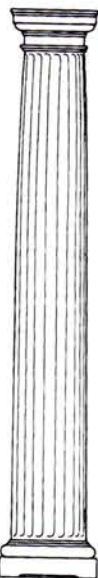
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TRADITIONAL BUILDING COLUMNS & CAPITALS SourceList

COMPILED BY MARTHA MCDONALD

CSI#06400

COMPANY	SPECIALTY	Literature	Types			Materials						Max dia. (in.); max ht. (ft.)	Capitals				% Custom
			Solid	Hollow	Stavework	Wood	Polymer/Stone	Fiberglass (FRP)	Cast Stone	Plaster/Gypsum	Natural Stone	Other	Natural Stone	Wood	Polymer/Gypsum	Other	
Woodline Co. 562-436-3771; Fax: 562-436-8891 1521 W. 14th St. Long Beach, CA 90813	Supplier of machine-carved architectural wood elements: balusters & newel posts; carvings, moldings, columns & capitals; oak, poplar, alder & other species to order.	Free Write in No. 5240				✓								✓			50%

COLUMNS & CAPITALS PORTFOLIO

For full contact information on these companies, consult the SourceList on pp. 94-104.



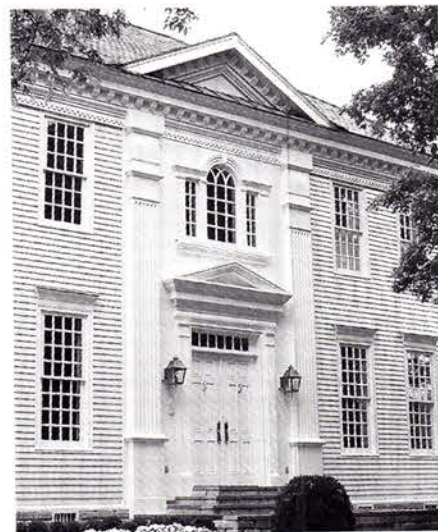
This hand-carved Honduras Mahogany Corinthian capital and fluted pilaster is the work of the artisans at ARCHITECTURAL PANELING. Write in No. 6490



Rubber molds were used by ARCHITECTURAL REPRODUCTIONS to form these GRG reproductions of original cast-iron column capitals and fluted shafts. Write in No. 6150



PermaCast columns from HB&G are cast in plain and fluted styles. Write in No. 580



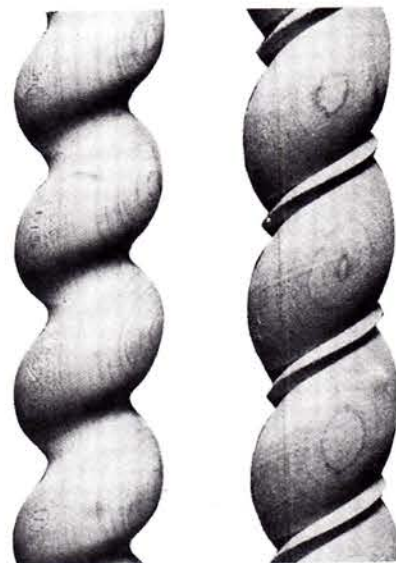
FIBERTECH designs columns, cornices, moldings and pilasters, and entryways in fiberglass-reinforced polyester and high-density polyurethane. Write in No. 25



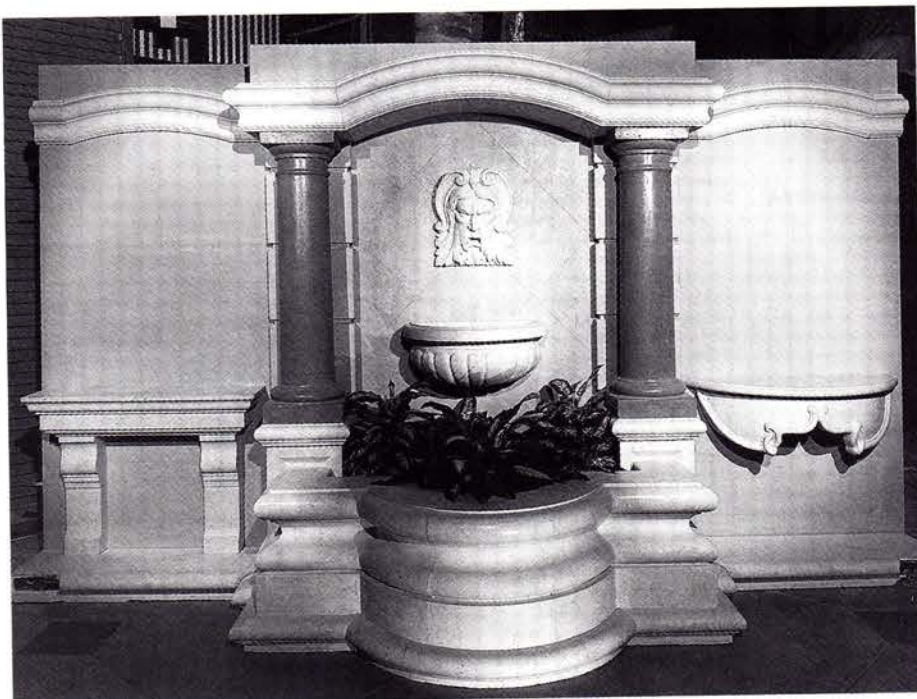
These authentic Roman Corinthian fluted columns from MELTON CLASSICS were custom manufactured to match the original 100-yr.-old columns in an historical restoration of the administrative building at Holy Cross University. Write in No. 4100



These fluted columns as well as the dome were fabricated by HYDE PARK FINE ART OF MOULDINGS. Write in No. 802



Rope moldings from JMS WOOD PRODUCTS are fabricated in diameters ranging from 3/8 to 3 in. and lengths up to 15 ft. Write in No. 6520



ARCHITECTURAL FACADES UNLIMITED fabricated this spectacular wall unit with columns and fountain. Write in No. 1470



The Temple of Winds capital is one of many designs of plaster ornament hand crafted by FISCHER & JIROUCH. Write in No. 1960



Architectural restoration of elements such as columns, capitals, and cornices is the specialty of SEAL REINFORCED FIBERGLASS. Write in No. 4620



B&H ART IN ARCHITECTURE carved this replacement capital in limestone for the Ralph Lauren flagship store. Write in No. 1009

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WRITE IN NO. 138

COLUMNS & CAPITALS PORTFOLIO

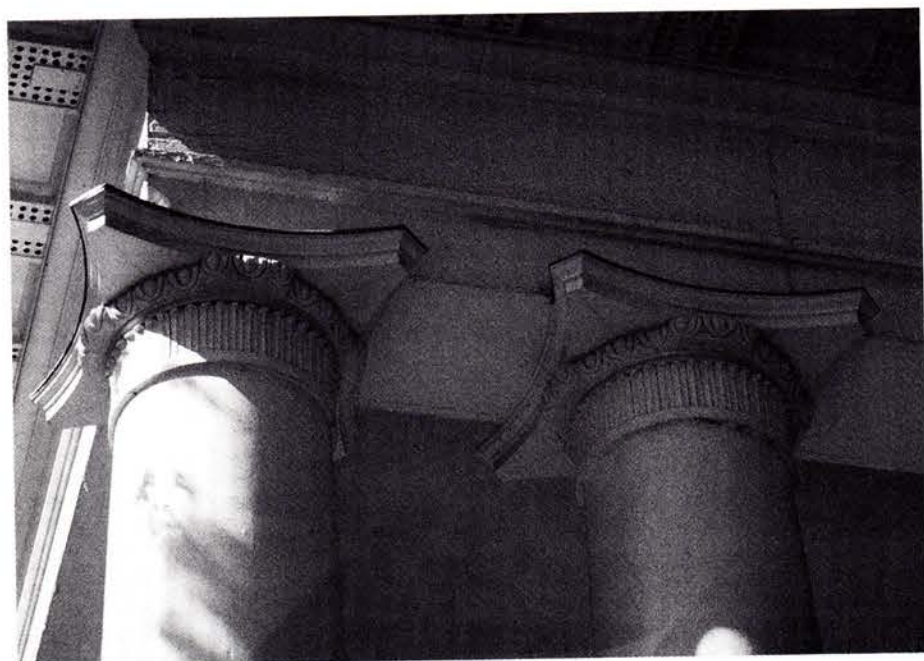
For full contact information on these companies, consult the SourceList on pp. 94-104.



This natural-stone mantel with pilasters was custom made by MARBLE CLASSICS. Write in No. 4100



The columns for the loggia in this office complex were milled by SOMERSET DOOR & COLUMN CO. Write in No. 660



FREDERICK WILBUR hand carved these capitals for the Valentine Museum in Richmond, Va. Write in No. 1650



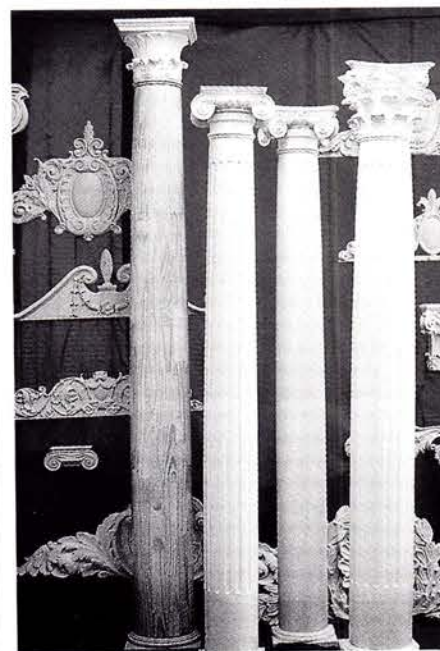
Columns are one of the specialties of CANTERA ESPECIAL. Write in No. 51



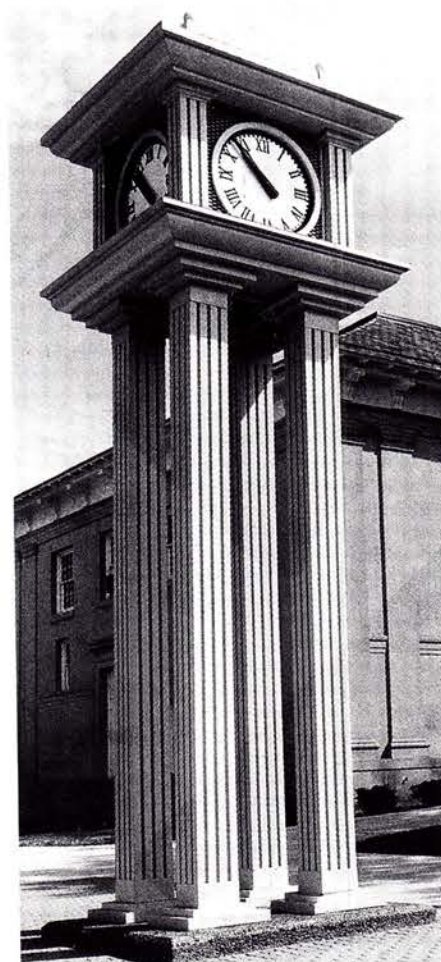
WOODLINE offers plain and fluted columns made of oak, alder and poplar. Write in No. 5240



This pilaster capital, model #431B from FELBER ORNAMENTAL, measures 6-1/2 in. high and 6-3/8 in. wide, with a 5/8 in. projection at its base. Write in No. 2890



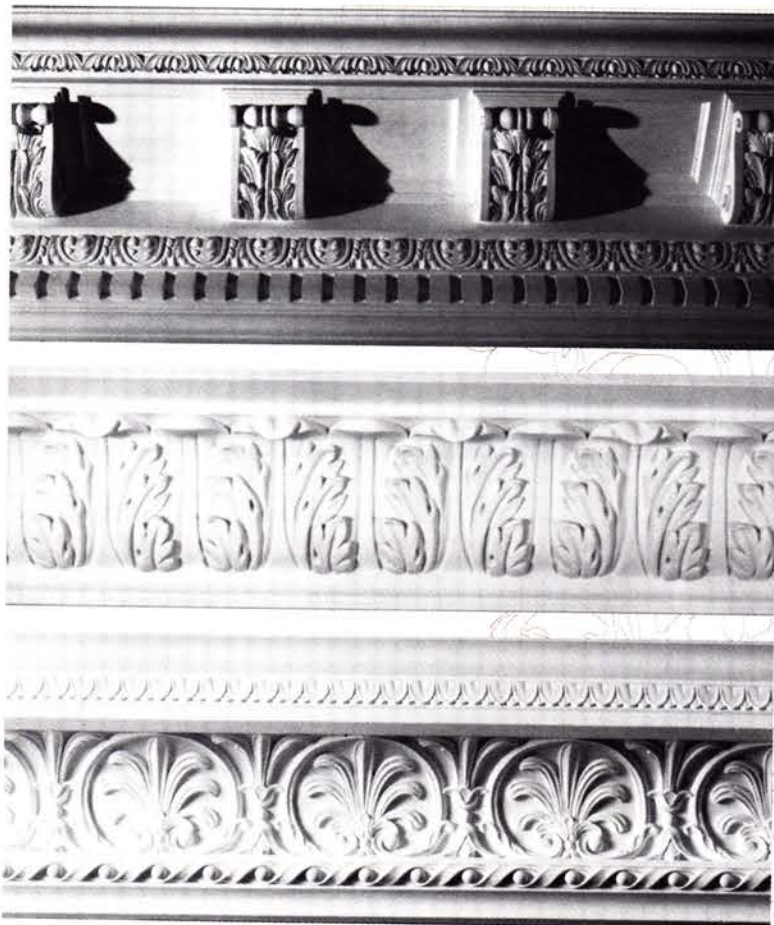
CLASSIC ARCHITECTURAL SPECIALTIES offers a wide variety of interior woodwork, including carved ornament, columns, and capitals. Write in No. 4200



CAMPBELLVILLE INDUSTRIES created the square fluted columns for the Muirhead Plaza clock tower in Dearborn, Mich. Write in No. 2750

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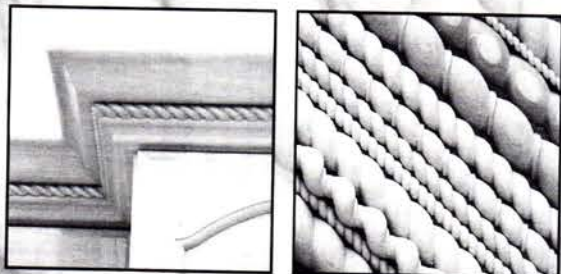
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WRITE IN NO. 660

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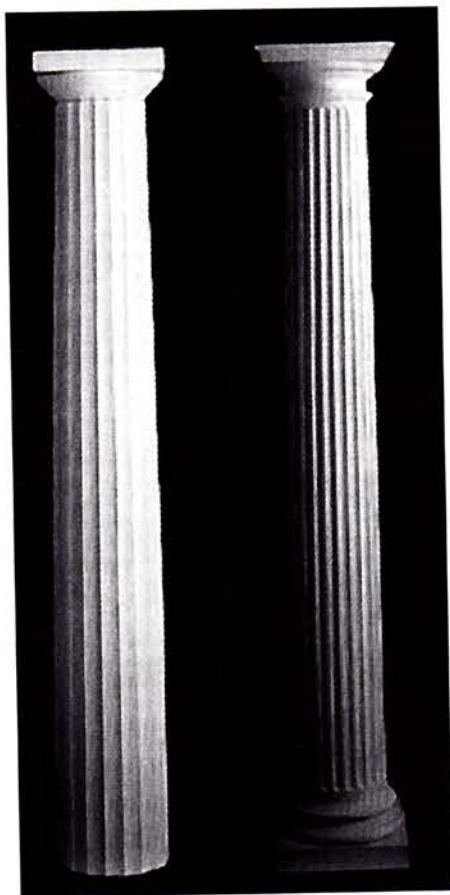
For full contact information on these companies, consult the SourceList on pp. 94-104.



MANOR STYLE's fiberglass columns and Durastyl PVC trim complement this addition to a country club dining area. *Write in No. 705*



CLASSIC INNOVATIONS supplied the round composite columns, capitals, and bases for this structure. *Write in No. 907*



Columns, capitals, and plinths are available from ARCHITECTURAL PRODUCTS BY OUTWATER in a variety of materials, including wood, fiberglass, aluminum, polyurethane, and polyethylene. *Write in No. 2555*



MILESTONE ARCHITECTURAL ORNAMENTATION custom made this cast-stone roped column and Scamozzi capital for an interior design studio in Mobile, Ala. *Write in No. 495*



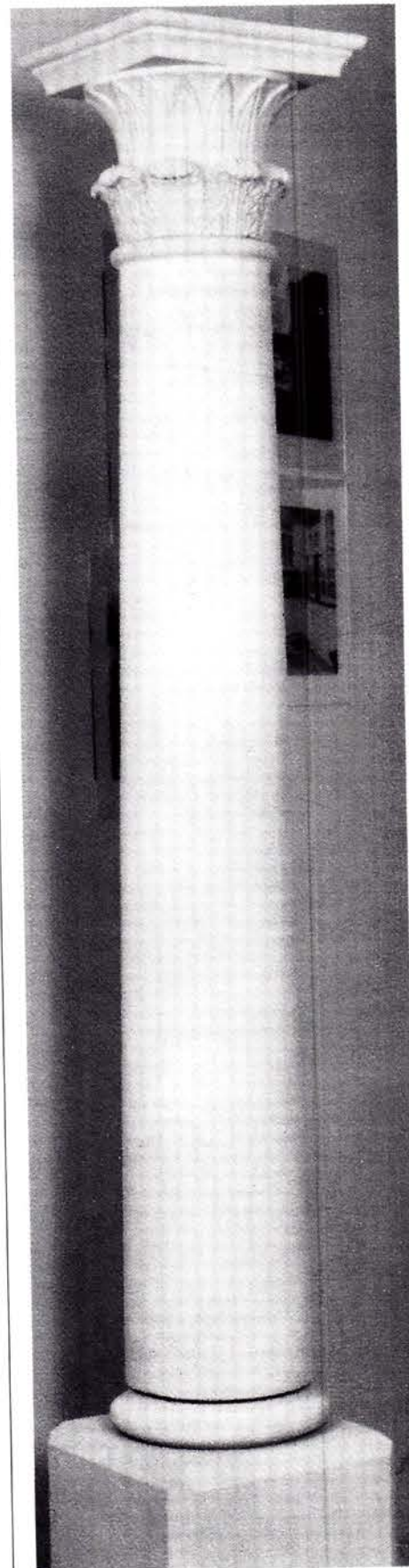
DEANGELIS IRON WORKS supplied and installed 12 cast-iron capitals for the recently completed exterior restoration of the Massachusetts State House. *Write in No. 1025*



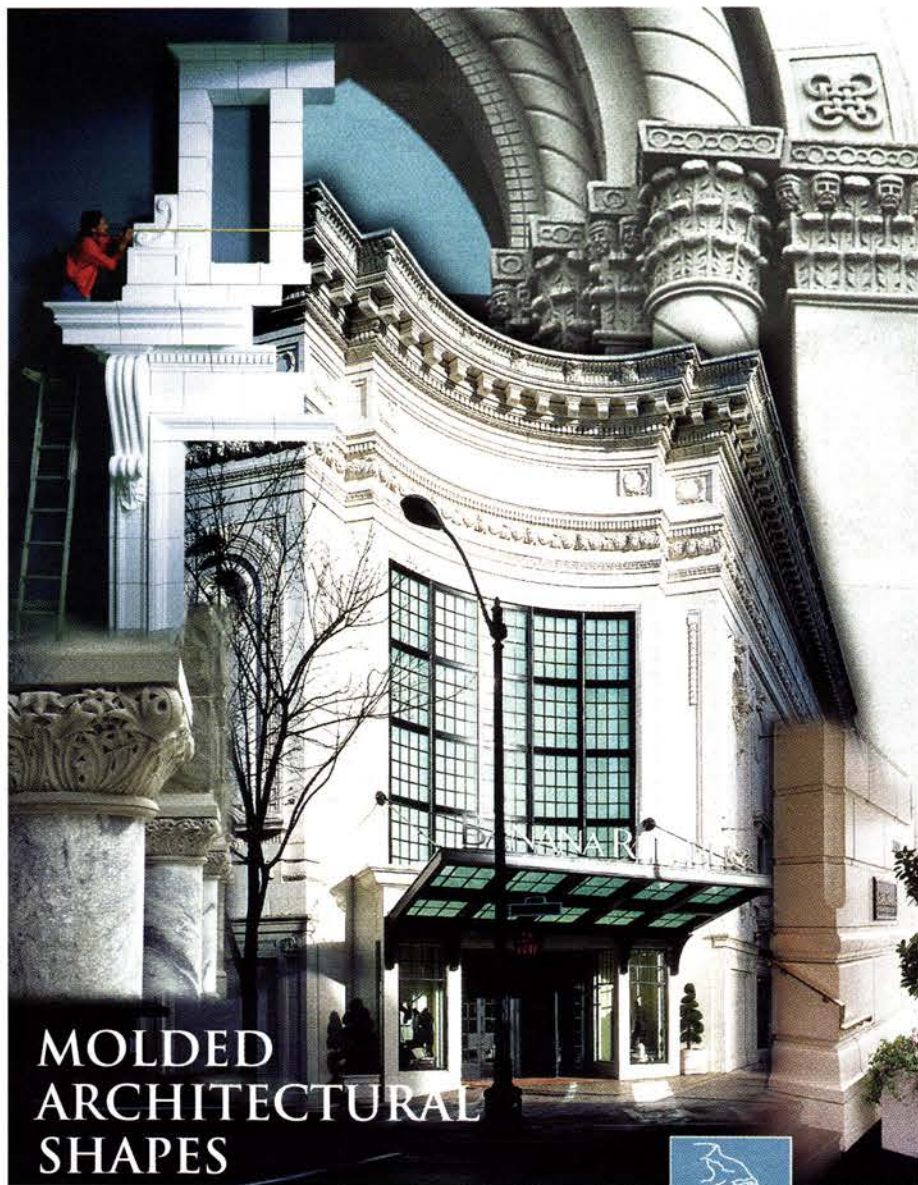
The Sienna medium rail from CLASSIC HERITAGE features 10-in. diameter molded limestone columns. *Write in No. 1192*



A variety of wood moldings and columns, such as this rope column, model #M1, can be acquired from MOHAMAD WOODTURNING. *Write in No. 50*



This Temple of Winds capital and tapered column were cut from natural stone by DIXIE CUT STONE & MARBLE. *Write in No. 279*



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Sculptor Shi-Jia Chen demonstrates a classical capital.

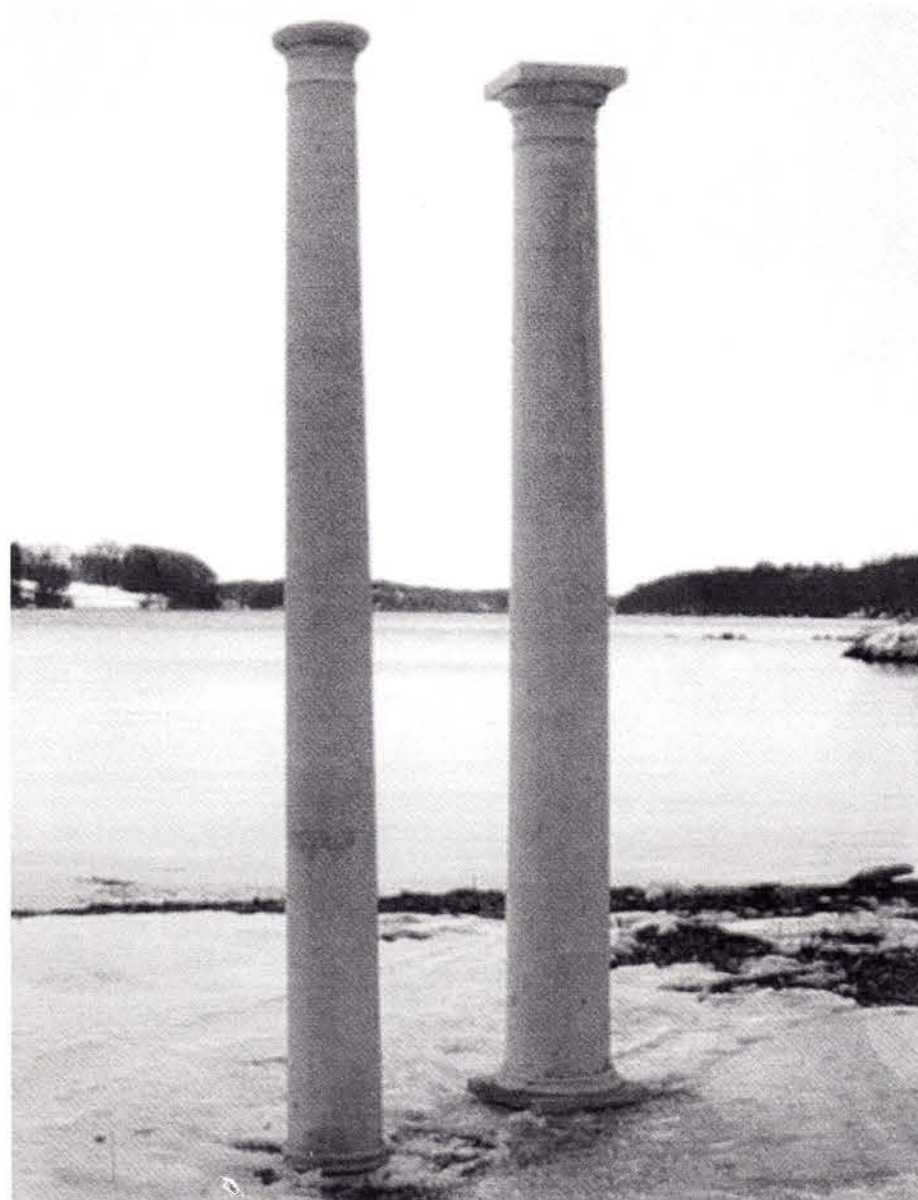
WRITE IN NO. 1009

COLUMNS & CAPITALS PORTFOLIO

For full contact information on these companies, consult the SourceList on pp. 94-104.



These Roman Doric columns with Attic bases were fabricated by FAGAN DESIGN & FABRICATION. *Write in No. 8210*



These 92-in. smooth tapered columns are among the many Victorian-era items available from ARCHITECTURAL ANTIQUITIES. *Write in No. 895*



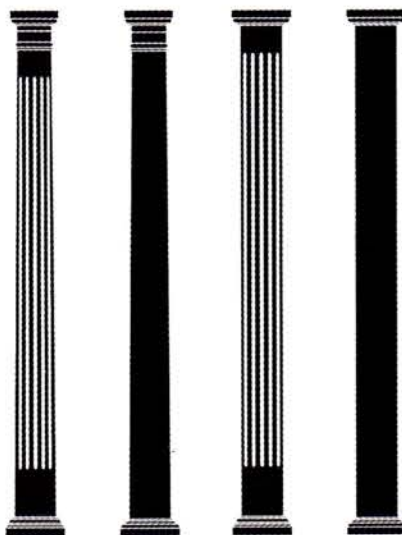
Carved capitals, such as this model #CTC6 which is 7-in. high and 9-in. square, are a specialty of CUMBERLAND WOODCRAFT. *Write in No. 1510*



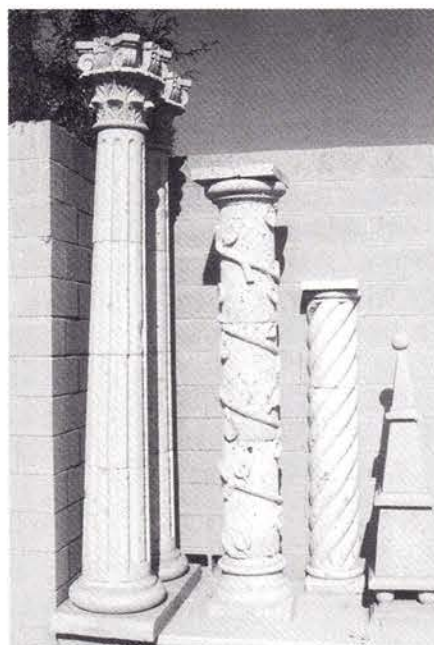
Replicas of thousands of designs, such as this Ionic Renaissance column, are included in the catalog of products offered by DECORATORS SUPPLY. *Write in No. 210*



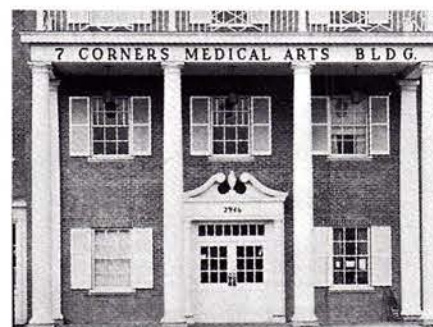
The Raffles Hotel in Singapore has ROBINSON IRON to thank for this intricate entrance canopy with crested, as well as the bar and billiard room verandahs and courtyard pavillions. *Write in No. 5240*



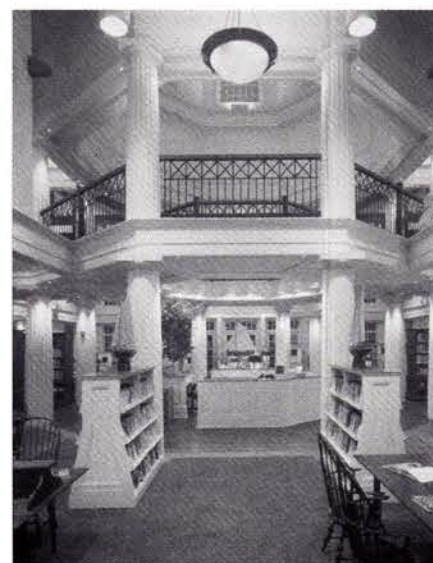
SUPERIOR MOULDING supplies a variety of columns, including tapered and non-tapered, fluted and non-fluted. *Write in No. 158*



ARTE IN STONE offers a variety of hand-carved cantera stone columns, such as these fluted, vine-wrapped, and twisted models.



These 20-ft.-tall wood columns from A.F. SCHWERD provide structural and aesthetic support for the exterior of the 7 Corners Medical Arts Building in Falls Church, Va. *Write in No. 1610*



CHADSWORTH'S 1-800-COLUMNS designed and made these fluted Greek Doric columns for the Poland Library in Poland, Ohio; they are part of the firm's Colossal line. *Write in No. 1580*



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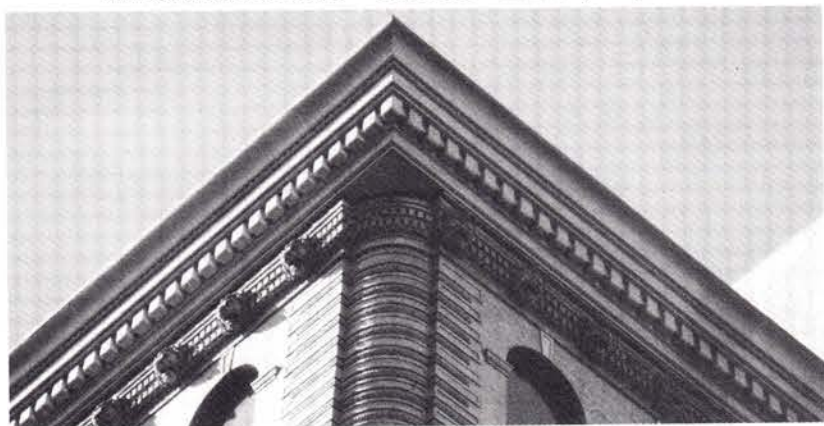
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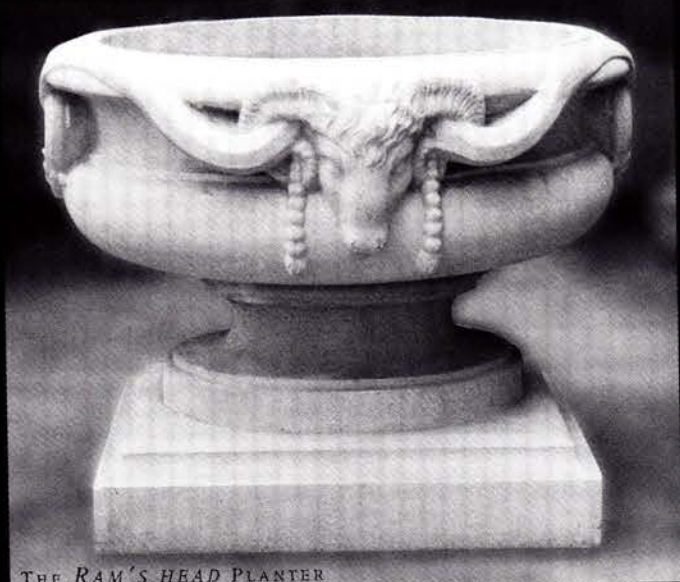
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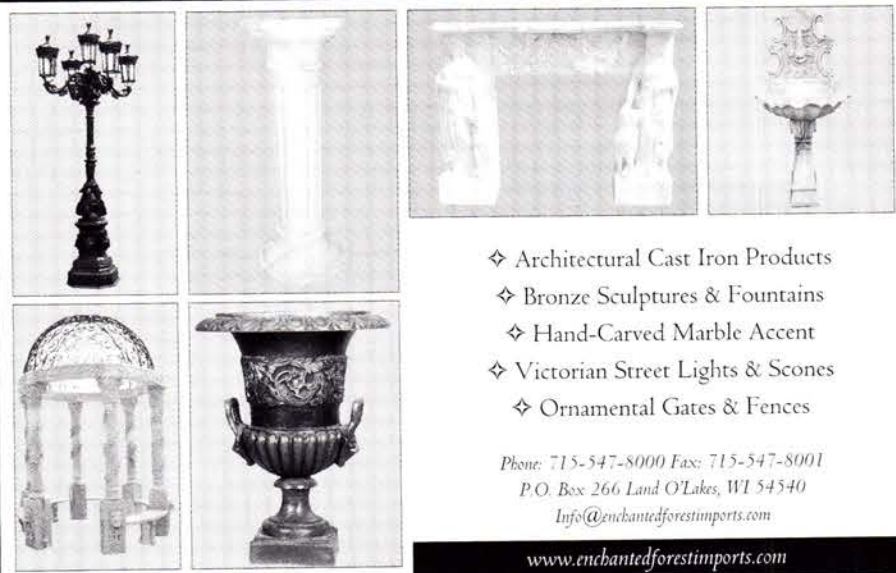
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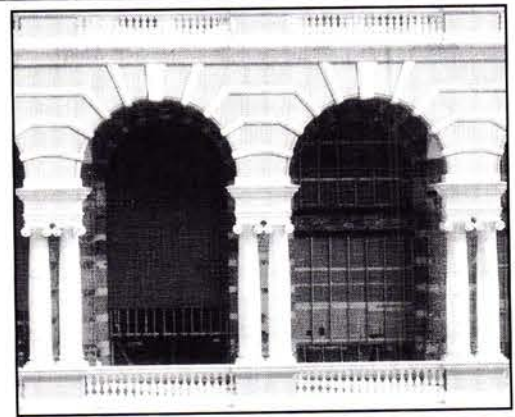
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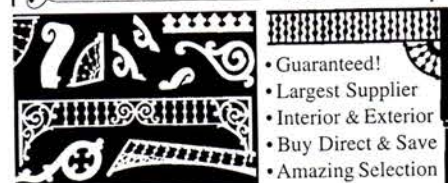
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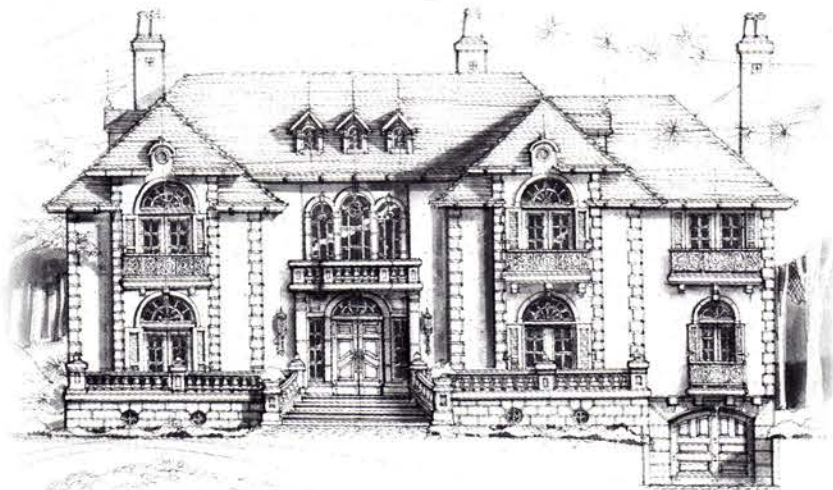
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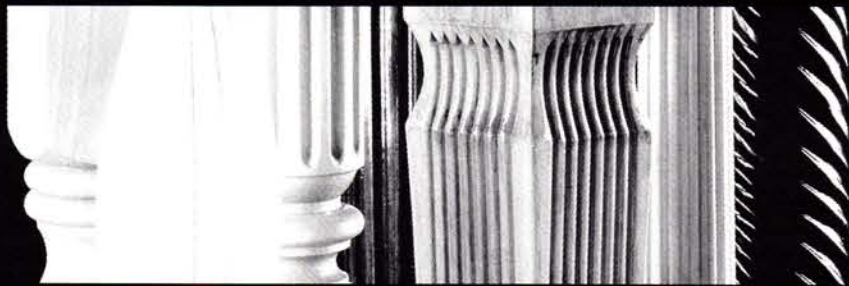
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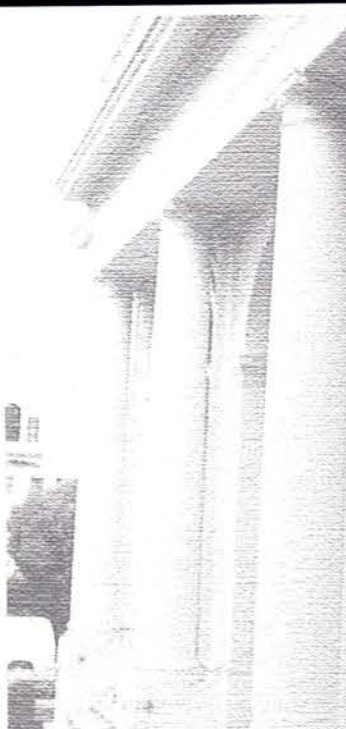
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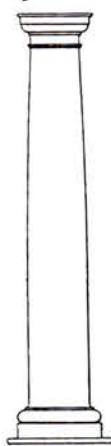
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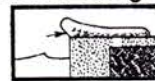
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Learn Preservation Crafts Down On The Farm

Blandair Farm, near Ellicott City, MD, is the site of the 7th annual gathering of the International Preservation Trades Workshops (IPTW), October 9-11, 2003. It's a unique opportunity for design and building professionals to network with experienced artisans in a wide range of preservation crafts.

The Preservation Trades Network (PTN) as a community is eight years old and coming up on its 7th gathering of the IPTW. Each year the PTN community learns something new as we bring our own lives, approaches, interests, and ideas to share with each other.

Regardless of your career track, if you have an interest in where the hands of preservation technique meet the materials of heritage fabric, then we encourage you to come along and add your individuality to the PTN community. We also encourage you to have a good

time in sharing your experiences, learning from your peers, and telling your preservation war stories.

Each gathering of the PTN community is an opportunity to examine the relationships that balance us as individuals with our community, that balance teaching and learning, and that balance finding opportunities with our making opportunities. Participation in PTN networking can create opportunities for you in your life.

Individuals active in PTN are involved in many different niches within the preservation community, including: Archeology, Architectural Conservation, Blacksmithing, Brick Masonry, Building Cleaning, Building Diagnostics, Building Moving, Cabinet Making, Carpentry, Cement, Charcoal Burning, Condition Surveys, Engineering, Exhibitions & Displays, Faux Finishing, General Contracting, Glazing, Government Agencies (Fed., State & Local),

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For more information on PTN, visit the PTN website at www.PTN.org. Or use the Form to become a member — and to get all the details about the October IPTW Workshop.

Building A Preservation Dream Team

As a member of PTN since 1996, I have come to know a great many highly skilled craftspeople in preservation. As a result, when my company was called to consider relocating one of Thomas Edison's laboratory buildings from Greenfield Village, MI, to the Edison National Historic Site at West Orange, NJ, I knew exactly who to call within the PTN community to bring together a Dream Team of the trades. Through my networking with PTN I am able to hand-pick and pull together a Dream Team for any of my projects. This approach insures that my team can easily meet the pre-qualification needs of a project as well as provide the client with the very best traditional craft knowledge available. — Ken Follett, PTN board member.

Preservation Trades Network dues are for the calendar year

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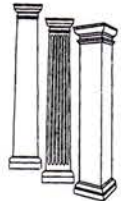
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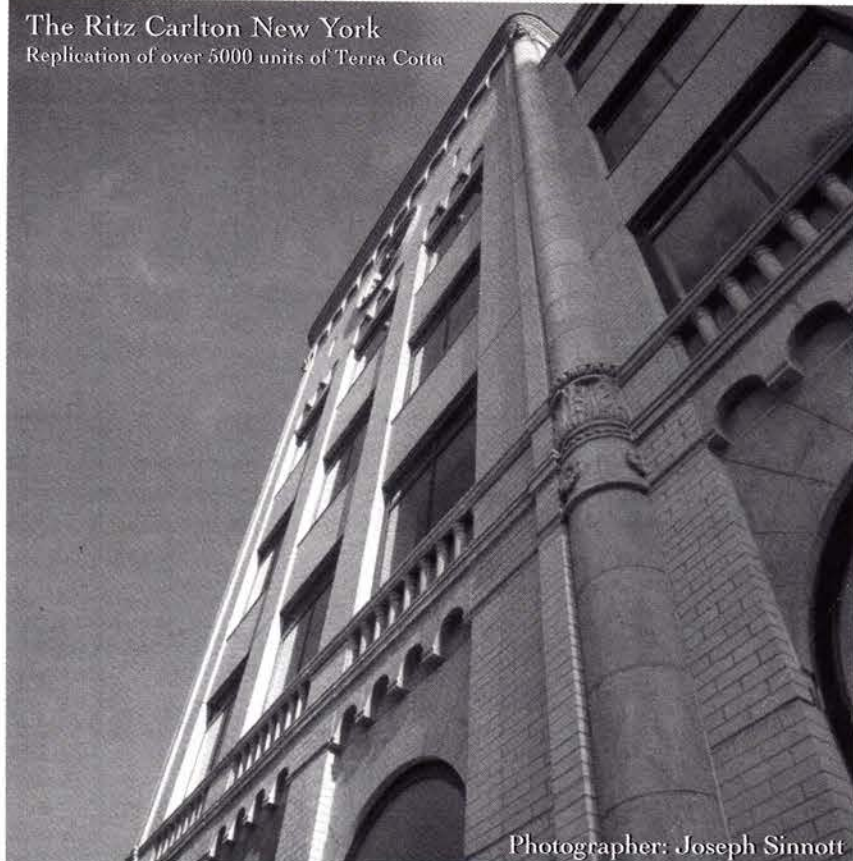
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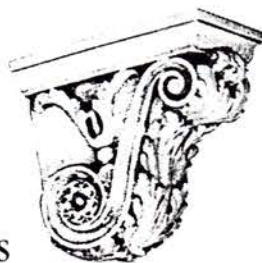
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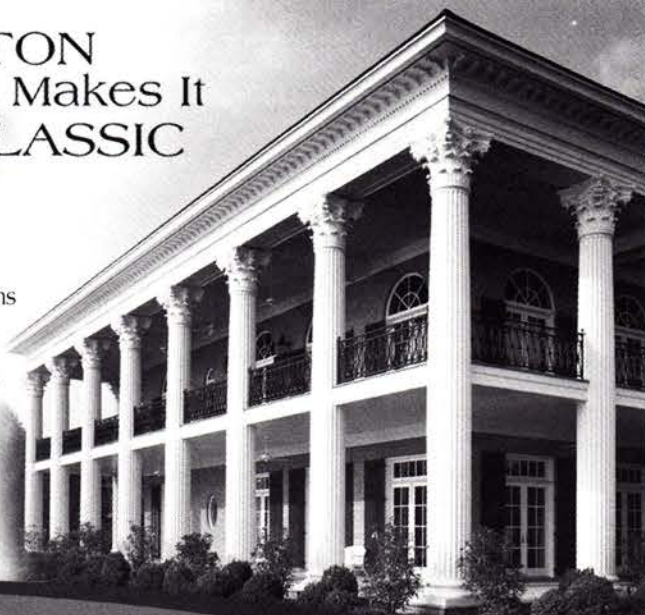
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INSTALLING A LEAD-SHEET ROOF THAT WILL LAST FOR CENTURIES

Lead-sheet roofs have been keeping the elements away for hundreds of years. Now recent improvements in installation and technical standards have made them even more durable.

by Frank Kiernan, President, Abernathy Company, Inc.

Lead sheet is the oldest and most durable metal roofing; when properly installed, it can last 200 years. A 1997 restoration project of a 15th-century church in England, for example, included the replacement of the lead-sheet roof and church documents indicate that the roof was last replaced in 1730. Much of the old lead removed was covered with graffiti left behind by the craftsmen who had worked on the roof over the years. They drew pictures or traced their hands and feet. The earliest date found on the lead was 1700 and the most recent was 1935.

Lead's resistance to atmospheric pollution and acid rain makes it ideally suited for roofing and for protecting stone cornices, copings, and other projections. Its extreme malleability also makes it an ideal material for dressing over complicated shapes and forms.

Lead is a non-ferrous metal, which makes it corrosion resistant. It will oxidize with exposure, developing a silver-gray patina that is insoluble in water. Because of this insolubility, rainwater runoff over a weathered lead surface carries little lead.

Improved Technical Standards

The Lead Sheet Association (LSA) in England has studied lead-roof failures over the years, and the result has been improved technical standards and installation procedures. As with any project, the key to a successful installation is proper planning, preparation, and design.

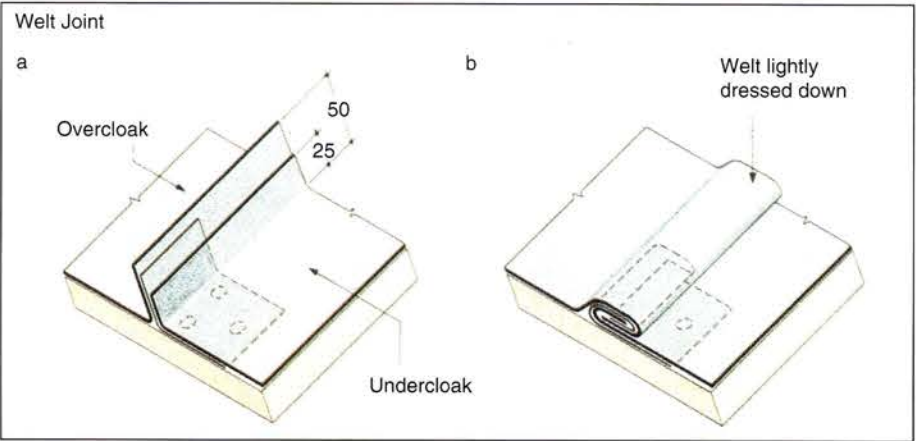
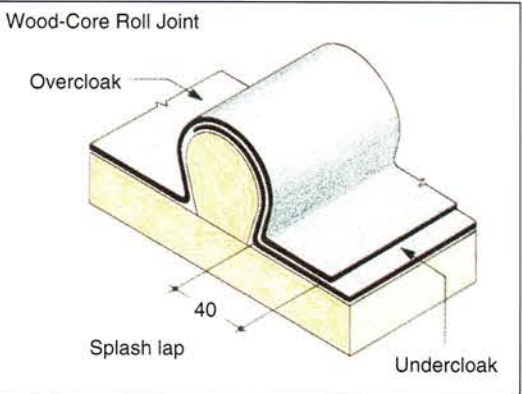
The LSA has found that most failures are due to using over-sized panels coupled with over-fixing. Lead roofing is usually fixed externally and is subject to changing temperatures. Lead has a high coefficient of linear expansion, and if thermal expansion and contraction cannot take place freely, there will be a risk of distortion and stress, which in time will cause the lead to buckle and crack.

It is important, as with all sheet metals, to limit the size of each piece so that the relatively small amount of thermal movement is accommodated within the jointing and fixing details. Recommendations on the maximum sizes of lead sheet are shown in the tables below. The general principle is the thinner the lead, the smaller the piece.

For identification purposes, codes have been assigned for each thickness of lead sheet based on the nominal weight per square foot. Code 4 lead is normally used for flashing, Codes 5 and 6 for roofing, parapets, and copings. Codes 7 and 8 are used for historic structures, valleys, gutters, and areas subject to extreme weather conditions.

The most common joints used are the solid-core wood roll and the welt. The wood core roll joint is used for flat and pitched roofing as well as lead cladding. The undercloak is nailed to the wood roll, equally spaced, for the top one-third of the sheet. The over-cloak is dressed against the wood roll, but is not nailed.

CODE	THICKNESS		NOMINAL
	MM	INCHES	WEIGHT/SF
3	1.32	.047	3 lbs.
4	1.80	.062	4 lbs.
5	2.24	.078	5 lbs.
6	2.65	.093	6 lbs.
7	3.15	.094	7 lbs.
8	3.55	.125	8 lbs.



Installed around 1935, the East Jersey State Prison was an example of what happens when a lead roof is incorrectly installed. It was suffering from battens that didn't allow for any lateral movement of the lead, causing fatigue and increased elongation of the sheets. In addition, the battens were the wrong size and shape and the wrong code of lead was used.



Abernathy Co. removed the existing lead, wood battens, and underlayment on the East Jersey State Prison roof before installing a new lead roof. It includes a non-woven geotextile fabric on top of an ice/water shield. The fabric acts as a slip sheet under the lead, allowing air circulation between the lead and the ice/water shield. This prevents a buildup of condensation on the underside of the lead.

The welt joint begins as a typical standing seam and is then flattened. As with other metal roofing, it is affixed to the substrate with copper clips equally spaced in the joint. The spacing is dependent on the code and size of the panel.

One of my firm's recent projects, the East Jersey State Prison in Rahway, N.J., is an example of an incorrect wood roll joint installation. The before photo (top) shows the existing lead roof installed around 1935, which replaced the original copper roof. It was most likely installed by a sheet metal contractor not fully experienced with lead. This resulted in poor design. The battens were the wrong shape and size, the fastening was inadequate and improperly installed, the wrong code lead was used, and the sheet sizes were much too large. The battens did not allow for any lateral movement of the lead, which caused fatigue and increased elongation of the sheets. The underlayment was incorrect, but most likely that was all that was available at the time.

We removed the existing lead, wood battens, and underlayment. An ice/water shield was installed as temporary waterproofing. A nonwoven geotextile fabric was installed on top of the ice/water shield. This material acts as a slip sheet under the lead and allows for air circulation between the lead and the ice/water shield. This helps prevent a buildup of condensation on the under-side of the lead.

The LSA has formulated the tables below to help select the correct sheet sizes for your project.

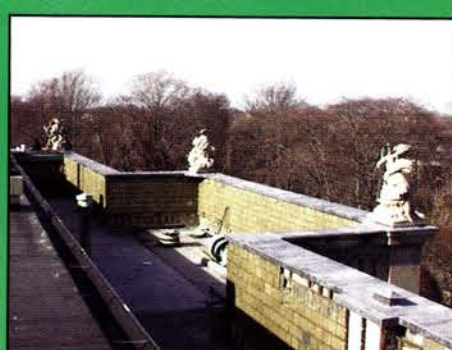
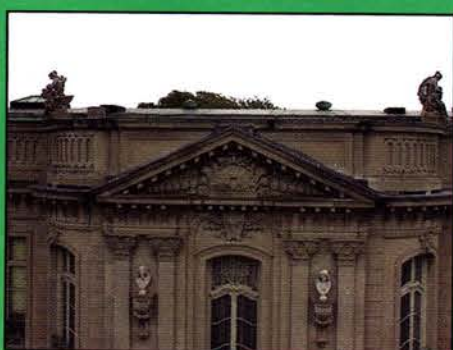
ROOF SLOPES - UP TO AND INCLUDING 10 DEGREES				
	MAX. SPACING		MAX DISTANCE	
	OF JOINTS		BETWEEN LAPS	
CODE	MM	INCHES	MM	INCHES
4	600	19.70	1,500	59
5	675	23.64	2,000	78.8
6	675	26.60	2,250	88.65
7	3.55	26.60	2,500	98.5
8	3.55	26.60	3,000	118.5

ROOF SLOPES - 10 DEGREES UP TO 60 DEGREES				
	MAX. SPACING		MAX DISTANCE	
	OF JOINTS		BETWEEN LAPS	
CODE	MM	INCHES	MM	INCHES
4	600	19.70	1,500	59
5	675	23.64	2,000	78.8
6	675	26.60	2,250	88.65
7	3.55	26.60	2,400	94.56
8	3.55	26.60	2,500	98.5

Correctly sizing your sheets is only the first step. It is also important that the fastening be designed so it will not restrict thermal movement, but must be adequate to support the lead and, depending on the degree of exposure, retain it in position. Lead sheet should have the continuous support of a smooth decking or substrate material.

Roofing felts with a bituminous surface or organic fibers with a bonding agent can become sticky in hot weather and cause the lead to be bonded firmly to the substrate. Placing a non-woven geotextile or equal between the felt and the lead is essential. The use of a Class A building paper is acceptable,

continued on page 118



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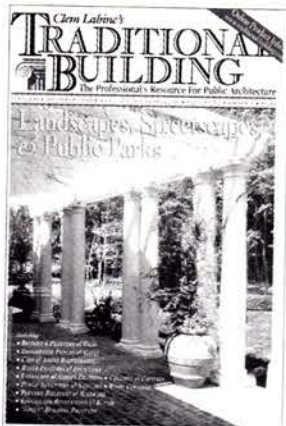
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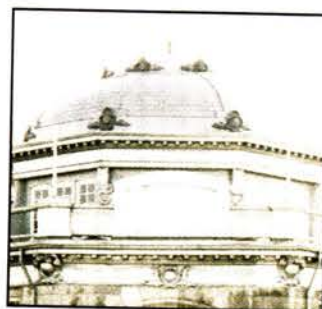
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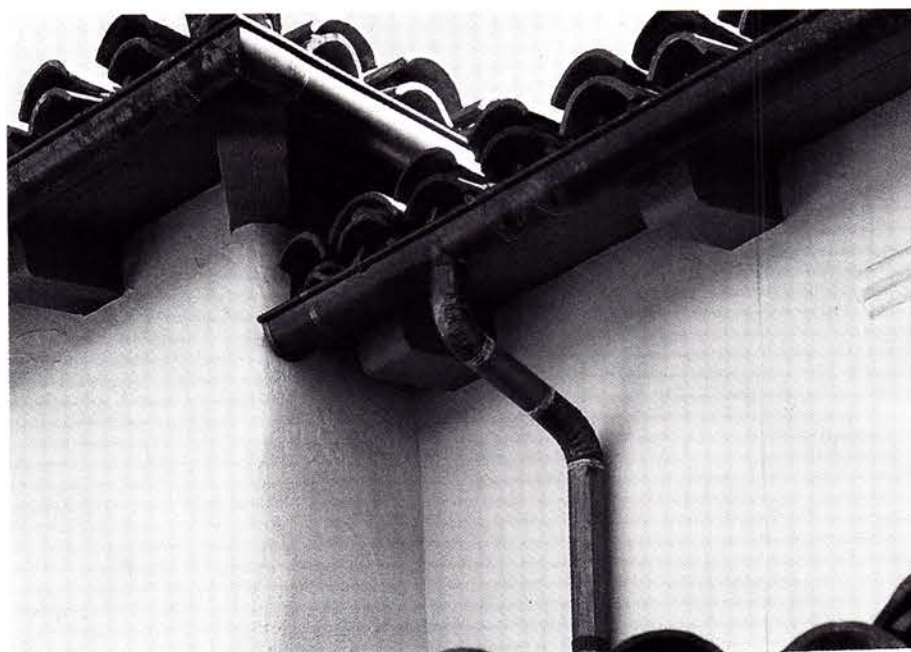
www.traditional-building.com

METAL ROOFING PORTFOLIO

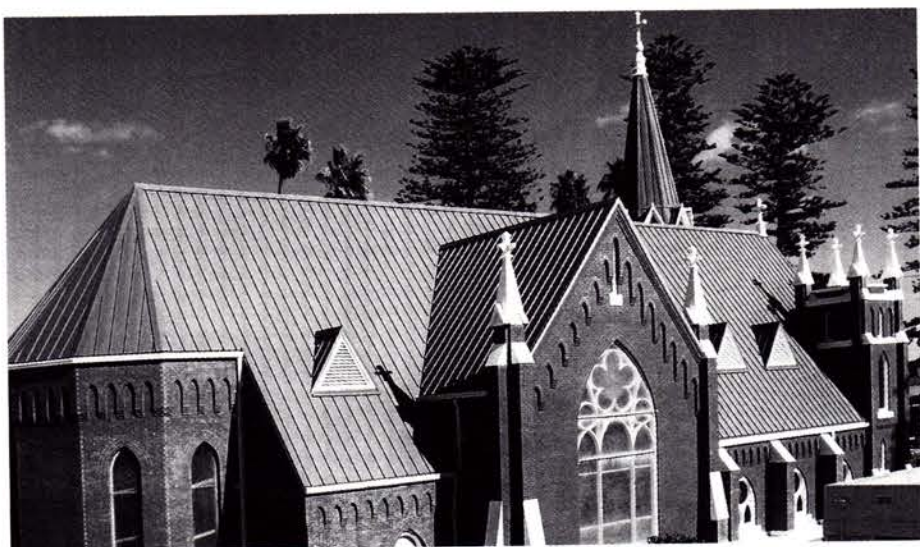
For full contact information on these companies, consult the SourceList below and on p. 122.



For the 200-year-old Christ Church in Washington, D.C., ATAS INTERNATIONAL manufactured 15-in.-wide standing-seam panels. Write in No. 1450



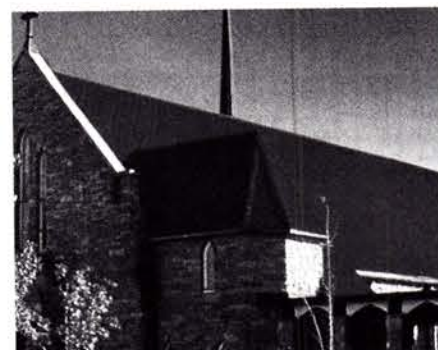
C&J METAL PRODUCTS fabricated this 3-in. downspout and 5-in. half-round gutter with radius surface in 16-oz. copper. Write in No. 596



CUSTOM-BILT METALS supplies all types of metal roofing products and rain-gutter systems in aluminum, copper, and steel. Write in No. 598



BASHNAGEL BROS. manufactured and installed this sheetmetal dome and cupola. Write in No. 1012



REINKE SHAKES crowned this church in Longmont, Colo., with metal shakes. Write in No. 1546



TRADITIONAL BUILDING METAL ROOFING SourceList

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CSI#04720

COMPANY	SPECIALTY	Literature	Types					Materials							Roofing Specialties				
			Standing Seam	Square Batten	Flush Panel	Tile/Shingle	Other	Aluminum	Copper	Galvanized	Painted Steel	Terne	Zinc	Other	Conductors	Flashing & Trim	Patinas & Coatings	Other	
Abernathy Co., Inc. 610-874-8175; Fax: 610-874-5287 P.O. Box 326 Eddystone, PA 19016	Installer of lead roofing: all types, sheet, shingle.	Free Write in No. 1420	✓	✓	✓	✓								Lead					
American Eagle Roofing / Mayco Industries 800-749-6061; Fax: 205-945-8704 www.maycoindustries.com Birmingham, AL 35209	Supplier of traditional, long-lasting lead-sheet roofs for projects where attractive life-cycle costing is required.	Free Write in No. 403	✓	✓	✓	✓								Lead					
ATAS International, Inc. 800-468-1441; Fax: 610-395-9342 www.atas.com Allentown, PA 18106	Manufacturer of architectural building panels, metal roofs, soffit systems, accessories & sheet stock: roofing in standing seam; simulated European- & Spanish-style tile & simulated shakes & shingles.	Free Write in No. 1450	✓	✓	✓	✓	Soffit Panels	✓	✓	✓	✓		✓		✓	✓			
Baschnagel Brothers 718-767-1919; Fax: 718-767-5141 150-25 14th Ave. Whitestone, NY 11357	Manufacturer & installer of metal roofing: fabrication & installation of all types of ornamental copper gutters, leaders & more; works with Landmarks Conservancy.	Free Write in No. 1012	✓	✓	✓	✓			✓		✓	✓	✓		✓	✓	✓	Gutters & Leaders	
C&J Metal Products 800-500-8660; Fax: 562-634-8823 www.cjmetals.com Long Beach, CA 90805	Manufacturer & supplier of architectural sheetmetal elements: roof dormer vents, finials, spires, dormers, canopies, leaderheads & chimney tops; restoration & duplication.	Free Write in No. 596													✓	✓		Dormer Vents	
Campbellsville Industries 800-467-8135; Fax: 270-465-6839 www.cvilleindustries.com Campbellsville, KY 42718	Fabricator of architectural metalwork: columns, steeples, cupolas, domes, street & tower clocks, cornices, balustrades, railings, finials, dormers, urns & balls.	Free Write in No. 2730																Cornices	

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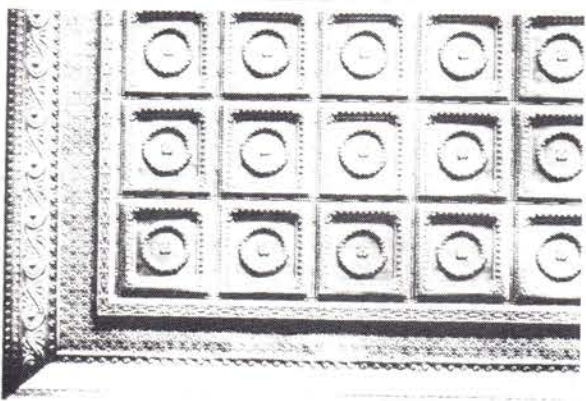
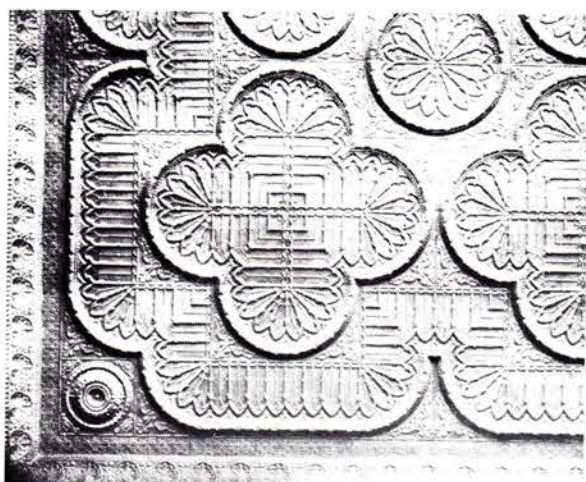
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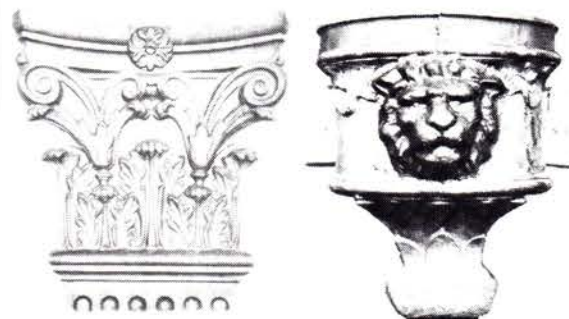
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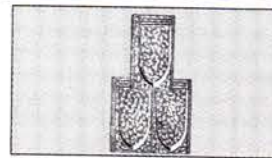
- ★ Cornices ★ Moldings ★ Capitals ★ Brackets ★ Corbels ★
Rosettes ★ Balusters ★ Urns ★ Festoons ★ Finials ★
Scrolls ★ Leaves ★ Friezes ★ Glass pendant frames ★
Cresting ★ Garlands ★ Panel Ornaments ★ Lion Heads ★
Conductor heads & fittings



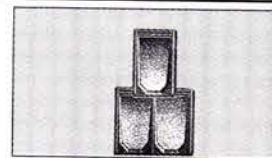
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TRADITIONAL BUILDING METAL ROOFING SourceList

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COMPANY	SPECIALTY	Literature	Types					Materials							Roofing Specialties			
			Standing Seam	Square Batten	Flush Panel	Tile/Shingle	Other	Aluminum	Copper	Galvanized	Painted Steel	Terne	Zinc	Other	Conductors	Flashing & Trim	Patinas & Coatings	Other
Copper Craftsman, Inc. 646-533-4355; Fax: 954-941-2382 www.copper-craftsman.com Pompano Beach, FL 33062	Supplier of copper & sheetmetal services: copper roofs, cupolas, dormers, weather-vanes, cornices, conductor heads, domes, finials, gutters, louvers, chimney caps, canopies & more.	Free Write in No. 746	✓			✓	Soffit Panels		✓						✓	✓	✓	Cornices & Ornament
CopperCraft, Inc. 800-486-2723; Fax: 817-490-9661 www.coppercraft.com Keller, TX 76248	Manufacturer of sheetmetal products: spires, finials, louvers, dormers, weather-vanes, cupolas, conductor heads, cornices, cladding, chimney caps, canopies & more.	Free Write in No. 1490	✓	✓	✓	✓	Soffit Panels	✓	✓	✓			✓	Lead-Coated Copper	✓	✓		Cornices & Dormer-Vent Ornament
Custom-Bilt Metals 800-826-7813; Fax: 626-454-4785 www.custombiltmetals.com So. El Monte, CA 91733	Supplier of metal roofing products & rain gutter systems: installation training schools lead generation programs.	Free Write in No. 598	✓	✓		✓	Soffit Panels	✓	✓	✓	✓				✓	✓	✓	Gutter Systems
Durable Slate Co., The 800-666-7445; Fax: 614-299-7100 www.durableslate.com Columbus, OH 43201	Distributor of roofing: clay, concrete, slate & rigid mineral fiber; reclaimed, new & custom manufactured; steeples, weather-vanes & finials.	Free Write in No. 3720	✓	✓					✓					Lead-Coated Copper	✓	✓		Cornices & Ornament
Excalibur Stainless 814-756-4925; Fax: Same as phone www.stainlessshingles.com Albion, PA 16401	Manufacturer of durable roofing shingles & flashing made of 20-gauge stainless material: anchoring system utilizes stainless-steel screws.	Free				✓								Stainless Steel		✓		
Heather & Little, Ltd. 800-450-0659; Fax: 905-475-9764 www.heatherandlittle.com Markham, ON, Canada L3R 0H1	Custom fabricator & supplier of sheetmetal roofing & specialty architectural sheetmetal: finials, cornices, lionheads, cresting, canopies, shingles, siding, cupolas, steeples, domes & snowguards; reproductions; custom metal windows.	Free Write in No. 2470	✓	✓	✓	✓	Soffit Panels	✓	✓	✓	✓	✓	✓	Galvalume, Lead-Coated Copper & Terne-Coated Stainless	✓		✓	Cornices, Metal-Tile Panels & Ornament
Interlock Industries 800-726-0019; Fax: 847-593-5302 2951 Old Higgins Rd. Elk Grove Village, IL 60007	Manufacturer & installer of metal roofing systems: architectural designs; custom installation; copper, aluminum & zinc; shingles & clay tile styles.	Free Write in No. 1183	✓		✓			✓	✓	✓	✓		✓			✓		
Liner Rolpanit, Inc. 905-707-7087; Fax: 905-707-0086 www.linrol.com Thornhill, ON, Canada L3T 1N7	Supplier of information & material for repair & conservation of historic buildings: mortar mills, lime mortars, DHL injection mortars & shelter coats, repair mortars & Keim silicate paints; breathable roofing underlayment.	Free Write in No. 1343																Vapor-Permeable Roofing Underlay
NIKO Contracting Co., Inc. 412-687-1517; Fax: 412-687-7969 www.nikocontracting.com Pittsburgh, PA 15213	Custom fabricator/contractor of sheetmetal & roofing: historic restoration; all types of sheetmetal, slate, tile & other historic roofing: snowguards, cupolas, domes & steeples; copper, lead-coated copper, zinc, stainless & more.	Free Write in No. 8300	✓	✓	✓	✓	Soffit Panels	✓	✓	✓	✓	✓	✓	Lead-Coated Copper, TCSII & Stainless Steel	✓	✓	✓	Cornices, Marquees & Store-Front Ornament
Ornametals, LLC 256-350-7410; Fax: 256-309-5921 www.ornametals.com Decatur, AL 35601	Fabricator & distributor of architectural ornament: finials, cupolas, cornices, crosses, weathervanes & more; copper & zinc.	Free Write in No. 5025							✓				✓					Cornices
Park City Rain Gutter 435-649-2805; Fax: 435-649-2605 www.pcraingutter.com Park City, UT 84068	U.S. distributor of Minoletti half-round-gutter products: classic products designed for easy installation; spherical end caps, smooth downspout elbows, yoke-style outlets; copper & zinc.	Free Write in No. 957							✓				✓					Rain Gutters
Patina Finishes & Copper Coats, Inc. 800-882-7004; Fax: 619-683-7901 www.patinafinishes.com San Diego, CA 92110	Manufacturer of water-based metallic coatings: for all surfaces (walls, roofing & other); copper, brass, bronze & pewter; patina solutions for interior & exterior; green, blue, black & burgundy.	Free Write in No. 71															✓	
Reinke Shakes, Inc. 402-365-7521; No Fax www.reinkeshakes.com Hebron, NE 68370	Manufacturer of aluminum & copper roof coverings: can be installed on new or existing construction; Reinke 3-Tab Cover can be installed over the standard 3-tab asphalt shingle; in seven colors & copper.	Free Write in No. 1346				✓		✓	✓							✓		Nails
Revere Copper Products, Inc. 800-448-1776; Fax: 315-338-2105 One Revere Park Rome, NY 13440	Manufacturer of Freedom Gray architectural sheet copper: coated on both sides with a patented zinc-tin alloy that offers all the advantages of copper in a naturally weathering earth-tone gray color; easier to form & simpler to install than zinc.	Free							✓									
W.F. Norman Corp. 800-641-4038; Fax: 417-667-2708 www.wfnorman.com Nevada, MO 64772	Manufacturer of sheetmetal ornament: hundreds of stock designs of cornices, moldings, brackets, pressed-metal ceilings & roofing, siding, finials & more; duplication from samples or drawings; zinc, copper & lead-coated copper.	Free Write in No. 520							✓				✓	Lead-Coated Copper		✓		Cornices

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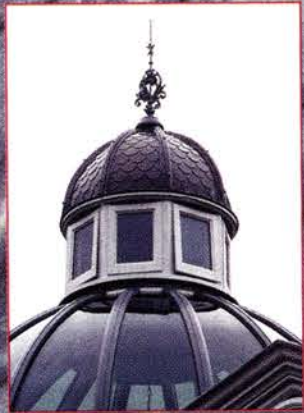
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WRITE IN NO. 1340



TRADITIONAL BUILDING TILE ROOFING SourceList

COMPILED BY HADIYA STRASBERG

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About the SourceList and Portfolio

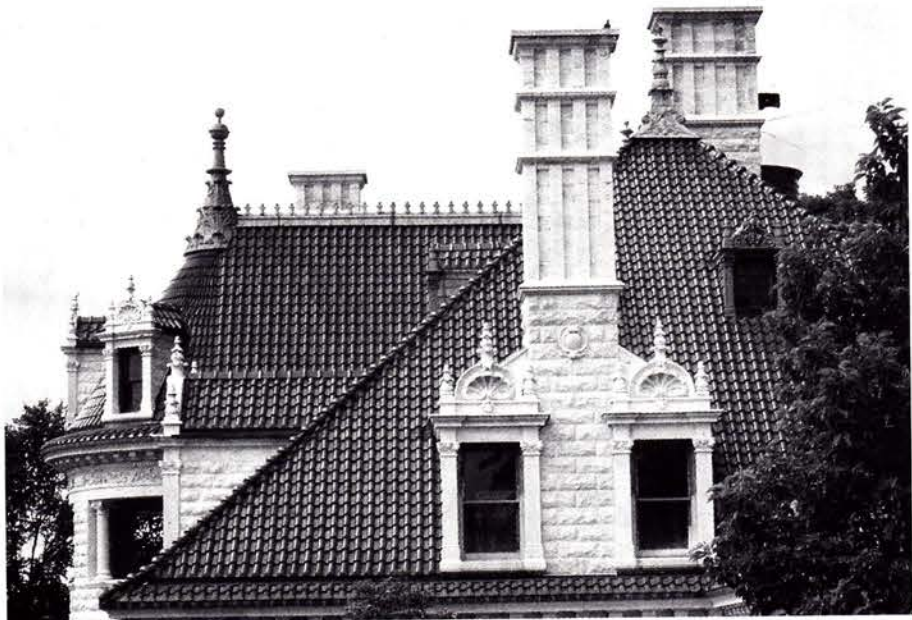
To create this SourceList and the Portfolio that accompanies it, the Editors contacted suppliers of Tile Roofing from our database of companies that provide historical products and services to our audience of design and building professionals. From the companies' responses, the Editors selected the

suppliers you'll find below because they provide a good up-to-date cross-section of the market, both geographically and in the variety of their offerings. The Portfolio of products and services available from the companies listed here begins on page 126.

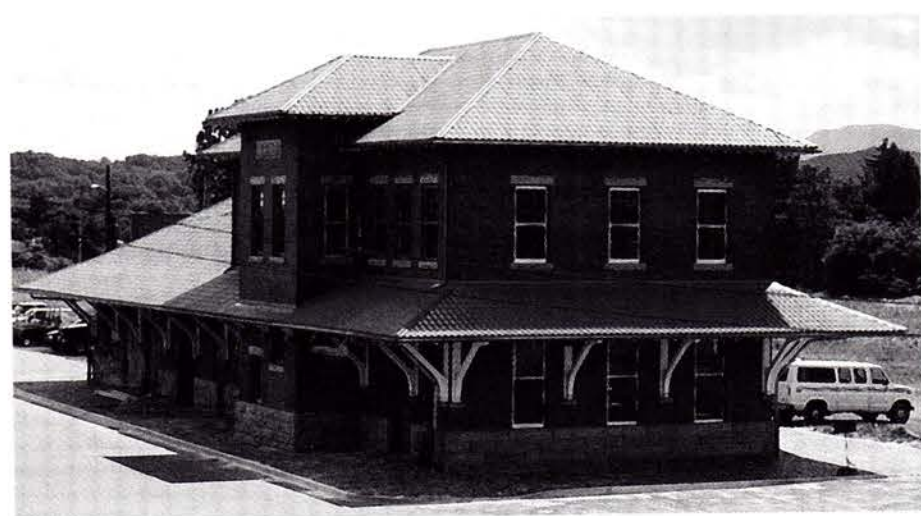
COMPANY	SPECIALTY	Literature	Roofing Tile										Installation Services	Roofing Tools	Tile-Roof Repair Contracting	Tile Fasteners	Other
			Clay and/or Terra Cotta	Concrete	Fiber-Cement	Metal-Tile Systems	Custom Colors	Custom Shapes	Custom Textures	Handmade Roofing Tile	Salvaged Tiles	Other					
Bartile Roofs, Inc. 800-933-5038; Fax: 801-295-3485 725 North, 1000 West Centerville, UT 84014	Supplier of custom color-blended lightweight concrete roof tile: interlocking turret tile; over 300 colors & 9 different profiles.	Free Write in No. 1723		✓			✓	✓	✓								
Boston Valley Terra Cotta 716-649-7490; Fax: 716-649-7688 www.bostonvalley.com Orchard Park, NY 14127	Custom fabricator of architectural terra cotta: columns, cornices, capitals & roof tile; site & survey work.	Free Write in No. 160	✓				✓	✓	✓	✓							
Durable Slate Co., The 800-666-7445; Fax: 614-299-7100 www.durableslate.com Columbus, OH 43201	Distributor of roofing: clay, concrete, slate & rigid mineral fiber; reclaimed, new & custom manufactured; steeples, weathervanes & finials.	Free Write in No. 3720	✓				✓	✓	✓	✓	✓		✓		✓		
Gladding, McBean—Div. of Pacific Coast Bldg. 800-776-1133; Fax: 916-645-1723 www.gladdingmcbean.com Lincoln, CA 95648	Traditional producer of terra cotta: roof tile, chimney tops & caps, flue liners, facades, pavers & sewer pipes; glazed pottery & wall coping in standard or custom designs; CAD drawings & glaze-color matching.	Free Write in No. 6010	✓				✓	✓	✓	✓		Glazed				✓	
Liner Rolpanit, Inc. 905-707-7087; Fax: 905-707-0086 www.linrol.com Thornhill, ON, Canada L3T 1N7	Supplier of information & material for repair & conservation of historic buildings: mortar mills, lime mortars, DHL injection mortars & shelter coats, repair mortars & Keim silicate paints; breathable roofing underlayment.	Free Write in No. 1343										Roofshield Vapor-Permeable Roofing Underlay					
Ludowici Roof Tile, Inc. 800-917-8998; Fax: 740-342-5175 www.ludowici.com New Lexington, OH 43764	Manufacturer of clay roof tiles: restoration & new work; many patterns, finishes & colors; good freeze/thaw properties; low moisture absorption; 75-year limited warranty.	Free Write in No. 2760	✓				✓	✓	✓	✓						✓	
Met-Tile Inc. 800-899-0311; Fax: 909-947-1510 www.met-tile.com Ontario, CA 91761	Manufacturer of sheet-metal roofing panels: simulate the look of Spanish tile; lightweight, durable, easy to install, low maintenance, weather resistance withstanding 230+ mph winds.	Free				✓											
Renaissance Roofing, Inc. 800-699-5695; Fax: 815-547-1425 www.claytileroof.com Rockford, IL 61125	Restorer of historic tile & slate roof systems: slate roofing materials; new & salvaged tiles; custom copper work; church work.	Free Write in No. 3710	✓	✓	✓	✓	✓	✓	✓	✓	✓	Slate	✓	✓	✓	✓	Custom Metal Flashings
Richmond Precast Concrete Products Co. 804-231-0100; Fax: 804-231-0353 2207 Commerce Rd. Richmond, VA 23234	Manufacturer of flat concrete shingle tile: various colors & textures; tiles can be customized to resemble wood, slate, or other materials.	Free Write in No. 6340		✓			✓	✓	✓		✓						
Roof Tile & Slate Co. 800-446-0220; Fax: 972-242-1923 www.vermontslate.com Carrollton, TX 75006	Supplier of clay tile & slate flooring & roofing: pavers & trim; custom blending; historic projects; new & salvage tile; field tiles & trim are palletized & ready to ship.	Free Write in No. 9560	✓								✓						
The Tile Man 919-853-6923; Fax: 919-853-6634 www.thetileman.com Louisburg, NC 27549	Supplier of Vintage Tile (including trim) to match any existing clay-tile rooftop: clay roofing tile, concrete roofing tile & slate; consultation, installation advice & identification are free services.	Free Write in No. 4420	✓	✓			✓	✓	✓	✓	✓	Glazed					
Tile Roofs, Inc. 888-708-8453; Fax: 708-479-7865 www.tileroots.com Frankfort, IL 60423	Supplier of salvaged clay roof tiles & slate roofing: exact matches of tiles for repair & restoration; large quantities for new roofing.	Free Write in No. 4570	✓	✓	✓		✓	✓	✓	✓	✓		✓		✓		
Vande Hey-Raleigh Mfg. 800-236-8453; Fax: 920-766-0776 www.vhr-roof-tile.com Little Chute, WI 54140	Manufacturer of recycled clay, concrete & natural slate roofing: new tile, 9 styles, 20 standard colors & surfaces; for restoration & new construction.	Free Write in No. 2840		✓			✓	✓	✓	✓	✓		✓				

TILE ROOFING PORTFOLIO

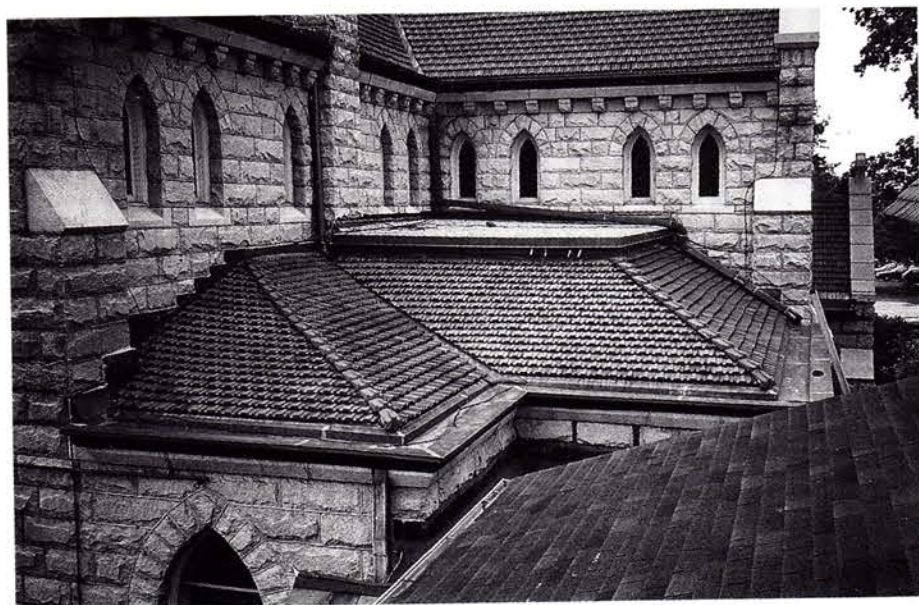
For full contact information on these companies, consult the SourceList on p. 125.



Custom-glazed clay roof tiles from GLADDING, MCBEAN were used to create a textured expanse for Morrison Hall at Orange County Community College in Middletown, N.Y. *Write in No. 6010*



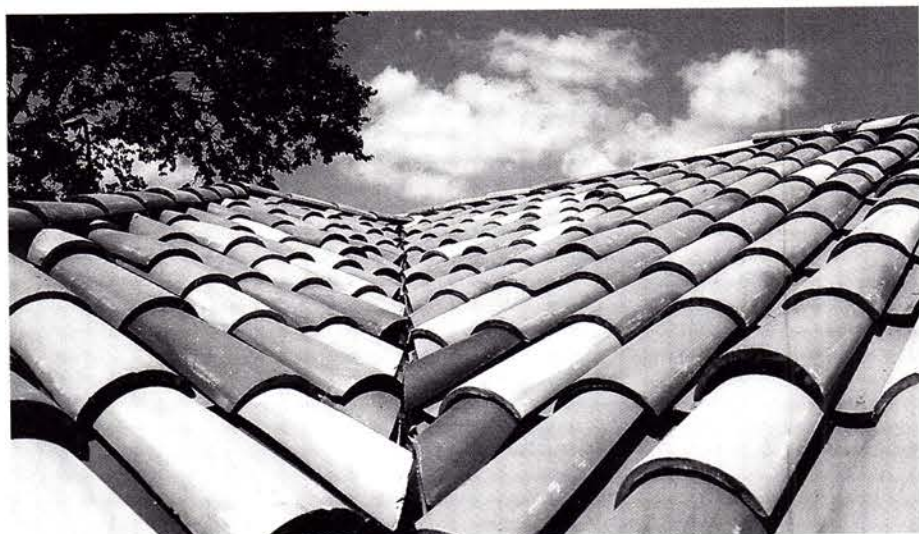
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THE TILE MAN can match existing vintage terra-cotta roofing tiles for repairs and additions. *Write in No. 4420*



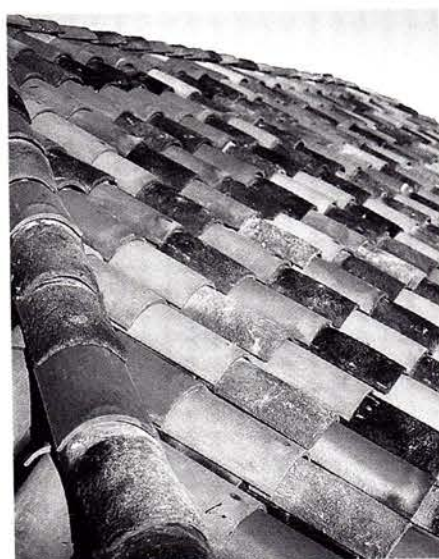
This roof was created with LUDOWICI ROOF TILE's custom manufactured low-moisture absorption clay roof tiles. *Write in No. 2760*



THE ROOF TILE & SLATE CO. supplies glazed roof tiles for restoration and new construction. *Write in No. 9560*



BARTILE ROOFS used interlocking slate-style concrete roof tile and interlocking, tapered, and arced-turret tile to complete this roof. *Write in No. 1725*



TILE ROOFS supplied these salvaged clay mission tiles for a new building on Chicago's North side. *Write in No. 4570*

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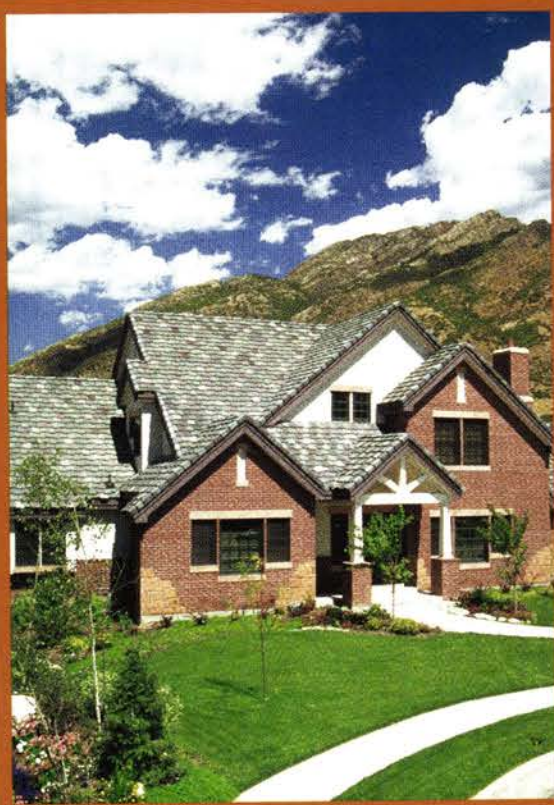
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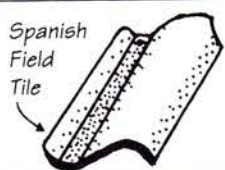
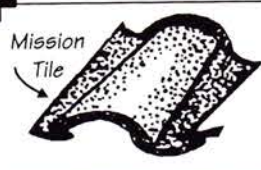
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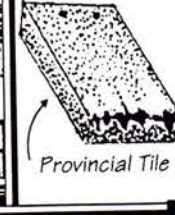
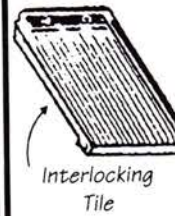
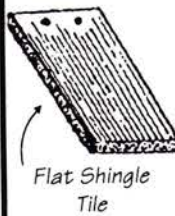
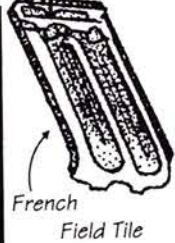
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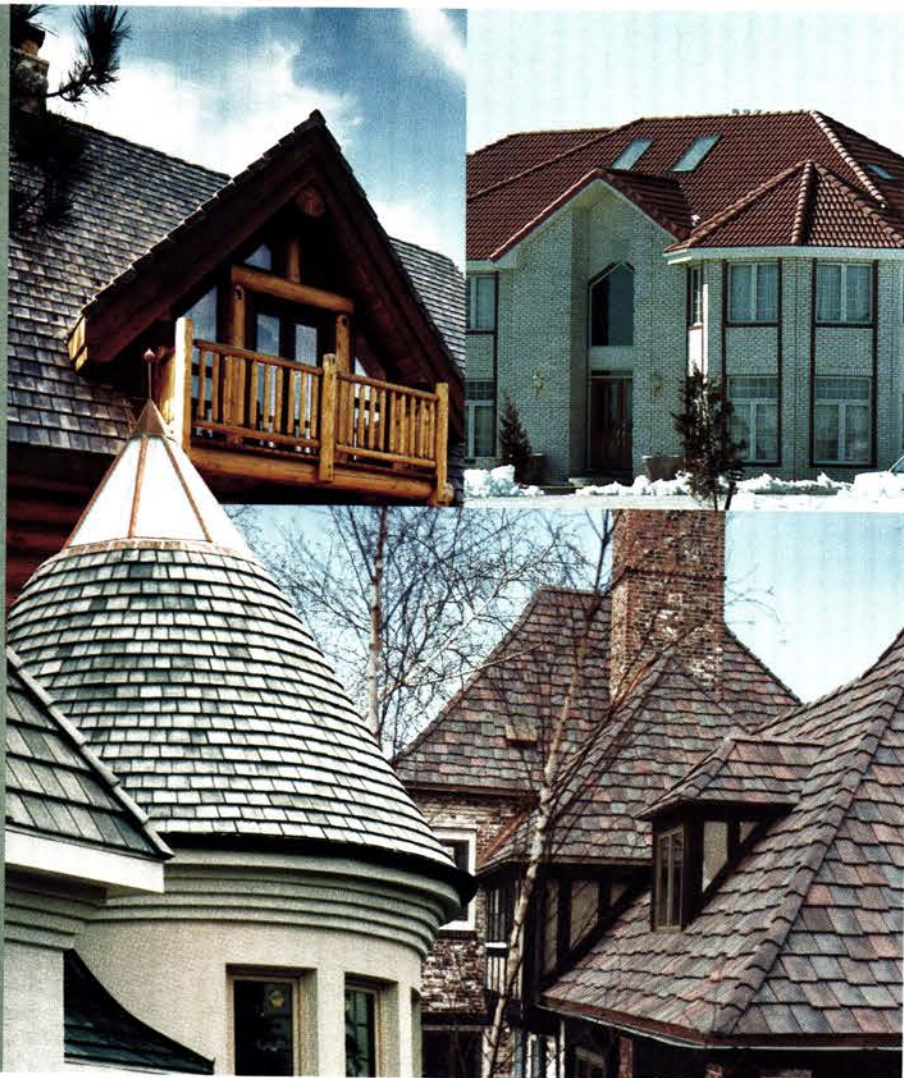
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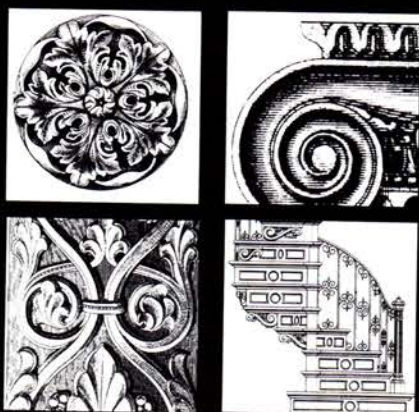
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SLATE ROOFING SourceList

COMPILED BY HADIYA STRASBERG

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About the SourceList and Portfolio

To create this *SourceList* and the Portfolio that accompanies it, the Editors contacted suppliers of Slate Roofing from our database of companies that provide historical products and services to our audience of design and building professionals. From the companies' responses, the Editors selected the suppliers you'll find below because they provide a good up-to-date cross-section of the market, both geographically and in the variety of their offerings. The Portfolio of products and services available from the companies listed here begins on page 132.

COMPANY	SPECIALTY	Literature	New	Salvaged	Regions	Slate Replica Materials						Installation	Repair/Restoration	Slate Color-Matching Services
						Ceramic	Concrete	Fiber-Cement	Metal	Mineral-Polymer	Other			
American Slate Company 800-553-5611; Fax: 510-307-8760 www.americanslate.com Walnut Creek, CA 94596	Supplier of natural roofing slate: large range of colors; quarry direct; tested & warranted.	Free Write in No. 2723	✓		NY, VT & Other Countries Worldwide									
Camara Slate, Inc. 802-265-3200; Fax: 802-265-2211 Rte. 22A, P.O. Box 8 Fair Haven, VT 05743	Supplier of new & used natural Vermont roof slate, flooring slate & flagstones.	Free Write in No. 1405	✓	✓	VT									
Durable Slate Co., The 800-666-7445; Fax: 614-299-7100 www.durableslate.com Columbus, OH 43201	Distributor of roofing: clay, concrete, slate & rigid mineral fiber; reclaimed, new & custom manufactured; steeples, weathervanes & finials.	Free Write in No. 3720	✓	✓	VT/NY, PA & VA							✓	✓	✓
Echeguren Slate, Inc. 800-992-0701; Fax: 415-206-9353 www.echeguren.com San Francisco, CA 94107	Importer & distributor of flooring & roofing: slate from USA, Spain, China, Brazil, India & Africa.	Free Write in No. 7220	✓		USA, Spain, China, Brazil, India & Africa									
Evergreen Slate Co. 518-642-2530; Fax: 518-642-9313 www.evergreenslate.com Granville, NY 12832	Manufacturer of natural Vermont roofing slate: many sizes, colors & thicknesses; experts in replacement slate; matches any roof slate already applied; blends or creates contrasts for new installations.	Free Write in No. 605	✓		VT									✓
GAF Materials Corp. 973-628-3000; Fax: 973-628-3865 www.gaf.com Wayne, NJ 07470	Manufacturer of Timberline fiberglass asphalt shingle with wood look: Slateline imitation-slate shingles; Country Estates shingles with natural-stone or slate look.	Free Write in No. 2222						✓			Fiberglass Asphalt			
Greenstone Slate 802-287-4333; Fax: 802-287-5720 www.greenstoneslate.com Poultney, VT 05764	Quarrier of Vermont roofing slate & slate tools: wide range of sizes, colors & weights; matches slates for roof restoration, additions & new construction; graduated roofs, blending, contrasting & all effects.	Free Write in No. 3770	✓		VT									✓
Klimer Mfg., Inc. 905-876-4063; Fax: 905-876-3791 7449 Trafalgar Rd. Hornby, ON, Canada L0P 1E0	Manufacturer of powered scaffolding systems: mast-climbing work platforms; interior & exterior building repairs; roofing restoration.	Free									Work Platforms		✓	
Renaissance Roofing, Inc. 800-699-5695; Fax: 815-547-1425 www.claytileroof.com Rockford, IL 61125	Restorer of historic tile & slate roof systems: slate roofing materials; new & salvaged tiles; church work.	Free Write in No. 3710	✓	✓	VT									
Rising & Nelson Slate Co., LLC 518-642-3333; Fax: 518-642-1819 P.O. Box 336, County Rt. 23 Middle Granville, NY 12849	Distributor of Vermont roofing slate: all sizes & colors; can identify old slate samples & provide information & matches for repairs or additions.	Free	✓		VT/NY, PA, VA, Wales & China									
Roof Tile & Slate Co. 800-446-0220; Fax: 972-242-1923 www.vermontslate.com Carrollton, TX 75006	Supplier of clay tile & slate flooring & roofing: pavers & trim; custom blending; historic projects; new & salvage tile; field tiles & trim are palletized & ready to ship.	Free Write in No. 9560	✓	✓										
Sheldon Slate Products Co., Inc. 207-997-3615; Fax: 207-997-2966 www.sheldonslate.com Monson, ME 04464	Manufacturer of slate products for roofing, floor tile, flagging, structural applications, monuments & kitchen counters & sinks; custom cutting.	Free Write in No. 1046	✓		VT									
Slate International, Inc. 301-952-0120; Fax: 301-952-0295 www.slateinternational.com Wilmington, DE 19808	Supplier of roofing slate & slate-covered ridge vent: domestic & imported; all colors; Yale University, the US Naval Academy & The Audubon Society are clients.	Free Write in No. 9340	✓		VT/NY, Wales & Several Other Countries									✓
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Taran Bros. Slate Co. 802-287-9308; Fax: 800-265-3220 2522 Vt. Rt. 30 N. Poultney, VT 05764	Vermont & NY quarrier & manufacturer: slate roofing, flagstone, floor tiles & structural applications; owner-operator.	Free Write in No. 1413	✓	✓							Landscape Stone, All Natural			✓
The Tile Man 919-853-6923; Fax: 919-853-6634 www.thetileman.com Louisburg, NC 27549	Supplier of Vintage Tile (including trim) to match any existing clay-tile rooftop: clay roofing tile, concrete roofing tile & slate; consultation, installation advice & identification are free services.	Free Write in No. 4420		✓								✓		✓
Tile Roofs, Inc. 888-708-8453; Fax: 708-479-7865 www.tileroots.com Frankfort, IL 60423	Supplier of salvaged clay roof tiles & slate roofing: exact matches of tiles for repair & restoration; large quantities for new roofing.	Free Write in No. 4570		✓									✓	✓
Vande Hey-Raleigh Mfg. 800-236-8453; Fax: 920-766-0776 www.vhr-roof-tile.com Little Chute, WI 54140	Manufacturer of recycled clay, concrete & natural slate roofing: new tile, 9 styles, 20 standard colors & surfaces; for restoration & new construction.	Free Write in No. 2840		✓				✓					✓	



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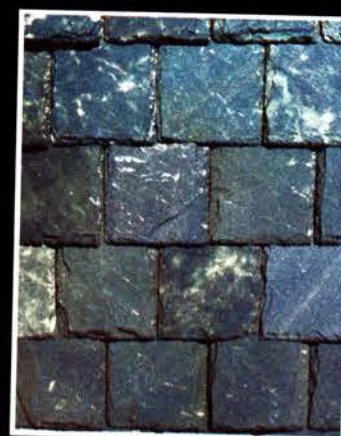
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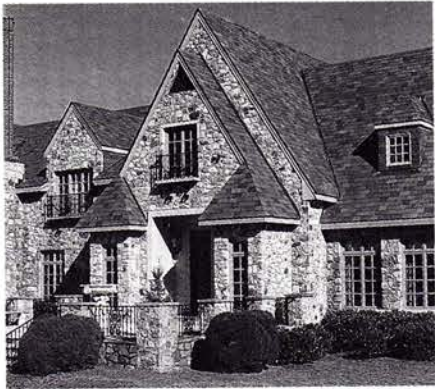
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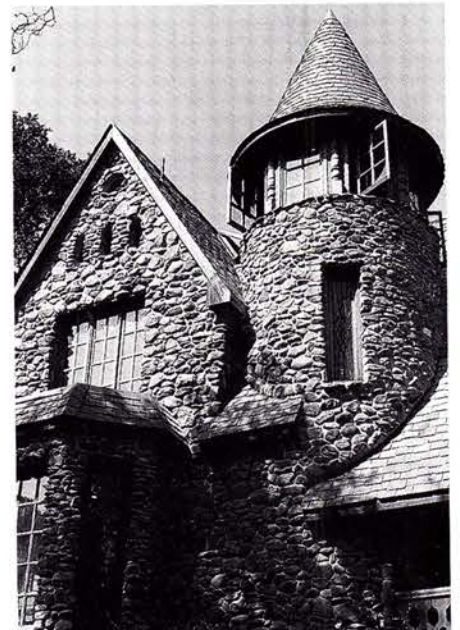
For full contact information on these companies, consult the SourceList on p. 150.



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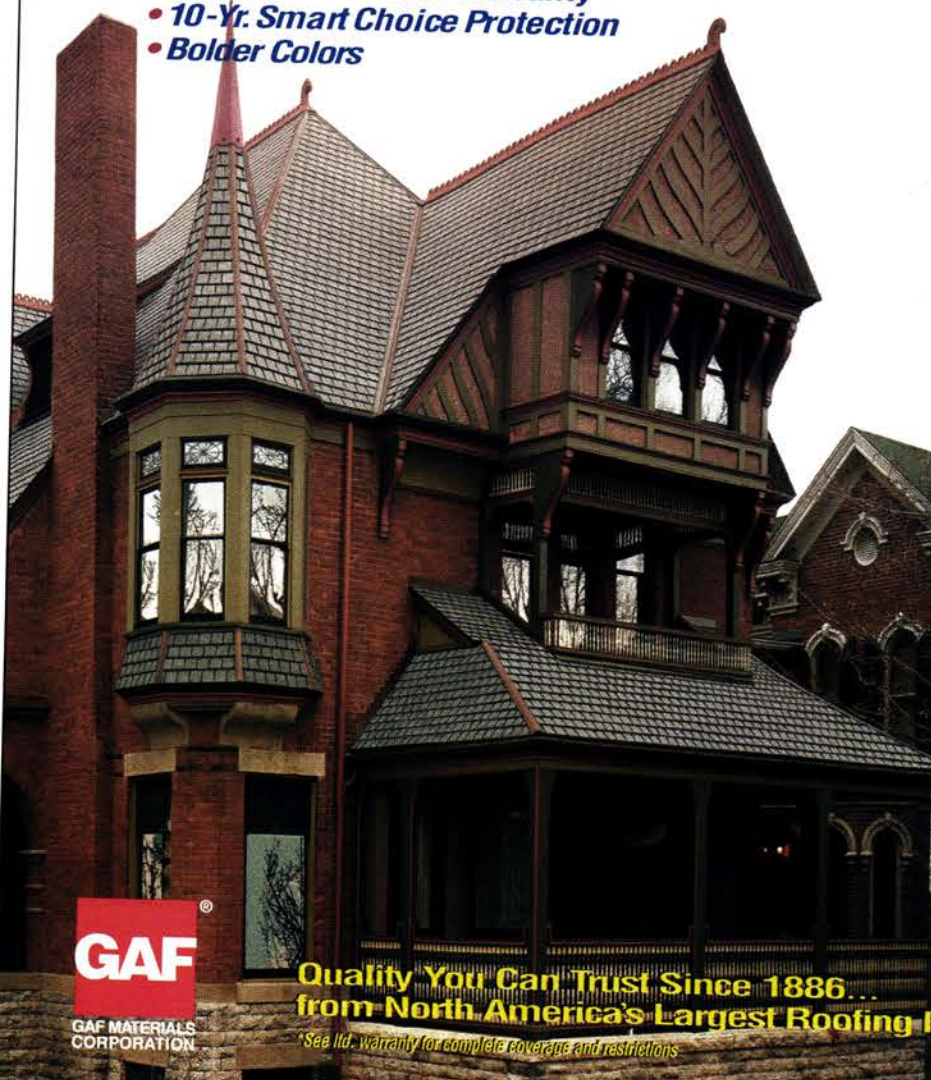
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HURRICANES AND HISTORICAL AESTHETICS

Regional building codes can have quite an impact on window design, particularly in historical retrofits and restoration projects, raising the question: Do historical accuracy and traditional aesthetics have to be compromised in the name of safety?

by Marieke Cassia Gartner

After Hurricane Andrew hit South Florida in 1994, killing 48 people and leaving more than \$26.5 billion in damages in its wake, inspection by officials revealed that many of the buildings were not up to the building codes in place at the time. Since then, the Florida Building Code has been rewritten to establish strict requirements for fenestration. The Code now calls for window testing standards that include water resistance, air leakage, mandatory load deflection, and structural tests, as well as a number of other requirements.

The new building code was put into effect on March 1, 2002. Based in part on the South Florida Building Code, which has been in effect for eight years in Broward, Palm, and Miami-Dade counties, the new code replaces more than 400 local codes and is designed to make the local building process more efficient, increase accountability, bring new and safer products to the market, increase consumer confidence, and better protect residents. The Code requires that all window systems used in new construction or remodeling meet criteria of impact resistance to protect against property loss and potential injury during hurricanes and these systems must be tested by an approved independent testing laboratory and labeled as such.

Regional Requirements

In most of the country, energy efficiency is the chief concern. "We don't do anything special to bring our restoration work on windows up to code. We don't need a permit, the codes don't affect us," says Gail Wallace, President of Restoration Works, Inc., in Illinois. "The important thing is energy efficiency and aesthetics."

The focus is similar in California. "The most important issues in California are water and air infiltration, as well as energy efficiency," according to Jack Topalian, President of Brothers' Custom Windows & Doors. While there are window codes that have to be met in California, he adds, they aren't as stringent as Florida, since hurricanes aren't an issue. His products do not have to go through any testing or approval process.

In Florida, however, thermal performance and aesthetics take a back seat to impact resistance. The testing process involves submitting three samples with an engineered shop drawing and technical data to an approved independent testing lab. Tests conducted on the samples involve procedures such as shooting either a 4-1/2-lb. 2x4 or a 9-lb. 2x4, depending on where you are, out of an air cannon into the window. In Dade County the window is struck multiple times. "From an engineering standpoint," says Anthony Head, Regulatory Product Planner at Marvin Windows, "that relates to three times the trauma. This is very difficult from a window-making standpoint." The test result — pass or fail — includes a video and is passed on to Miami-Dade County for approval.

The Dade County code includes many ASTM codes; for windows, two specific ones are used: 1886 and 1996. ASTM code 1886 addresses the physical portion of setting up a window (how you set up the air cannon in the test so it's pushing the 2x4 at a certain speed, etc.), while 1996 addresses simulating hurricane force winds and missile requirements. This last is called the cyclic wind load test. Lasting four to five hours, it replicates the pushing and pulling forces of wind found in hurricanes.

In wind-borne debris regions, partially enclosed structures must be built to handle the increased internal pressures that could occur when a window blows out. In wind-speed zones of 120 miles per hour or more, the Florida Building Code also indicates that structures can either be designed to withstand internal pressures or windows can be protected by installing products such as plywood, impact-resistant glass, or storm shutters. Windows to be installed without benefit of an approved shutter system are required to pass the Large Missile Impact Test and receive certification for installation.

Another way to provide impact resistance is to incorporate laminated glass in the glazing system. "Multiple laminates of glass, polycarbonates, different types of plastic or vinyl inner layers are all acceptable types of glazing. You need five layers — the two on the inner and outer sides are glass, but the inner levels can be any of those materials," says Head.

Codes and Companies

Companies have differing opinions on whether getting a window up to code is easy. "It's very difficult," says Head. "It took us several years to make product lines that were up to code available. Not only do you need to have the type and amount of glass to take the trauma, but you also have to address the sash as well, because the sash can blow out completely. Along the same lines, you have to pay attention to the frame and the installation."

Marvin Windows no longer uses a sealant, for example, but a structural adhesive made for skyscrapers, which are constantly exposed to high winds. In addition, modifications need to be made to the window sash and frame. "We had to come up with a brand new sash to deal with wind pressures, with more fastenings holding the wood to the aluminum, and the adhesive," Head explains. "We had to strengthen our locking system as well, because the one we had wouldn't hold up under the pressure."

Code approval depends on the type of window. "Most outswing windows pass. Inswing systems are harder to pass, because the glass is outside. A multipoint window will pass, because there are so many lockpoints," Michael Zajac-Batell, president of Architectural Windows & Entries in Florida, maintains.

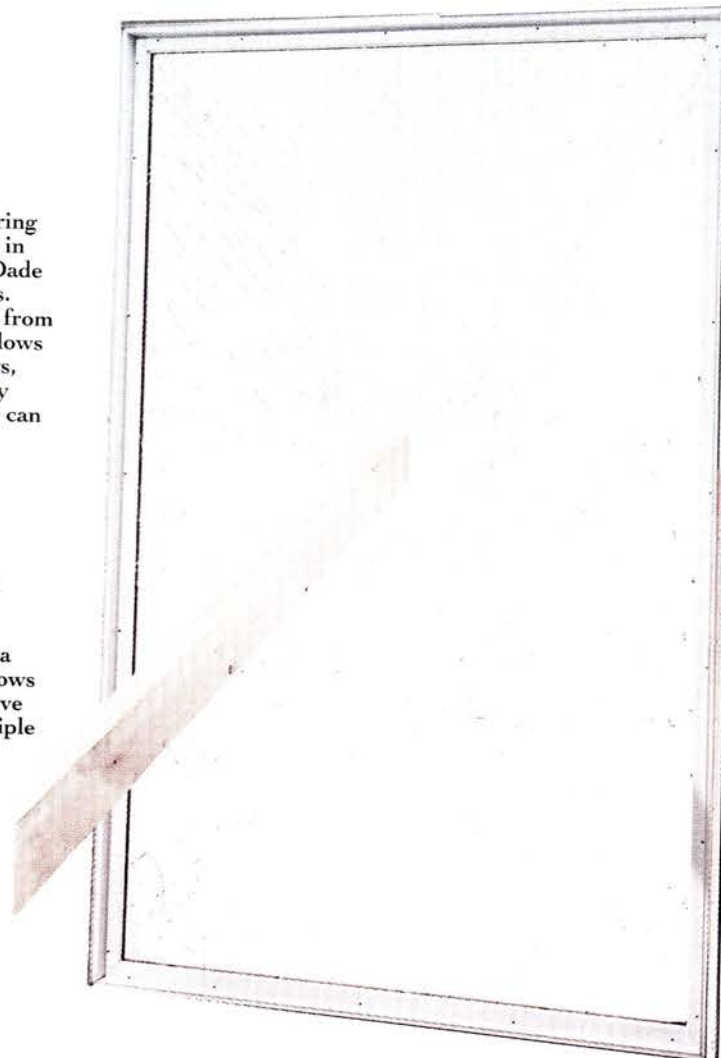
"It's a real scam," says Zajac-Batell. "Once the test is done, they charge a lot of money and take two months to approve it, although they have to approve it if it passed the test." In addition to the increased price of fabrication due to the thicker material used for the sash and the laminated glass, he objects to the price of the testing, which is prohibitive for a small company like his. If such a company gets a project upwards of a quarter million dollars, they can afford the testing and then can take on other projects that require certification. Head specifies that a "Dade County window is

continued on page 140



Above: Layering is important in passing the Dade County codes. This window from Marvin Windows has five layers, of which only the outer two can be glass.

Right: In Florida, impact resistance tests, like the one shown here being conducted on a Marvin Windows product, involve shooting multiple 2x4s out of an air cannon into a window.



close to double the price of a window of comparable quality. The most expensive thing is the glass because it has to be custom built. It's very labor intensive, because there can be no air bubbles or dust or hairs."

Another problem is the installation of the impact-resistant windows. "Your installation method has to have a valid label," Zajac-Batell explains. "It has to be installed the way the manufacturer says since that's been approved." While a contractor doesn't need extra official training or skills, "You still have to beef up your installation," Head agrees. "When you submit a window for certification you have to have specific guidelines — how big the screws are, how much space is between each screw, for instance. Liliana Boswick, Architect Project Manager for Seaquay Architectural Millwork Corporation, points out, "You have to be especially concerned with caulking the window correctly, but it doesn't take special training."

Tradition, Safety, and Codes

The good news is that these windows can meet high performance standards and still look traditional for the most part. "If you want divided light you have to do a simulation, which is extremely convincing in terms of woodwork, but there isn't a different reflection in each pane of glass like an original would have," says Zajac-Batell. Boswick agrees. "Mostly these windows can still look 'traditional,'" she says, "but sometimes you have to increase the mounting size in order to accept the wind load, which slightly modifies the historical look."

As for the number of window manufacturers who have a product that passes the Dade County Code standards, there are "quite a few, but not many for traditional wood products," says Zajac-Batell. "Of all the major manufacturers, maybe around 10," agrees Head.

In 2002, the hurricane season lasted six months, beginning on June 1st and ending on November 30th. According to the National Oceanic and Atmospheric Administration's (NOAA) National Weather Service, 17 people were killed in the United States, and damage was estimated at \$1 billion. This seemingly low number (as compared to 1995) may be due to this year's El Niño, which caused only four hurricanes in the Atlantic basin and weakened other storms, according to a press release quoting Air Force Brig. Gen. Jack Kelly, Director of the NOAA National Weather Service.

In the same release, Max Mayfield, Director of the National Hurricane Center (NHC), said that the public used the Internet for access to information about the storms this season. "The explosive use of the Internet to convey vital information to the public in near real time has been astonishing," he said. "Between August and September, the NHC web site recorded almost 500-million hits. The peak day for the season was October 3 (Hurricane Lili) when the site recorded 35.9 million hits — doubling the previous record set in 1999 during Hurricane Floyd. We are saving lives thanks to the Internet."

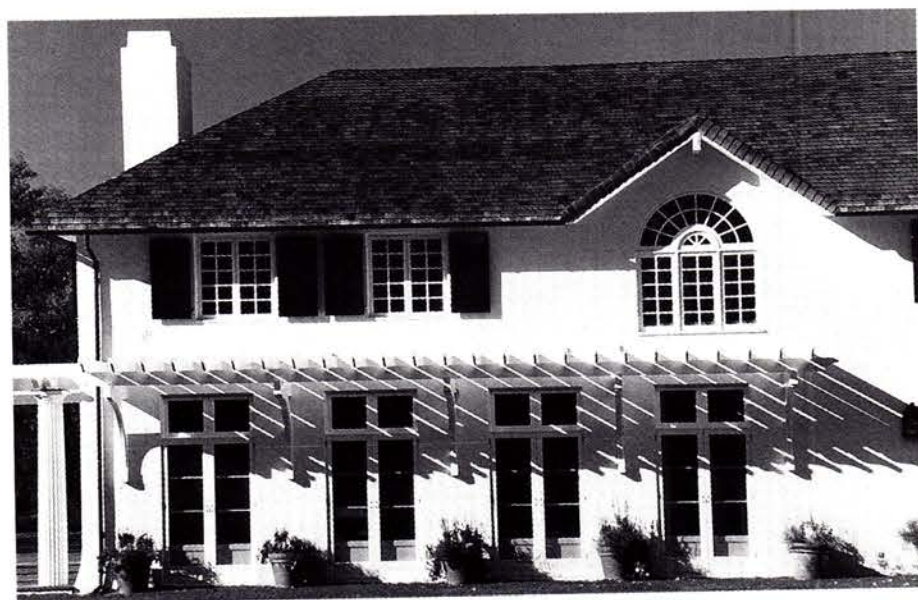
Whether the reduced number of deaths and costs is due to the more stringent codes, Internet use, El Niño, or a combination of the three, the stricter codes are a new reality that must be followed if a window manufacturer wants a government-certified window in regions hit by hurricanes or tropical storms. ■

WOOD WINDOWS PORTFOLIO

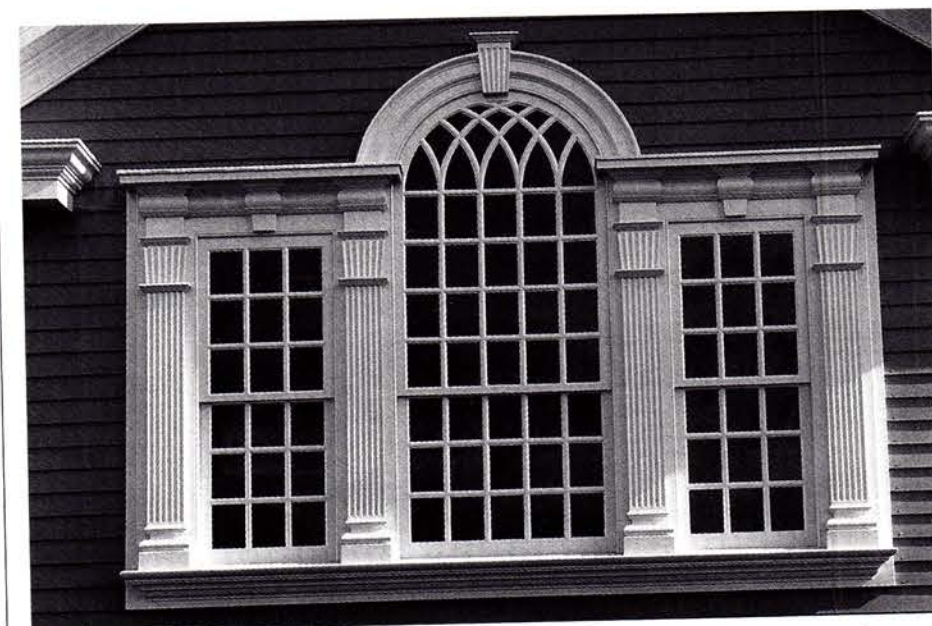
For full contact information on these companies, consult the SourceList on pp. 146-150.



Hardwoods and select softwoods are used by ENJO ARCHITECTURAL MILLWORK to custom fabricate the wood window of your choice. Write in No. 8022



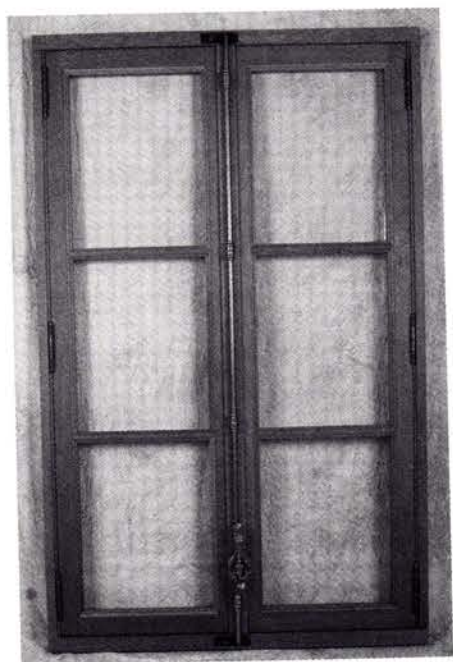
REILLY WOODWORKS custom manufactured these wood windows. Write in No. 9210



MAURER & SHEPHERD, JOYNERS hand crafts custom wood windows in pine and mahogany. Call 860-665-2583 for more information.



These 6x13-ft. Gothic round-top wood windows were custom fabricated by ADAMS ARCHITECTURAL WOOD PRODUCTS for the Waltham Public Library in Waltham, Mass. Write in No. 1265



This authentic French window from ASSELIN SA was made of solid Moabi with true divided lites and traditional espagnolette hardware. Write in No. 8051



SMITH RESTORATION SASH fabricated these two custom windows for the restoration of a late 19th-century home: at left is a single-hung 6/6 plain-rail unit with spring bolts, and at right is a weight-and-pulley model featuring double-hung 2/1 check-rail sash glazed with restoration glass. Write in No. 1412



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WRITE IN NO. 6920

WOOD WINDOWS PORTFOLIO

For full contact information on these companies, consult the SourceList on pp. 146-150.



Mahogany replica windows manufactured by DAHLGRENS were installed at The Belnord Apartments in New York City. *Write in No. 669*



A custom millwork shop specializing in the manufacture of landmark windows, MILLWORK SPECIALTIES fabricates windows in all wood species with bent, round, or arched tops. *Write in No. 5050*



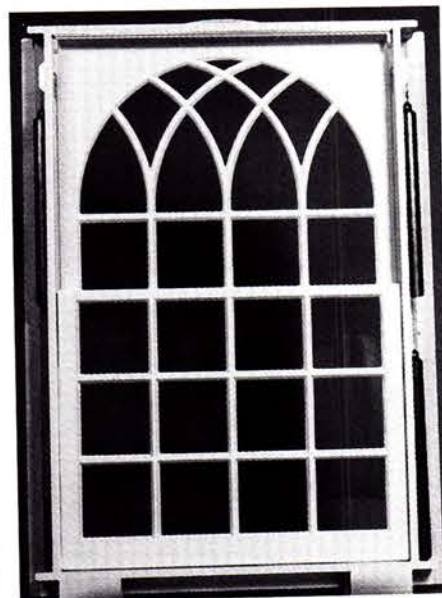
Doors in panel and glass combinations from WOODSTONE can be surrounded with a custom-designed architectural trim package. *Write in No. 8450*



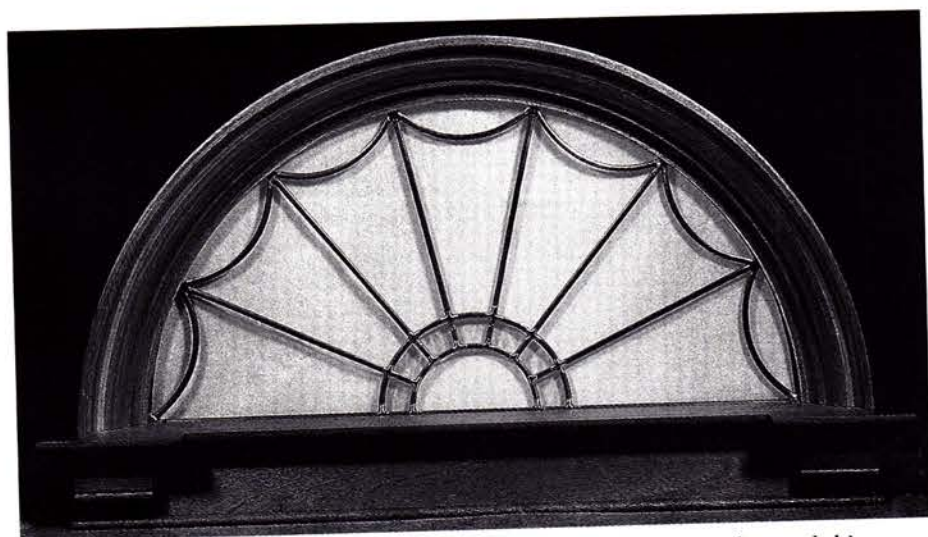
GRABILL WINDOWS & DOORS provides casement, awning, and traditional double-hung all-wood window units. *Write in No. 1910*



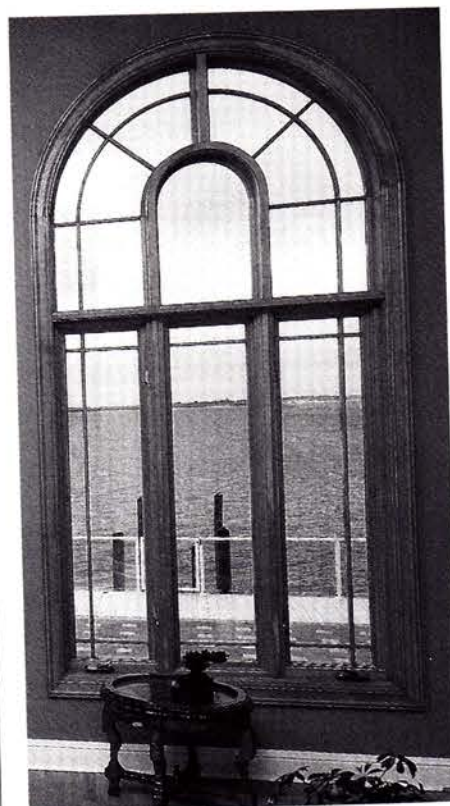
DRUMS SASH & DOOR offers all-wood windows in a number of shapes and styles, including round top, arch top, oval, round, casement, and double-hung. Call 570-788-1145 for more information.



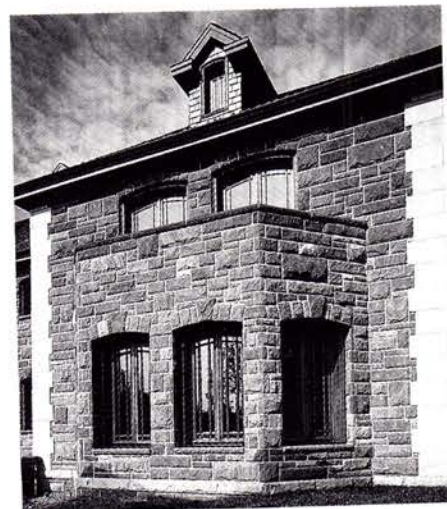
To replicate the original windows in a Tudor-style home in NYC, WOOD WINDOW WORKSHOP designed a number of arched double-hung Honduras mahogany windows. *Write in No. 9640*



HISTORIC DOORS BY HENDRICKS WOODWORKING manufactured this entrance fanlight. *Write in No. 557*



The Decorative Window line from POL-LARD WINDOWS offers pine, oak, and maple windows in custom shapes. *Write in No. 5055*



ZELUCK DOORS & WINDOWS designed the series 4300 European open-in casement windows, which feature 3-point locking to provide maximum security and ensure zero air and water infiltration. *Write in No. 6920*



The Weight and Pulley Double Hung Window from KOLBE & KOLBE has a brass pulley system that includes brass chains and alloyed weights for easy-to-operate units.




BELISLE ANCESTRAL WINDOWS & DOORS offers these double-sash French windows with a cast-iron case-latch in pine, Western red cedar, and mahogany. *Write in No. 1404*



The replacement windows for The Pattington, an apartment building in Chicago, were custom created by RESTORATION WORKS. *Write in No. 8910*

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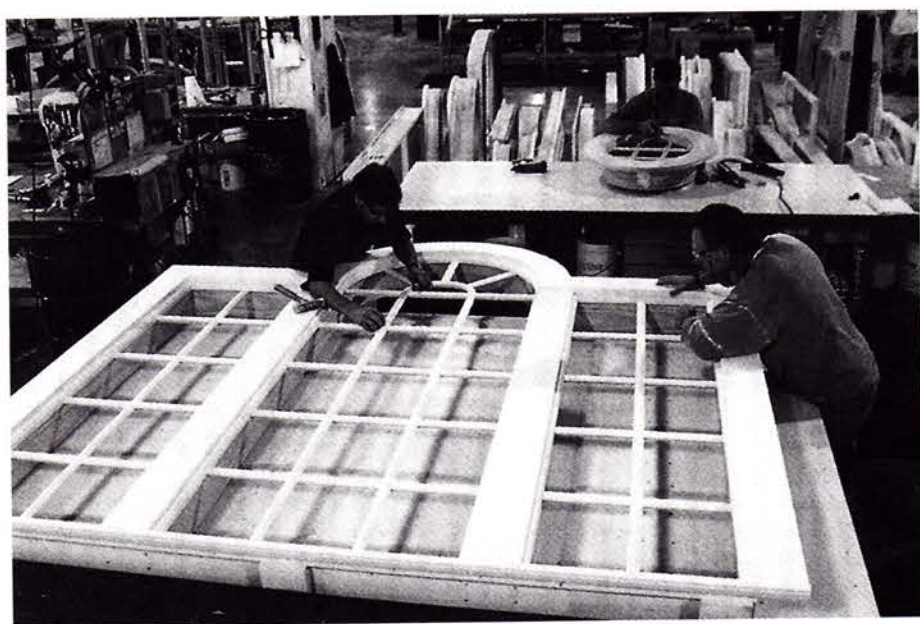
Loewen

WOOD WINDOWS PORTFOLIO

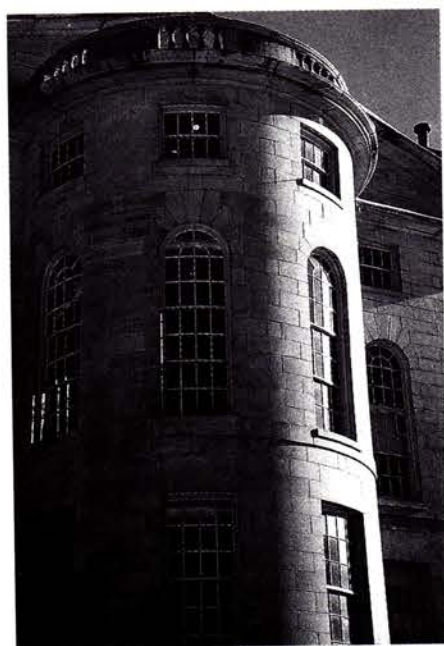
For full contact information on these companies, consult the SourceList on pp. 146-150.



RE-VIEW restored the windows for the Sioux City Public Museum (formerly the John Pierce Mansion) in Sioux City, Iowa; the project included restoring sash, frames, trim, glazing, hardware, and weather stripping. *Write in No. 744*



Custom wood windows from PARRETT MFG. offer features such as true divided lites. *Write in No. 5005*



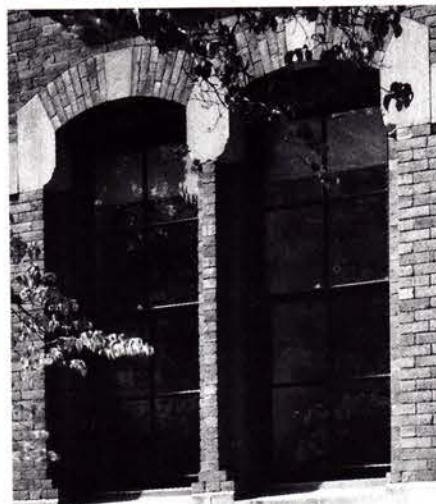
WOODWARD THOMSEN made and installed wood sash for the Maine State House. *Write in No. 8011*



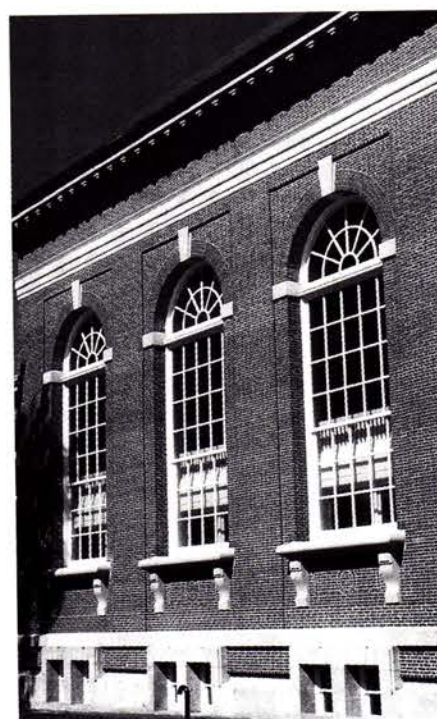
The historically accurate windows for this Courthouse were fabricated by HULL HISTORIC MILLWORK using traditional joinery techniques. *Write in No. 5016*



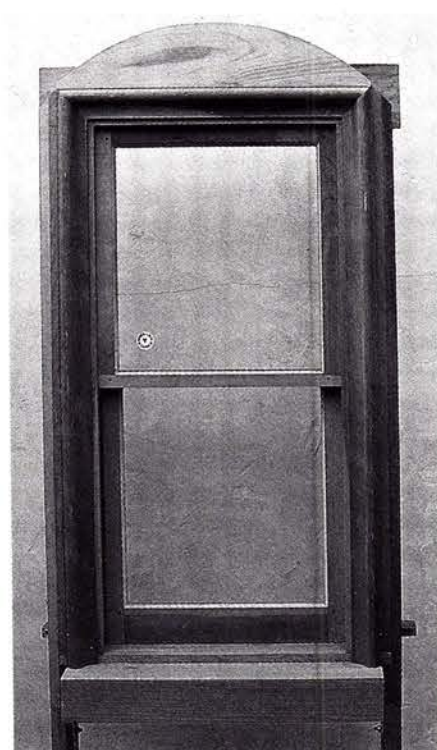
Entryways from KINGSLAND are manufactured in Honduras mahogany. *Write in No. 4575*



ARCHITECTURAL COMPONENTS manufactured these true divided-lite windows with insulated glass. Call 415-567-9441 for more information.



The windows of the Webster Memorial Library at Dartmouth University were designed and fabricated by J.S. BENSON WOODWORKING & DESIGN with faux-putty muntins to give them the historic look of the originals.



This custom-fabricated double-hung window from WESTON MILLWORK is typical of the company's exact reproductions of historic windows. *Write in No. 1516*

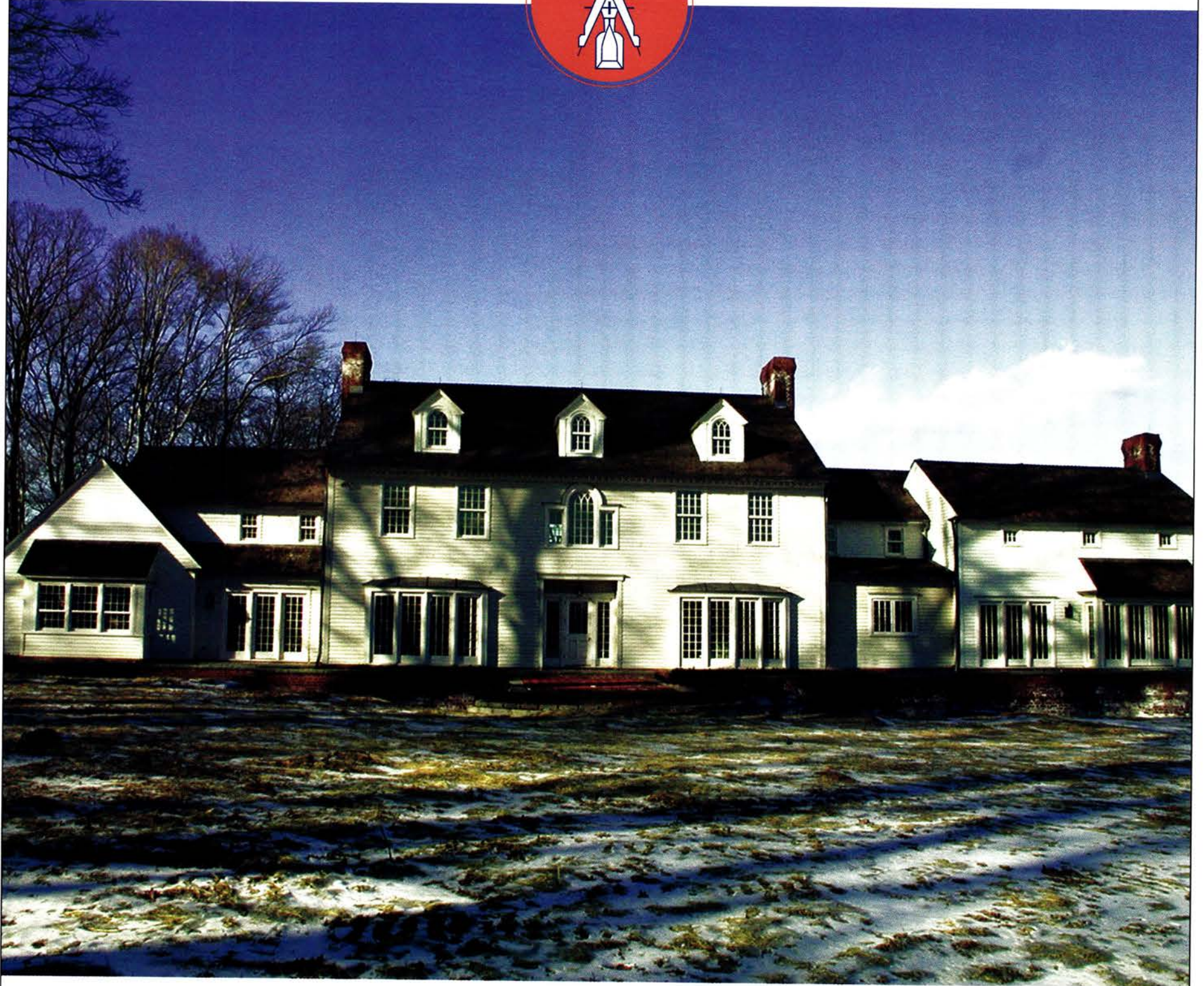
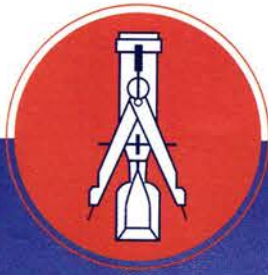


MARVIN WINDOWS & DOORS custom made the windows for this building at Steinheim Alfred University in St. Paul, Minn. *Write in No. 1265*



Curved wood moldings in traditional and specialty shapes are fabricated by ARCHED CASINGS for use throughout a building, including windows. *Write in No. 1091*

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WRITE IN NO. 9210

WOOD WINDOWS PORTFOLIO

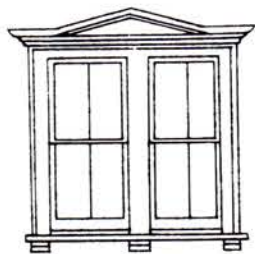
For full contact information on these companies, consult the SourceList below and on pp. 148-150.



The Legacy double-hung wood window from WEATHER SHIELD WINDOWS & DOORS tilt in for easy cleaning and are designed to withstand all types of weather.



This before and after (right) photo shows how wood windows can be brought back to life by using KSD CUSTOM WOOD PRODUCTS. Write in No. 1409



TRADITIONAL BUILDING SourceList WOOD WINDOWS

COMPILED BY MARTHA MCDONALD

CSI#08550

COMPANY	SPECIALTY	Literature	Types										Species	Weather-stripping options	% Custom
			All Wood	Clad Windows	Round Top	Arch Top	Oval	Round	Casement	Double Hung	Special Shapes	Other			
Adams Architectural Wood Products 888-285-8120; Fax: 563-285-8003 www.adamsarch.com Eldridge, IA 52748	Custom fabricator of wood windows & doors: screen & storm doors, sashes & transoms; historical reproductions & restoration work; custom built; storefronts, ecclesiastical & other settings.	Free Write in No. 1265	✓		✓	✓	✓	✓	✓	✓	✓			Foam-Filled Bulb, Bronze & Zinc as specified	100%
Allegheny Restoration & Builders, Inc. 304-594-2570; Fax: 304-594-2810 www.AlleghenyRestoration.com Morgantown, WV 26507	Manufacturer of pine & mahogany doors & windows: window replication & hardware replacement; restoration & repair; storefronts & ecclesiastical projects.	Free Write in No. 1004			✓	✓	✓	✓		✓	✓		Pine & Mahogany	Bronze	100%
Arched Casings 888-273-2567; Fax: 614-873-9963 8490 Carter's Mill Rd. Plain City, OH 43064	Manufacturer of curved-wood products without finger joints: half rounds, seg circles, ovals, ellipticals, crown & baste moldings & landing treads; poplar, red oak, white oak, birch, hard maple, cherry, clear pine & mahogany.	Free Write in No. 1091						✓			✓	Half-Rounds, Seg Circles	Poplar, Red & White Oak, Birch, Hard Maple, Cherry & more		60%
Architectural Components, Inc. 413-367-9441; Fax: 413-367-9461 www.architecturalcomponentsinc.com Montague, MA 01351	Manufacturer of reproduction & custom wood windows & doors: true divided lites with insulated glass; renovation & restoration projects & new construction; paneled walls & mantels.	Free Call for more information.	✓		✓	✓	✓	✓	✓	✓			Mahogany, Cherry, Eastern White Pine & more	Interlocking Bronze & Compression	100%
Asselin SA 207-541-3626; Fax: 207-253-5359 www.asselin.fr 79102 Thouars, France	Supplier of French windows & doors: custom units in solid French oak with classic cremone & espagnolette hardware; French firm.	Free Write in No. 8031	✓		✓	✓	✓	✓	✓		✓	Authentic French Casement	French Oak		100%
Belisle Ancestral Doors & Windows 866-851-5113; Fax: 418-963-2200 www.belislewindows.com Quebec, Canada G0L3M0	Manufacturer of energy-efficient historical wood windows & doors: pine, red Western cedar & mahogany; all custom built.	Free Write in No. 1404	✓		✓	✓	✓	✓	✓		✓	French Casement	Pine & Red Western Cedar & Mahogany	Aluminum or Bronze Interlocking, Q-Lon & Polyflex Schlegel	100%
Bergerson Cedar Windows, Inc. 800-240-4365; Fax: 503-861-0316 www.bergersonwindow.com Hammond, OR 97121	Manufacturer of custom & historical wood windows & doors: complete custom units or sash only; crisp milling detail, shop drawings included; Western red cedar; since 1977.	Free Write in No. 83	✓		✓	✓	✓	✓	✓	✓	✓		Cedar	Q-Lon by Schlegel, Bronze	100%
Dahlgrens, Inc. 800-424-3135; Fax: 815-883-9639 www.replicawindows.com Oglesby, IL 61348	Manufacturer of Replica historical wood windows for landmark buildings: commercial, governmental, institutional & apartment projects; projects include the US Treasury, Union Station in Kansas City & Cooper Union in New York City.	Free Write in No. 699	✓		✓	✓	✓	✓	✓	✓	✓	Williams Double-Hung Pivot, Blast-Resistant Window	Mahogany & Pine	Metal, Brush & Nylon	100%
Drums Sash & Door Co., Inc. 570-788-1145; Fax: 570-788-3007 www.drumsashanddoor.com Drums, PA 18222	Custom fabricator of all types of wood windows & other wood products: Gothic & Cottage styles; casework, casing/moldings, paneled doors & complete entryways; pine, oak, mahogany, poplar, birch & Spanish cedar.	Free Call for more information.	✓		✓	✓	✓	✓	✓	✓	✓	Gothic & Cottage	Clear Pine, Spanish Cedar & Mahogany		100%
Englander Millwork Corp. 718-364-4240; Fax: 718-364-4780 www.engmill.com Bronx, NY 10458	Manufacturer of custom wood doors & windows: door units, shutters & mantels; any species of wood; any design & shape; able to accommodate glass preferences & weatherstripping; windows & glass sidelites.	Free Write in No. 3029	✓		✓	✓	✓	✓	✓	✓	✓		All Species	Interlock, Compression & Bulb & Flange	90%
Enjo Architectural Millwork 800-437-3656; Fax: 718-442-7041 www.enjo.com Staten Island, NY 10302	Manufacturer of doors & windows: casing/moldings, paneling, complete woodwork packages, paneled & carved doors & complete entryways; all hardwoods & select softwoods.	Free Write in No. 8022	✓		✓	✓	✓	✓	✓	✓	✓		All Hardwoods & Select Softwoods	As Specified	100%
Grabill Windows & Doors 810-798-2817; Fax: 810-798-2809 www.grabillwindow.com Almont, MI 48003	Manufacturer of doors & windows: lift & sliding doors, tilt-turn windows, moldings & trim; wood/bronze cladding; historical reproductions & custom work.	Free Write in No. 1910	✓	✓	✓	✓	✓	✓	✓	✓	✓	Bronze & Metal-Clad	Mahogany, Pine, Cypress, Teak, Alder & more	Neoprene, Silicone, Bronze Metal & Wood Pile	90%

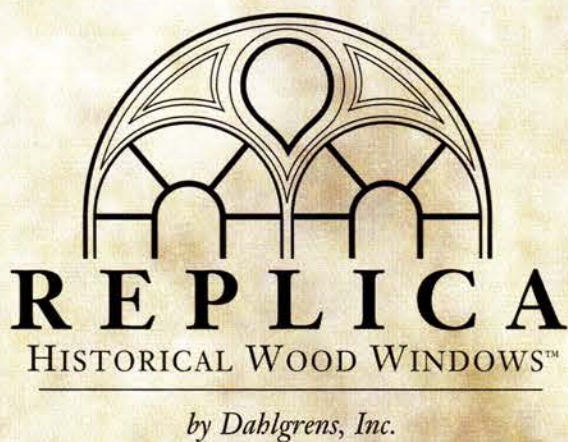


Cooper Union - New York, NY
 Architect - Platt Byard Dovell, New York, NY
 Rep. - Historic Window Resources, New York, NY
 G.C. - Nicholson & Galloway, Glen Head, NY

The Cooper Union building in New York, was completed by Dahlgrens in 2000.



Lake Forest High School - Lake Forest, IL
 Architect - AeCom, Chicago, IL
 Rep. - Advanced Building Products, Chicago, IL



Center General Complex - Cranston, RI
 Architect - Saccoccio & Assoc./Goody Clancy & Assoc.
 Rep. - North Atlantic Corp., Somerset, MA



Jewell Hall - William Jewell College - Liberty, MO
 Architect - The Hollis & Miller Group, Inc.
 Rep. - Architectural Specialties, Inc., Riverside, MO



Science City at Union Station - Kansas City, MO
 Architect - Smith Group/EEK Designers, USA Architects
 Rep. - Architectural Specialties, Inc., Riverside, MO



USDA Building - Washington, D.C.
 Architect - Einhorn Yaffee Prescott, Washington, D.C.



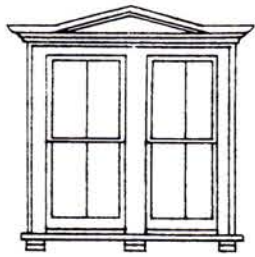
The Belnord - New York, NY
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W TRADITIONAL BUILDING SourceList OOD WINDOWS

COMPILED BY MARTHA MCDONALD

CSI#08550

COMPANY	SPECIALTY	Literature	Types										Species	Weather-stripping options	% Custom
			All Wood	Clad Windows	Round Top	Arch Top	Oval	Round	Casement	Double Hung	Special Shapes	Other			
Heights Woodworking 718-875-7497; Fax: 718-624-8890 411 Third Ave. Brooklyn, NY 11215	Custom fabricator of landmark-approved windows: all wood species & all types of glass (restoration, insulated, plate, stained & more).	Free Write in No. 1406	✓						✓	✓	✓		All Species		100%
Historic Doors By Hendricks Woodworking 610-756-6187; Fax: 610-756-6171 www.historicdoors.com Kempston, PA 19529	Custom fabricator of wood windows & doors: casing & circular & crown moldings; complete entryways; restoration & period-style construction.	Free Write in No. 3570	✓		✓	✓	✓	✓	✓	✓	✓		Mahogany & Spanish Cedar	As Specified	100%
Hull Historical Millwork 817-332-1495; Fax: 817-332-1496 www.hullhistorical.com Fort Worth, TX 76104	Custom fabricator & installer of full interior millwork packages: casing/moldings, built-in furniture, paneling, paneled & carved doors & complete entryways; all old-growth wood; historic millwork.	Free Write in No. 3016	✓		✓	✓	✓	✓	✓	✓	✓		Longleaf Yellow Pine & Old-Growth Tidewater Red Cypress		100%
J.S. Benson Woodworking & Design 800-339-3515; Fax: 802-254-4874 www.jsbensonwoodworking.com Brattleboro, VT 05301	Custom fabricator of historical windows & doors: European window & wall systems; 7/8-in. TDL warm-edge glazing; architectural bronze cladding; custom hardware; residential & institutional restorations & reproductions.	Free	✓	✓	✓	✓	✓	✓	✓	✓	✓	Tilt/Turn & Other European Fenestration	Mahogany & Other Hardwood	Bronze, Copper, Silicone Rubber & Others	100%
Kingsland Co. Wood Doors & Windows 860-542-6981; Fax: 860-542-1752 www.kingsland-shutters.com Norfolk, CT 06058	Supplier of doors & entryways: doors, jams & thresholds; Honduras mahogany; custom designed; screen doors, shutters & church windows.	Free Write in No. 4573 for Wood Doors; 4574 for Screen Doors	✓										Honduras Mahogany		100%
Kolbe & Kolbe Millwork Co. 800-477-8656; Fax: 715-845-8270 www.kolbe-kolbe.com Wausau, WI 54401	Manufacturer of historical wood windows: casing, trim & window styles using modern glazing options; residential, commercial, institutional applications; energy efficient; filters UV rays.	Free	✓	✓	✓	✓	✓	✓	✓	✓	✓		Pine & Many Custom Species		70%
KSD Custom Wood Products 603-796-2951; Fax: 603-796-2133 P.O. Box 201 Tilton, NH 03276	Manufacturer of custom wood windows, doors & moldings: commercial, residential & institutional applications; historical reproduction; true-divided-lite muntins, mortise-&-tenon joinery; all shapes & sizes; all glazing options.	Free Write in No. 1409	✓		✓	✓	✓	✓	✓	✓	✓	Awnings, Weight & Pulley	Mahogany, Eastern White Pine, Red & White Oak	Bronze, Bulb	100%
Loewen Windows 800-563-9367; Fax: 204-326-5227 www.loewen.com Steinbach, MB, Canada R0A 2A0	Manufacturer of windows & doors in West Coast Douglas fir: all types of wood windows; double & secondary weather stripping; metal cladding; large sizes & innovative operating models; residential & commercial projects.	Free Write in No. 1415	✓	✓	✓	✓	✓	✓	✓	✓	✓	Awning, Sliding, Bow & Bay & Access	West Coast Douglas Fir	Double & Secondary	15%
Marvin Windows and Doors 888-537-8268; Fax: 218-386-4027 www.marvin.com Warroad, MN 56763	Manufacturer of wood windows & doors: clad & clad/wood; custom sizes & over 11,000 standard sizes.	Free Write in No. 1263	✓	✓	✓	✓	✓	✓	✓	✓	✓	Variation Double Hungs, French Casement, Custom, & more	Ponderosa Pine & Other Select Species	Dual Barometer & Bulb & Leaf	100%
Maurer & Shepherd, Joiners 860-633-2383; Fax: 860-633-7231 www.period-homes.com/brochure/maure Glastonbury, CT 06033	Supplier of historical reproduction architectural millwork: windows, doors, entryways & raised paneling: pine & mahogany.	Free Call for more information.	✓		✓	✓	✓	✓		✓	✓		Mahogany & Pine		100%
Millwork Specialties 800-592-7112, Fax: 718-965-3974 www.millwork-specialties.com Brooklyn, NY 11215	Custom millwork shop: landmark windows, doors & entryways; commercial & residential; all wood species; bent, round, or arched tops; door hardware.	Free Write in No. 3050	✓		✓	✓	✓	✓	✓	✓	✓	Bent Glass, Insulated Glass & Weight & Chain	Mahogany, Pine, Oak & Cherry	Zinc, Bronze & Vinyl	100%
Mon-Ray, Inc. 800-544-3646; Fax: 763-546-8977 www.monray.com Minneapolis, MN 55427	Fabricator of secondary high-performance glazing: wood & metal storm windows; exterior & interior applications on existing operating & fixed openings; can match existing window designs & shapes; historical, residential & commercial.	Free Write in No. 1042			✓	✓	✓	✓			✓				90%
Parrett Mfg., Inc. 800-541-9527; Fax: 715-654-6555 www.parrettwindows.com Dorchester, WI 54425	Manufacturer of custom windows, grillework & casings: true divided lite, simulated divided lite & removable grilles; all shapes, sizes & options to exact specifications; residential, commercial, church & restoration market.	Free Write in No. 3003	✓	✓	✓	✓	✓	✓	✓	✓	✓	Bent, French Casement & Weight & Chain	All Wood Species, New & Recycled	Vinyl, Foam, Metal, Brush & Custom	100%
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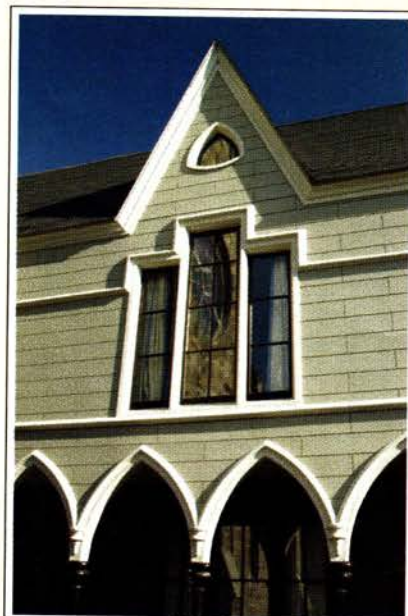
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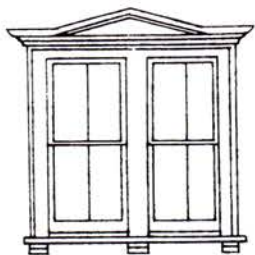


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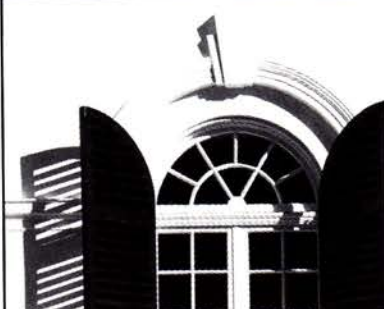
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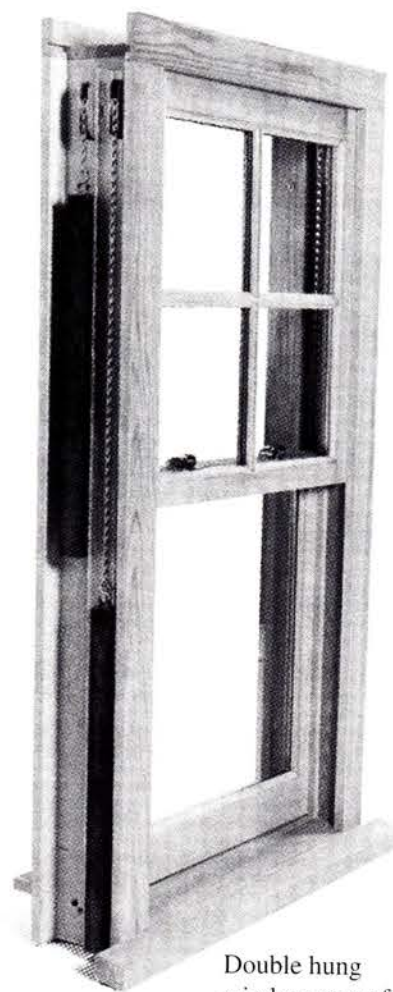
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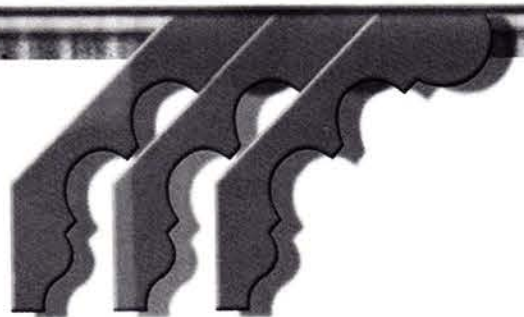
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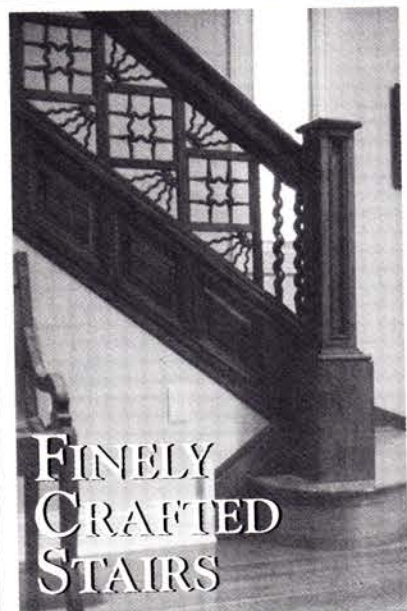


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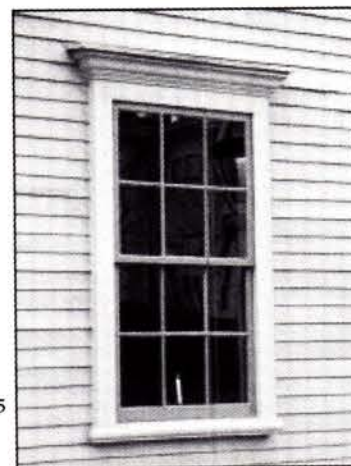
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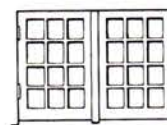
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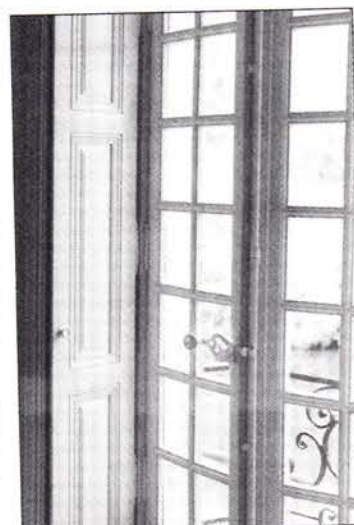
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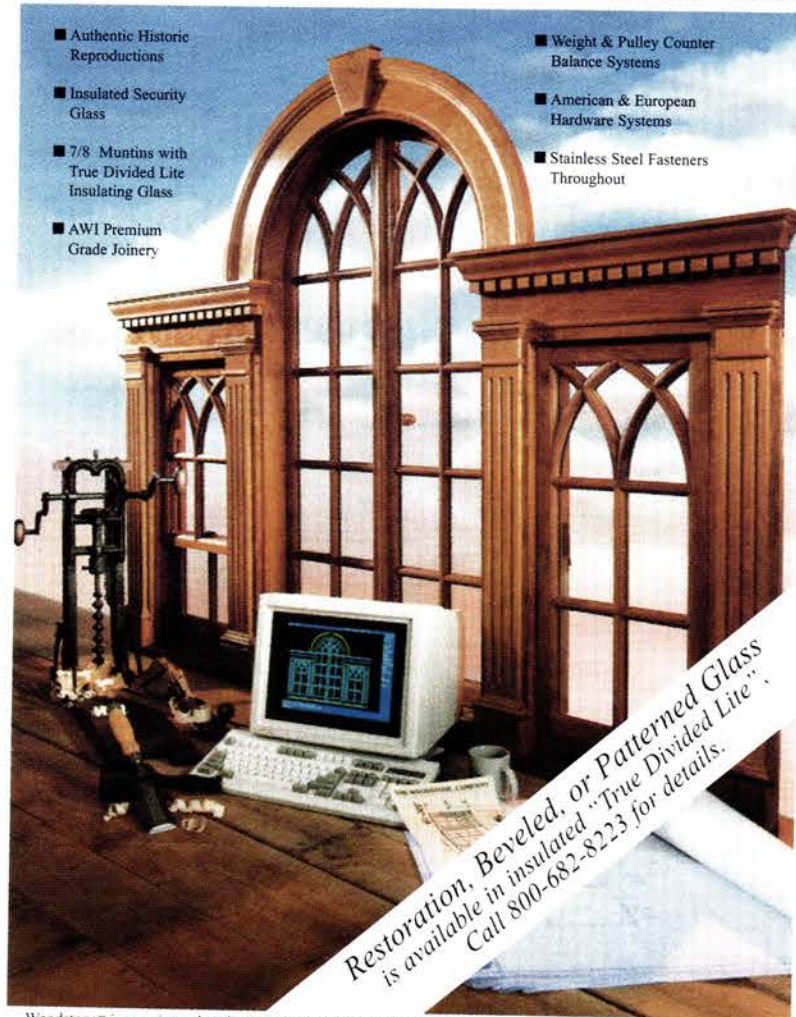
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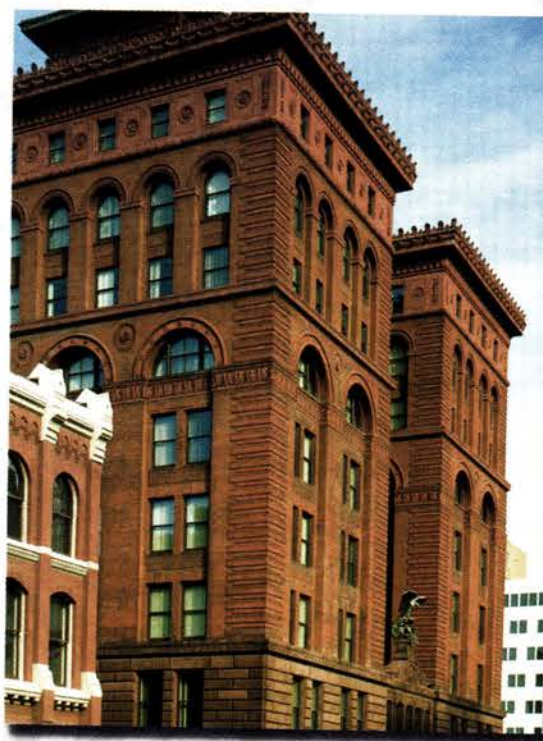
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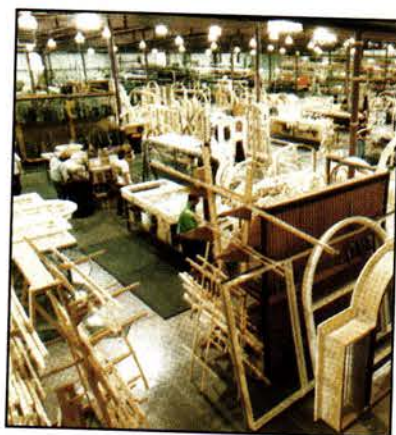
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WRITE IN NO. 3003

WEIGHT-AND-PULLEY DESIGN ISSUES

As the weight-and-pulley balance system for wood windows becomes popular again, attention must be paid to proper design.

by Walter Phelps, President, Phelps Company

The weight-and-pulley balance system for double-hung windows was, for many years, the standard in wood-window construction. The inherent dependability of this system is once again bringing it into favor with quality-minded architects, builders, and window fabricators. This article will examine some of the factors affecting the specification and design of weight-and-pulley balance systems for today's windows.

The basic principle of a weight-and-pulley balance system is simple: A vertically sliding sash is attached to, and suspended by, lengths of cord or chain. Each cord or chain is passed over a pulley mortised into the jamb near the top of the opening. The opposite end of each cord or chain is attached to an iron, steel, or lead counterweight weighing one-half the weight of the sash it is balancing, which will be located within a concealed space or weight pocket. An accurate design will result in sash that require little or no effort to operate and that will remain open or closed as desired.

Components

There are four important components to a properly designed weight-and-pulley window balance system.

Weight

- The combined weight of the counterweights must match the full weight of the glazed sash to which it is attached.
- The counterweights must fit side by side within the weight pocket, and must not strike each other during their vertical travel.
- The counterweight length must permit vertical travel within the sash pocket equal to the vertical travel required for the sash being balanced.

Sash Pulleys

- The diameter of the sash pulleys to be specified must be sufficient to suspend the counterweight free of contact with the window jamb.
- The sash pulley specified should be designed to carry one-half the weight of the glazed sash smoothly and dependably throughout the life of the window.

Sash Chain or Cord

- The specified sash chain or cord should fit the specified pulley and should have a load-carrying capacity that exceeds the weight of the counterweights to which it is attached.

Counterweight Access

- Access to the sash counterweights is essential for a well-designed system.
- Access pockets should be sized and located so as to permit removal and reattachment of the counterweights should sash chain or cord ever fail.

The specifications of a weight-and-pulley balance system are directly affected by the dimensions and weight of the sash in the design. The manner in which these two criteria affect the specification of the other component parts is outlined below:

Sash Dimensions

- **Width:** Windows that are wide in proportion to their height will be heavy in proportion to their height; a counterweight for a short, wide window must be heavy in proportion to its length, because the vertical space available for the travel of the weight is limited.
- **Thickness:** Since the counterweights for the upper and lower sashes of a double-hung window operate side by side within the pocket, the sash thickness places a limitation on the cross-sectional dimensions of the counterweights. For example, a 1-3/8-in. sash will weigh only slightly less than a 1-3/4-in. sash with the same glazing, yet it will require a thinner, and therefore longer, counterweight.

Glazing

The largest percentage of the weight of a window sash is in the glazing. The type of glass specified will therefore have a direct effect not only on the weight of the sash, but also on its required counterweight. A sash glazed with sealed insulating glass will weigh nearly twice as much as the same sash with single glazing and, therefore, will require a counterweight twice as heavy. It is crucial to the system design that the thickness of the glass be specified at the outset and the finished sash weight calculated prior to the

specification of the balance components. Any changes to the glazing specifications may require respecification of the other components. Note that insulating glass is made of two separate sheets of hermetically sealed glass. The thickness of each sheet must be specified so that the weight may be calculated. The overall thickness of the sealed unit does not materially affect its weight.

Two other factors to consider in system design are the jamb thickness and the location of the sash pulleys. The thickness of the window-frame side jamb in which the sash pulley is mounted, in conjunction with the sash pulley diameter, will determine how large the cross-section of a counterweight can be and still hang freely within the weight pocket.

Locating the sash pulleys as high as possible within the sash opening increases the vertical space available to the counterweight for its travel within the weight pocket. Locating the pulleys' faceplates too close to the head jamb, however, may make installation difficult. A distance of 1-1/2 in. down from the head jamb is recommended.

In conclusion, it is useful to remember the reasons that contribute to making the weight-and-pulley balance system a permanent and reliable mechanical system for the operation of double-hung wood windows.

- The inherent longevity of the components and the materials from which they are made. Weight-and-pulley balance systems using sash chain are still functioning perfectly after nearly 100 years of use.
- The reparability of the system makes its functional life extendable. All components are accessible and replaceable.
- The dependable nature of gravity.

Selecting Sash Chain

The higher initial cost of sash chain, compared to sash cord, is offset by the chain's longer useful life. Chain should be selected for material, load rating, and size. As for materials, sash chain is available in bronze and, to a limited extent, brass and stainless steel.

A sash weighing 30 lbs. will place a static load of 15 lbs. on each of the two sash chains that suspend it. Suddenly raising, lowering, or stopping the travel of the sash, however, will create an instantaneous load exceeding the normal static load by many times. For this reason, it is advisable to select chain with the highest load-rating capacity with a width that will fit the pulley wheel groove.

Sash chain is manufactured in trade sizes determined by width, links per foot, and gauge of material. As stated above, chain should be selected for the maximum load-carrying capacity that will fit the pulley groove.

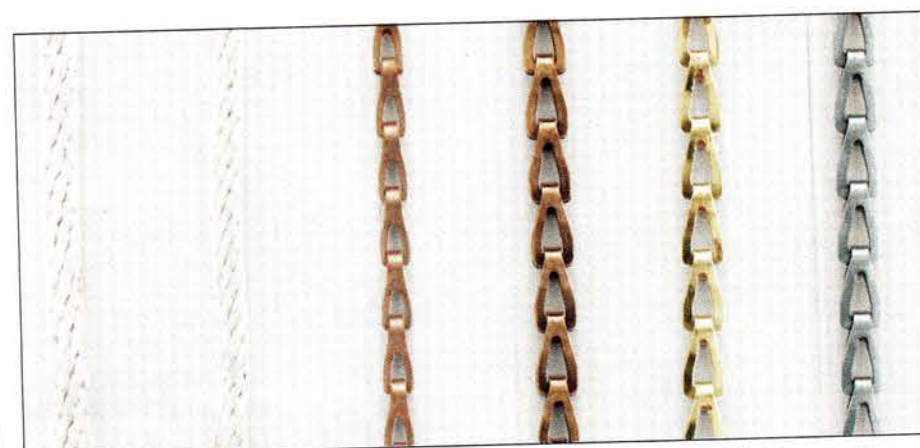
For double-hung windows, the approximate total required amount of chain can be calculated by the following formula: (half the sash opening height + 2 ft.) x 4. ■



Sectional sash weights have several advantages over one-piece weights. The size of access pockets can be reduced, and sash can be weighed and precisely balanced after fabrication. Square weights are heavier in proportion to their length than round weights.

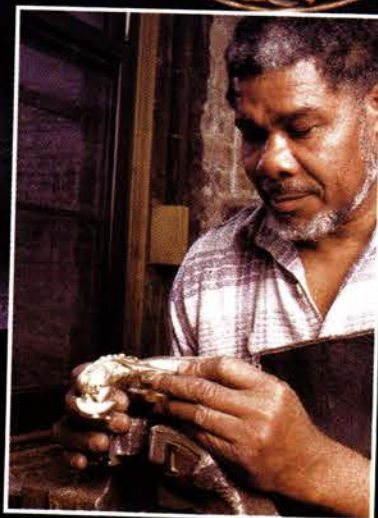


High-quality ball-bearing sash pulleys are manufactured in several sizes, with rectangular- or radiussed-end faceplates. When selecting an appropriate pulley, special consideration should be given to wheel diameter.



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W^{TRADITIONAL BUILDING SourceList} WINDOW HARDWARE

COMPILED BY MARTHA MCDONALD

CSI#08710

COMPANY	SPECIALTY	Literature	Types											Materials			
			Casement Hardware	Window Locks	Sash Lifts	Sash Pulleys	Sash Weights	Shutter Hardware	Transom Operators	Window Balances	Awning Hardware	Drapery Hardware	Other	Aluminum	Steel	Bronze	Stainless Steel
Al Bar-Wilmette Platers 847-251-0187; Fax: 847-251-0281 www.albarwilmetteplaters.com Wilmette, IL 60091	Refinisher of antique hardware: bronze, brass, copper, nickel, pewter, gold, silver & chrome; matches any finish; collection of antique salvage hardware.	Free Write in No. 2636		✓	✓												
Alhambra Hardware Co., Inc. 800-461-0060; Fax: 416-780-1814 www.alhambra-hardware.com Toronto, ON, Canada M6B 1V9	Designer & manufacturer of Curtains Up decorative hardware: rods, rings, finials, brackets, tiebacks & accessories; cast resin, forged & cast iron & aluminum; sold through distributors.	Free Write in No. 9200										✓					
Architectural Products by Outwater 800-835-4400; Fax: 800-835-4403 www.outwater.com Wood Ridge, NJ 07075	Supplier of more than 40,000 ready-to-ship building-component products: int./ext. architectural millwork, columns, decorative moldings & trim, wrought-iron components, hardware, lighting & more.	Free Write in No. 1088						✓				✓					
Baldwin Hardware Corp. 800-566-1986; Fax: 610-777-7256 841 E. Wyomissing Blvd. Reading, PA 19612	Supplier of door, window & bath hardware in brass.	Free		✓	✓	✓											✓
Ball & Ball Hardware 610-363-7330; Fax: 610-363-7639 www.ballandball-us.com Exton, PA 19341	Manufacturer of ornamental metalwork & hardware: door, window, shutter & furniture hardware & fireplace tools; wrought iron/steel, aluminum, bronze, brass, copper & cast iron; custom reproductions.	Catalog: \$7.00 Write in No. 2930		✓	✓	✓			✓							✓	
Baltica 508-763-9224; Fax: 508-763-4305 www.baltica.com Mattapoisett, MA 02739	Manufacturer of hand-crafted, European-made architectural fittings: hinge finials, switch plates; custom door, window & cabinet hardware; patented designs; Gothic & Baroque; authorized showrooms worldwide.	Free			✓								Cremone & Surface Bolts				
Bronze Craft Corp. 800-488-7747; Fax: 603-883-0222 www.bronzecraft.com Nashua, NH 03061	Manufacturer of metalwork & hardware: windows, plaques & specialty items; sand-cast brass, bronze & white bronze; historical reproductions & traditional designs available; clerestory window operators.	Free Write in No. 8380		✓	✓	✓	✓			✓			Stainless-Steel Hinges for Casement & Projected Windows	✓		✓	
Cirecast 415-822-3030; Fax: 415-822-3004 www.cirecast.com San Francisco, CA 94124	Manufacturer of historical builders hardware & ornamental castings: railings, lighting, grilles & more; hardware for shutters & pocket doors in brass; replication & refurbishment.	Free Write in No. 2280		✓	✓	✓			✓	✓							
Craftsmen Hardware Co. 660-376-2481; Fax: 660-376-4076 www.craftsmenhardware.com Marceline, MO 64658	Supplier of Arts & Crafts-style lighting & hardware: door, window, cabinet & drapery hardware; hand-hammered copper, brass & bronze; custom.	Free Write in No. 6980															
Crown City Hardware Co. 626-794-1188; Fax: 626-794-2064 www.crowncityhardware.com Pasadena, CA 91104	Supplier of ornamental hardware: glass knobs, bin pulls, mailboxes & door & window hardware; iron, brass, glass & crystal; Victorian & Arts & Crafts; original antique hardware.	Free Write in No. 432		✓													
Frank Allart & Co., Ltd. 888-582-9110; Fax: 888-582-0283 www.allart.co.uk Birmingham, England B16 8DR	Designer & manufacturer of architectural hardware: for double-hung & casement windows; brass & bronze; variety of finishes including unlacquered brass, oil-rubbed bronze, satin nickel & rustic bronze.	Free Write in No. 8004		✓	✓	✓							Flush, Surface & Cremone Bolts				✓
Gerber Hinge Co. 800-643-7237; Fax: 323-655-8533 www.gerberhinge.com Los Angeles, CA 90036	Importer & distributor of ornamental hardware: cabinet, door & window; cremone bolts/espagnolettes; wrought-iron/steel, bronze & brass; hardware from France, Italy & England; special finishes upon request.	Free Write in No. 2540		✓	✓				✓								
Guerin, P.E. 212-243-5270; Fax: 212-727-2290 www.peguerin.com New York, NY 10014	Manufacturer of hardware & accessories: for doors, windows, furniture, objects d'art & baths.	Catalog: \$25.00 Write in No. 1166										✓	Cremone Bolts				
Jamar International 530-333-0590; Fax: 530-333-0594 3561 Dagget Ct. Greenwood, CA 95635	Importer of antique designer hardware for doors, windows & cabinets.	Free Write in No. 1158		✓			✓	✓		✓						✓	✓
Kayne & Son Custom Hardware, Inc. 828-667-8868; Fax: 828-665-8303 www.customforgedhardware.com Candler, NC 28715	Manufacturer & restorer of hardware: functional & dummy strap hinges, shutter hinges, sash locks, latches, pulls, swing arms, hooks, drapery rods, brackets & more; weathervanes, hand-forged steel & cast-brass/bronze; many finishes.	Catalog: \$5.00 Call for more information.		✓	✓	✓			✓			✓				✓	✓
Knobs 'N Knockers 215-794-8045; Fax: 215-794-0435 www.knobsnknockers.com Lahaska, PA 18931	Manufacturer of traditional & contemporary door & window hardware: sash locks, sash lifts, casement fasteners, mortise locks & iron latches; variety of finishes; cabinet fittings, bathroom fixtures, weathervanes & mailboxes.	Free Write in No. 953		✓	✓	✓			✓			✓	Brass Fittings for Windows & Shutters			✓	✓

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W^{TRADITIONAL BUILDING SourceList}INDOW HARDWARE

COMPILED BY MARTHA MCDONALD

CSI#08710

COMPANY	SPECIALTY	Literature	Types										Materials					
			Casement Hardware	Window Locks	Sash Lifts	Sash Pulleys	Sash Weights	Shutter Hardware	Transom Operators	Window Balances	Awning Hardware	Drapery Hardware	Other	Aluminum	Steel	Bronze	Stainless Steel	
Kolson, Inc. 516-487-1224; Fax: 516-487-1231 www.kolson.com Great Neck, NY 11023	Distributor of door & window hardware & bath fixtures: door knobs & knockers, lever handles, hinges, rim & mortise locks, side bolts, door bells & pulls & French door hardware; all styles & most finishes.	Hardcover Binder: \$10.00 Write in No. 3760	✓	✓	✓	✓	✓	✓	✓				✓	Cremone Bolts	✓	✓	✓	✓
Liberty Brass Turning Co. 718-784-2911; Fax: 718-784-2038 www.libertybrass.com Long Island City, NY 11101	Manufacturer of metal components: drawer pulls, window hardware, lamp finials, couplings, turned bar stock knobs, spacers, balls, check rings, furniture & display fittings; brass, aluminum & stainless; custom parts; church projects.	Free Write in No. 8440	✓			✓												
Old & Elegant Distributing 425-455-4660; Fax: 425-455-0203 10203 Main St. Ln. Bellevue, WA 98004	Manufacturer & distributor of door, window & cabinet hardware: hooks, knockers, bathroom sinks & plumbing; traditional & contemporary & salvage items; solid brass & old world iron; custom metal finishing.	Free Write in No. 1570	✓	✓	✓	✓	✓	✓									✓	
Old Smithy Shop 603-672-4113; Fax: Same as phone www.oldsmythshop.com Brookline, NH 03033	Supplier of Early American hand-forged handles & hinges: throated & plain; Suffolk latches, pulls, butterfly, H & HL hinges, butt leaf & pintle straps & more; Harvard Univ. & The Metropolitan Museum of Art display firm's hardware.	Free Write in No. 5110							✓				✓	Wrought Iron				
Patten Design 714-894-0131; Fax: 714-894-0031 15561 Product Ln., #D-5 Huntington Beach, CA 92649	Manufacturer of door & window hardware: knobs, levers, rosettes, escutcheons, cremones, pulls, hinges, medallions & more; aluminum, bronze, brass & stainless steel; all periods & styles on a custom basis.	Free Write in No. 1520	✓											Cremone Bolts			✓	
Phelps Co. 802-257-4314; Fax: 802-258-2270 60 Elm St. Brattleboro, VT 05301	Manufacturer & designer of traditional hot-forged solid-brass window hardware: sash pulleys & chain, casement stays, fasteners, locks, lifts, storm/screen hangars, bronze screen wire & sash weights; same day shipping for most items.	Free Write in No. 6001	✓	✓	✓	✓	✓							Window Spring Bolts, Ventilation Locks & Bronze				
Pullman Mfg. Corp. 585-334-1350; Fax: 585-359-4460 www.pullmanmfg.com Rochester, NY 14623	Manufacturer of counterbalances: for window sashes (to replace weights, chains & pulleys); residential/historic/commercial/industrial applications.	Free Write in No. 1048				✓	✓	✓			✓					✓		✓
Re-View 816-741-2876; Fax: 816-746-9331 www.re-view.biz Riverside, MO 64150	Restorer of historic window hardware: sash pulleys, weights & chains, tape balances, hidden balances, locks, lifts, pulls, cranks & handles; replication.	Free Write in No. 744	✓	✓	✓	✓	✓	✓	✓		✓		✓	Custom Plating	✓	✓	✓	✓
Rocky Mountain Hardware 888-583-0154; Fax: 208-788-2577 www.rockymountainhardware.com Hailey, ID 83333	Manufacturer of hand-crafted solid-bronze architectural hardware: door, window, bath, sink & cabinet hardware & kitchen accessories; 7 different finishes; traditional, contemporary & other styles.	Free Write in No. 7720	✓	✓	✓				✓								✓	
Spitzer Architectural Hardware Custom Trades International, Inc. 203-531-3493; Fax: 203-532-9727 www.customtrades.com Greenwich, CT 06831	Producer of hand-crafted architectural hardware for windows & doors: contemporary, Baroque, Gothic, Art Nouveau & other styles; brass, bronze, stainless steel & chrome; home accessories.	Free Write in No. 1083	✓							✓		✓		Brass & Chrome Hardware		✓	✓	
Sun Valley Bronze 208-788-3631; Fax: 208-788-1306 www.svbronze.com Hailey, ID 83333	Designer & manufacturer of cast-metal ornament & hardware: door, window, kitchen, bath & cabinet hardware in bronze; gate latches, sinks, faucets, pot racks & tiles; in a variety of hand-applied patinas.	Free Write in No. 136	✓	✓	✓				✓				✓				✓	
The Golden Lion 310-398-2848; Fax: 310-398-0605 www.goldenlion.org Los Angeles, CA 90066	Importer of European hardware & accessories: hand-forged wrought iron & bronze; traditional & period styles.	Free Write in No. 115		✓	✓					✓			✓				✓	✓
Ultra Hardware Products, LLC 800-426-6379; Fax: 800-858-7210 www.ultrahardware.com Pennsauken, NJ 08110	Manufacturer of vintage-style door, window & home hardware: locksets, door knockers, strap & door hinges, pulls, push plates, letter slots, hooks, sash locks & more; brass, black iron, satin nickel, antique pewter & chrome finishes.	Free	✓	✓						✓			✓	Sash Locks, Wrought Iron & Solid Brass			✓	

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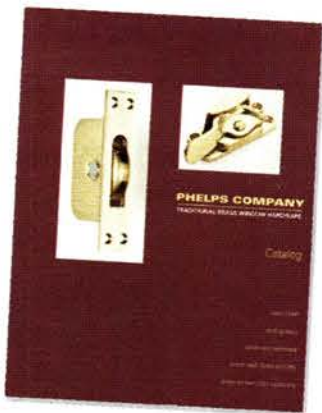


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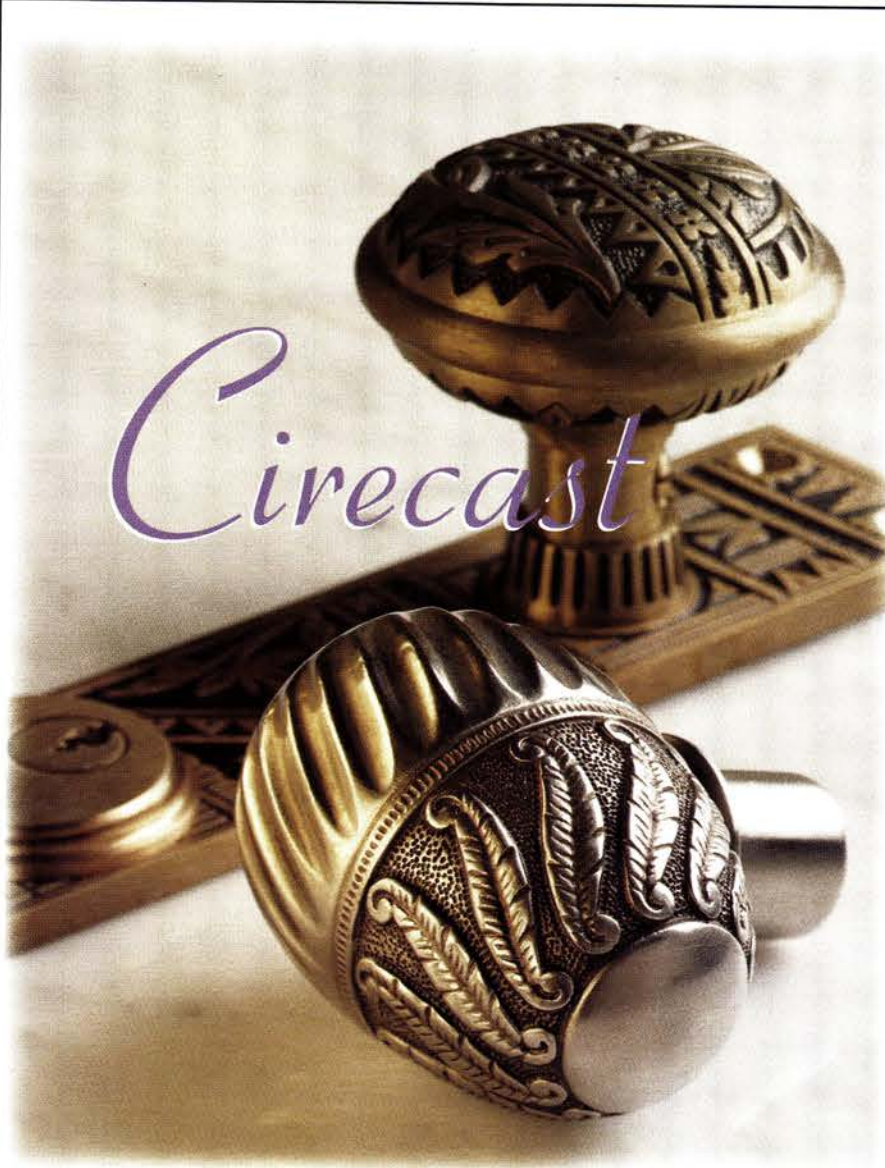
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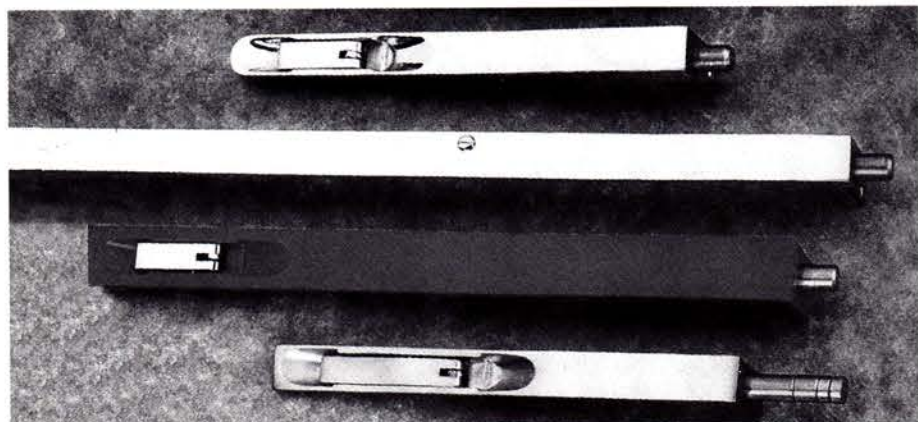
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WINDOW HARDWARE PORTFOLIO

For full contact information on these companies, consult the SourceList on pp. 158-160.



BALDWIN's solid-brass sash lift, model #470, was designed to coordinate with forged-brass sash lock.



FRANK ALLART & CO. designed and manufactured these flush bolts in brass and bronze. *Write in No. 8004*



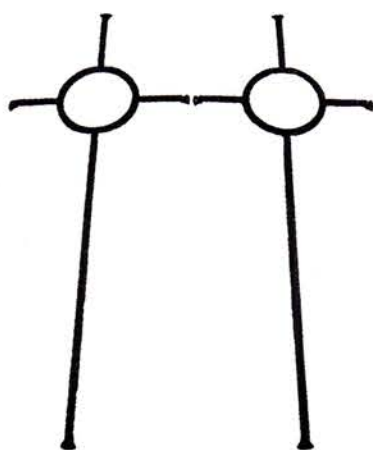
CIRECAST replicated the Windsor sash window lock, as a custom order. *Write in No. 2280*



This window-sash counterbalance from PULLMAN MFG. CORP. easily installs through the pre-existing opening for the original weights and chains. *Write in No. 1048*



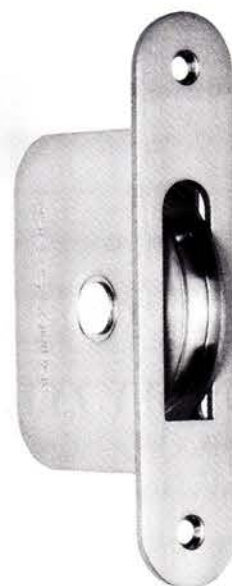
OLD SMITHY SHOP's forged window pins with leather straps secure the upper and lower sections a window together, providing security in an historic manner. *Write in No. 5110*



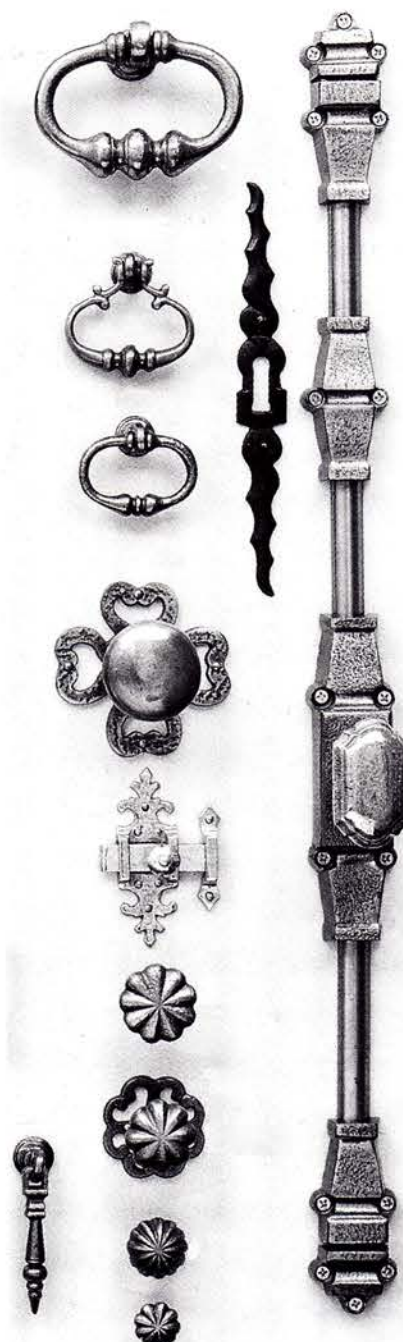
KAYNE & SON hand forged these window grilles in a cross motif. *Call 828-667-8868 for more information.*



Trefoil, model #CUR101 from STEPTOE & WIFE, is a line of window curtain rods fashioned in wood. *Write in No. 9200*



PHELPS CO. manufactured this sash pulley in hot-forged solid brass. *Write in No. 6001*



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The Sash pulley #245-009 from BRONZE CRAFT CORP. provides a 1-1/2-in.-dia. wheel for light-duty window frames. *Write in No. 8580*



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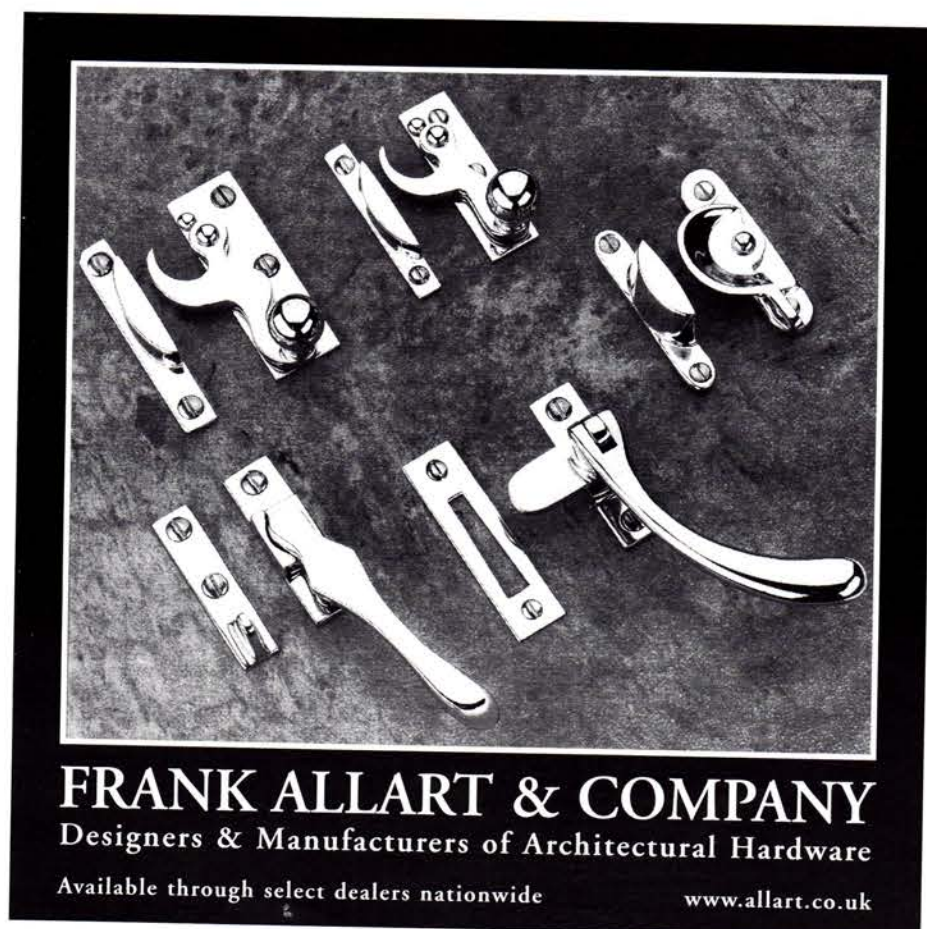
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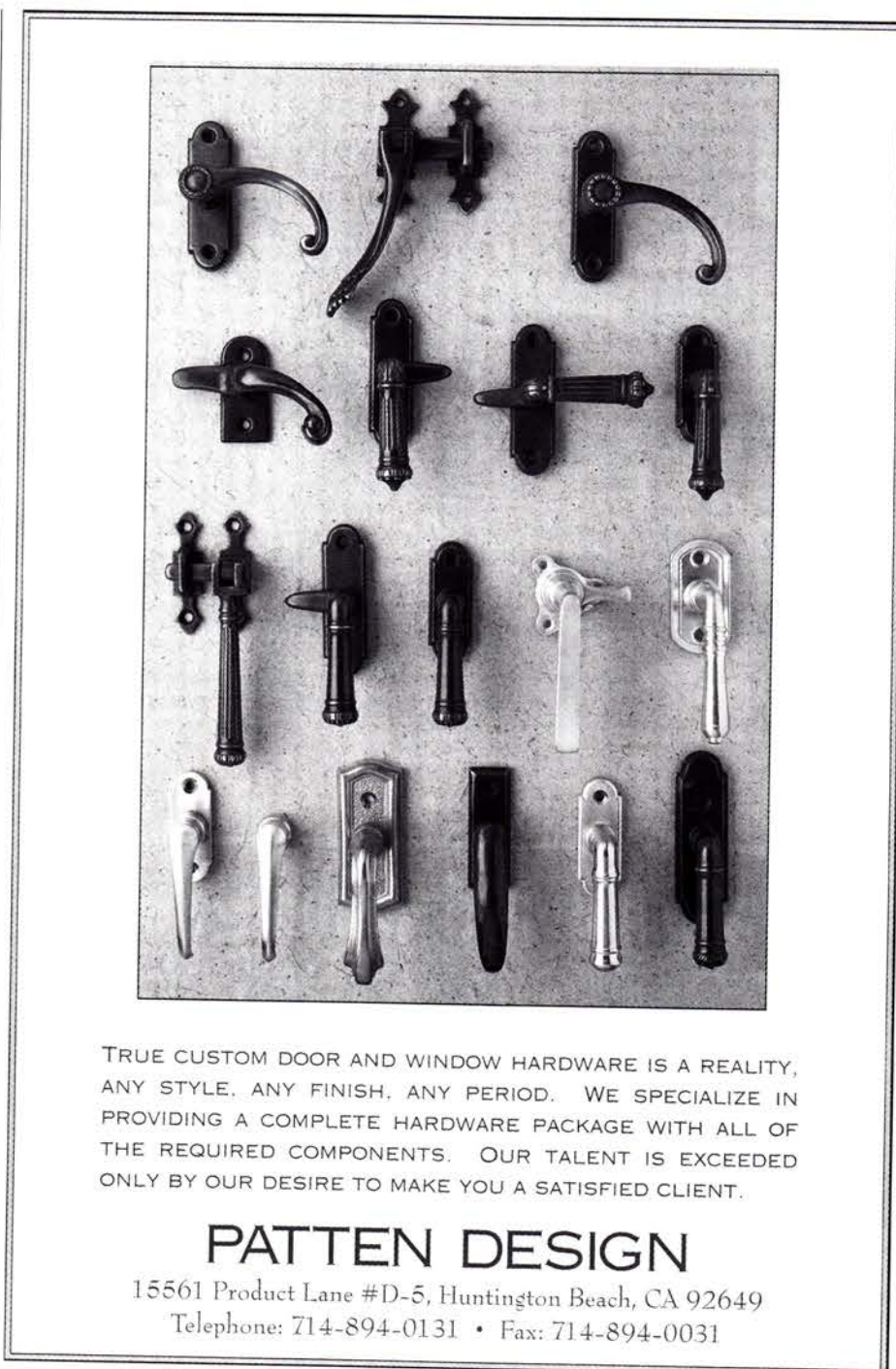
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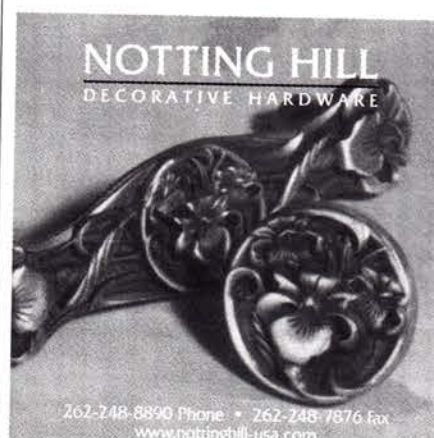
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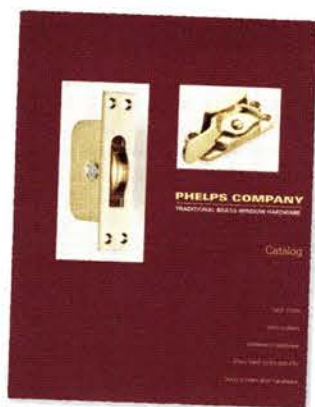
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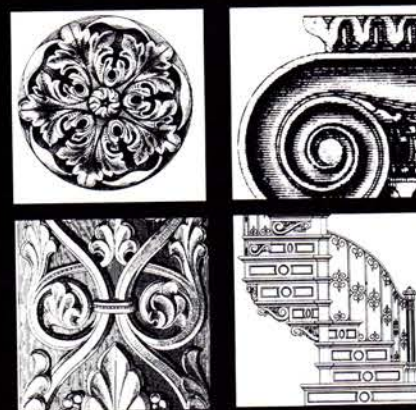
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TRADITIONAL BUILDING SourceList
METAL WINDOWS

COMPILED BY MARTHA MCDONALD

CSI#08510

About the SourceList and Portfolio

To create this SourceList and the Portfolio that accompanies it, the Editors contacted suppliers of Metal Windows from our database of companies that provide historical products and services to our audience of design and building professionals. From the companies' responses, the Editors selected the

suppliers you'll find below because they provide a good up-to-date cross-section of the market, both geographically and in the variety of their offerings. The Portfolio of products and services available from the companies listed here begins on page 168.

COMPANY	SPECIALTY	Literature	Materials					Types											% Custom
			Aluminum	Steel	Bronze	Stainless Steel	Other	Single Hung	Double Hung	Casement	Rolling	Pivot	Awning	Projecting	Fixed Lite	Round Top	Other		
A&S Window Associates, Inc. 718-275-7900; Fax: 718-997-7683 www.aswindowassociates.com Glendale, NY 11385	Manufacturer of steel windows & doors: meet landmark-preservation requirements; residential, commercial & government installations; matching of old steel profiles with various hot-rolled sections.	Free Write in No. 8350		✓							✓		✓	✓	✓	✓		100%	
Allied Window, Inc. 800-445-5411; Fax: 513-559-1883 www.alliedwindow.com Cincinnati, OH 45241	Manufacturer, custom fabricator & installer of Invisible storm windows: custom colors, special shapes & special glazing materials; protection from UV & vandalism; interior or exterior; aluminum.	Free Write in No. 690	✓						✓	✓	✓	✓				✓	✓	Magnetic (Interior), Blinds & Film	100%
Cityproof Interior Windows 718-786-1600; Fax: 718-786-2713 www.cityproof.com Long Island City, NY 11101	Manufacturer of custom interior window systems: windows eliminate drafts, increase thermal efficiency & seal up to 95% of noise; lexan, UV-resistant, standard, low-E & tempered glass; residential, commercial & institutional applications.	Free Write in No. 2390	✓						✓	✓	✓	✓	✓	✓	✓	✓	✓	Custom Shapes & Custom Glazing	100%
Crittall Windows, Ltd. 203-799-2356; Fax: 203-799-8873 www.crittallna.com Orange, CT 06477	Manufacturer of powder-coated, hot-dipped, galvanized steel windows: in 50 standard colors or custom colors; 10-year factory warranty.	Free Write in No. 1387		✓	✓				✓		✓		✓	✓	✓	✓	✓	Custom Sizes & Shapes	90%
Fox Steel Company 203-799-2356; Fax: 203-799-8873 www.foxsteel.com Orange, CT 06477	Distributor of Crittall powder-coated, hot-dip-galvanized steel windows: in 50 standard colors & custom colors; 10-year factory warranty.	Free Write in No. 992		✓	✓				✓		✓		✓	✓	✓	✓	✓	Custom Sizes & Shapes	90%
Grabill Windows & Doors 810-798-2817; Fax: 810-798-2809 www.grabillwindow.com Almont, MI 48003	Manufacturer of doors & windows: lift & sliding doors, tilt-turn windows, moldings & trim; wood/bronze cladding; historical reproductions & custom work.	Free Write in No. 1910			✓						✓			✓			✓	Tilt & Turn	90%
Heather & Little, Ltd. 800-450-0659; Fax: 905-475-9764 www.heatherandlittle.com Markham, ON, Canada L3R 0H1	Custom fabricator & supplier of sheetmetal roofing & specialty architectural sheetmetal: finials, cornices, lionheads, cresting, canopies, shingles, siding, cupolas, steeples, domes & snowguards; reproductions; custom metal windows.	Free Write in No. 2470			✓				✓	✓	✓	✓	✓	✓	✓	✓	✓		100%
Heritage Window & Door 313-893-2000; Fax: 313-893-2007 www.heritagewindowanddoor.com Detroit, MI 48212	Custom fabricator of factory steel-type windows for heavy commercial & architectural replacement: vandal-resistant; projected, casement, sliding, single- & double-hung; true or applied muntins.	Free Write in No. 9710	✓						✓	✓	✓	✓		✓	✓		✓	Custom Replication	100%
Historical Arts & Casting, Inc. 800-225-1414; Fax: 801-280-2493 www.historicalarts.com West Jordan, UT 84088	Designer & custom fabricator of ornamental metalwork: bronze windows, stairs, columns, balusters, railings, lighting, planters & urns, fountains, facades & more; iron, bronze, aluminum & steel; restoration & custom projects.	Free Write in No. 1210	✓	✓	✓				✓	✓	✓					✓	Hurricane Certified	75%	
Loewen Windows 800-563-9367; Fax: 204-326-5227 www.loewen.com Steinbach, MB, Canada R0A 2A0	Manufacturer of windows & doors in West Coast Douglas fir: all types of wood windows; double & secondary weather stripping; metal cladding; large sizes & innovative operating models; residential & commercial projects.	Free Write in No. 1415								✓	✓			✓				Sliding & Custom	15%
Mon-Ray, Inc. 800-544-3646; Fax: 763-546-8977 www.monray.com Minneapolis, MN 55427	Fabricator of secondary high-performance glazing: wood & metal storm windows; exterior & interior applications on existing operating & fixed openings; can match existing window designs & shapes; historical, residential & commercial.	Free Write in No. 1042	✓						✓	✓		✓		✓			✓	Acoustic & Hurricane Rated; Custom	90%
Re-View 816-741-2876; Fax: 816-746-9331 www.re-view.biz Riverside, MO 64150	Restorer of historic windows: replication, refurbishment, abatement, installation, trim carpentry & finishing; hardware restoration & insulated-glass conversion; commercial projects; across the country.	Free Write in No. 744	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓		90%
REBCO, Inc. 973-684-0200; Fax: 973-684-0118 www.rebcoinc.com Paterson, NJ 07509	Manufacturer of metal commercial doors, entrances, sliders & windows: casement, vent, hopper & fixed; storefront systems; aluminum extrusions, sheets, panels & stock lengths; custom fabrication, colors & finishes.	Free Write in No. 981	✓								✓			✓	✓	✓	✓	100%	
Rohlf's Stained & Leaded Glass Studio 800-969-4106; Fax: 914-699-7091 www.rohlfstudio.com Mount Vernon, NY 10550	Custom fabricator of steel frames & casement windows & stained & leaded glass: beveled, etched, carved, fused/slumped glass; new designs & replications; protective glazing, steel-casement retrofitting & more.	Free Write in No. 6240	✓	✓	✓	✓					✓		✓			✓	✓		100%



TRADITIONAL BUILDING SourceList METAL WINDOWS

COMPILED BY MARTHA MCDONALD

CSI#08510

COMPANY	SPECIALTY	Literature	Materials					Types										% Custom
			Aluminum	Steel	Bronze	Stainless Steel	Other	Single Hung	Double Hung	Casement	Rolling	Pivot	Awning	Projecting	Fixed Lite	Round Top	Other	
Seekircher Steel Window Repair Corp. 914-725-1904; Fax: 914-725-1122 2 Weaver St. Scarsdale, NY 10583	Restorer of steel casement windows & doors: residential, commercial & historic; all work done on-site; repaired & restored all steel windows & doors at Frank Lloyd Wright's Falling Water.	Free Write in No. 3590		✓						✓							Custom Replication	100%
Skyline Windows 212-491-3000; Fax: 212-491-5630 www.skylinewindows.com New York, NY 10027	Manufacturer of over 10 custom window lines: steel & steel/wood windows; contemporary to historic profiles; restoration & replacement of wood windows; upper-end residential, commercial & institutional installations.	Free Write in No. 8870		✓				✓	✓	✓			✓	✓	✓	✓	Fan Lites & Custom Replication	70%
Sorpetaler Windows From Custom Trades International 203-531-3493; Fax: 203-532-9727 www.customtrades.com Greenwich, CT 06831	Custom fabricator of wood windows & doors: all species, finishes & glazing to specification; hardware; residential, institutional & historic properties; clad & metal window systems; since 1881.	Free Write in No. 1083	✓		✓					✓	✓	✓	✓	✓	✓	✓	Tilt & Turn	100%
Sugarcreek Industries, Inc. 330-852-2416; Fax: 330-852-2490 www.pdgsi.com Sugarcreek, OH 44681	Manufacturer of aluminum storm & screen doors: wide variety of styles; finished with an electrostatically applied polyester enamel in 11 colors; a 25-year warranty is offered on all products.	Free	✓						✓		✓				✓			100%
SwissShade + Security, Inc. 520-822-1982; Fax: 520-822-1649 www.swissshade.com Tucson, AZ 85735	Importer & manufacturer of wood, aluminum & vinyl windows & doors: plug-in African mahogany, African light oak & Swedish hemlock/fir; architectural elements to match any architectural style; residential & commercial.	Free	✓							✓			✓	✓	✓	✓	Tilt & Turn	100%
Torrance Steel Window Co. 310-328-9181; Fax: 310-328-7485 1819 Abalone Ave. Torrance, CA 90501	Custom fabricator of steel casement windows, doors, storefronts & skylights in three grades: light intermediate, standard intermediate & heavy intermediate residential/architectural; stock & custom sizes.	Free Write in No. 8330		✓						✓		✓	✓	✓	✓	✓	Custom Replication	100%

CALENDAR OF EVENTS

THE PALLADIO AWARDS. Annual award competition for Excellence in Traditional Design is co-produced by *PERIOD HOMES* and *TRADITIONAL BUILDING* magazines; awards are given in the areas of Residential Architecture and Commercial/Civic/Institutional Architecture. For complete details about past winners and entering the 2004 competition, log onto www.traditional-building.com or www.period-homes.com.

CLASSICAL ARCHITECTURE COURSES, TOURS & PROGRAMS. The Institute of Classical Architecture has developed an extensive national and international program of Lectures, Study Tours, Courses, Salons, and Programs. Continuing-education courses, eligible for AIA continuing-education credits, in many of the design areas of classical architecture are offered year-round by the Institute at the classroom facilities in New York City. For a full list of events and programs, log onto the Institute website at www.classicist.org.

RESTORATION & RENOVATION SHOW & CONFERENCE. The Baltimore, Md., Convention Center will be the site of the Spring edition of the Restoration & Renovation Exhibition & Conference, on March 20-23, 2003. The event is the largest in North America dealing with preservation and historically informed new construction. Contact the Show Management at (800) 982-6247, e-mail to info@restoremia.com, or log onto the website at www.restorationandrenovation.com.

TILE & STONE EXPOSITION. The annual International Tile & Stone Exposition will be held March 24-27, 2003, in the Orange County Convention Center, Orlando, Fla. For more details, log onto www.coverings.com.

2003 STONE SYMPOSIUM. The Stone Foundation, an organization of stone masons, design professionals, artisans, and allied trades, is sponsoring the 2003 Stone Symposium, April 4-7, 2003, in Santa Fe, N.M. Presentations on lime mortars and dry-stone work with hands-on instruction, along with speakers on stonework in contemporary architecture and stone art. For more information, log onto www.stonefoundation.org, or contact tomas@stonefoundation.org.

THE CSI SHOW. The next annual CSI Show, owned and managed by the Construction Specifications Institute, will be held April 9-11, 2003, at McCormick Place, in Chicago, Ill. For more information, log onto www.thecsisshow.com.

AIA NATIONAL CONVENTION & EXPO. The next annual meeting and exposition of the American Institute of Architects is being held in San Diego, Calif., at the San Diego Convention Center, May 8-10, 2003. The event will draw more than 19,000 key industry professionals and 600 exhibitors. For full details, log onto www.aia.org. Or call (800) 242-3837.

COVERED BRIDGE RESTORATION CONFERENCE. A national conference, co-sponsored by The National Park Service and the Preservation Education Institute, is being held in Burlington, VT, June 5-7, 2003, on the campus of the Univ. of Vermont. Theme of the conference is: "Best Practices, Care, and Repair of Covered Bridges." In conjunction with the conference, *TRADITIONAL BUILDING* magazine is sponsoring a Special Palladio Award to honor outstanding achievement in covered bridge restoration. For more information about the conference, visit www.uvm.edu/coveredbridge, or e-mail coveredbridges@uvm.edu, or call The Preservation Education Institute at (802) 674-6752.

TRADITIONAL BUILDING SKILLS WORKSHOPS. The Traditional Building Skills Institute at Snow College in Ephraim, Utah, is sponsoring a series of three-day workshops during June & July in 2003: Wood Carving, June 5-7; Stained Glass Restoration, June 19-21; Faux Painting, July 17-19; Wood Furniture Making, July 31, Aug. 2. For more details and registration information, call (435) 283-7324, e-mail jan.cragun@snow.edu, or log onto www.snow.edu/tbsi.

SUMMER & FALL PRESERVATION COURSES. The Campbell Center for Historic Preservation Studies, Mt. Carroll, Ill., has just published its Course Calendar for the Summer and Fall of 2003. A total of 47 courses are being given from May through

October 2003 in the areas of Historic Preservation, Care of Collections, and Conservation Refresher Courses. Most courses are three to six days in length, ending on Saturday to allow participants to take advantage of reduced air fares with a Saturday overnight. For full program details, call (815) 244-1173 or log onto www.campbellcenter.org.

EXHIBIT: THE LEANING TOWER OF PISA. An exhibit dramatizing the 10-year restoration effort that saved the Leaning Tower of Pisa will be on display, July 1 to August 31, 2003, at the United Nations Headquarters in New York City. A symposium devoted to the preservation technology involved will be held during the exhibit. For more information: www.provincia.pisa.it.

METALCON 2003. Metalcon International, the annual conference and trade show sponsored by the Metal Construction Assn., will be held at the Tampa Convention Center, Tampa, FL, Oct. 28-30, 2003. For registration or exhibit information, call (800) 537-7765, or log onto www.metalcon.com.

VICTORIAN SOCIETY ANNUAL MEETING. May 21 to 24, 2003 are the next dates for annual meeting of The Victorian Society in America. Convening in Buffalo, N.Y., attendees will see works of renowned architects such as Richardson, Upjohn, Burnham, Stanford White, and Frank Lloyd Wright. For more details, e-mail info@victoriansociety.org.

APTI ANNUAL MEETING. "21st Century Preservation — Conservation and Craftsmanship" is the theme of the annual conference of the Assn. for Preservation Technology, Sept. 17-20, 2003, in Portland, Me. The three major topic areas for the Conference are: Maritime Preservation, Landscape Preservation, and Conservation of Traditional Buildings. For more details on the program, or presenting papers, e-mail query to: APTI2003@aol.com.

RESTORATION & RENOVATION EXHIBITION & CONFERENCE. Autumn edition of the Restoration Show is being held in Chicago, Ill., Sept. 19-21. The event is co-locating with a meeting of the AIA Historic Resources Committee, which will be conducting a session track during the Conference. For more details, log onto www.restorationandrenovation.com.

INTERNATIONAL PRESERVATION TRADES WORKSHOPS. Blandair Farm, near Ellicott City, Md., is the site of the 7th annual gathering of the International Preservation Trades Workshops (IPTW), October 9-11, 2003. Blandair is an 18th-century farm estate of over 300 acres with a mansion house and 10 other structures, which was recently acquired by the Howard County (Md.) government. Sponsored by the Preservation Trades Network, the event is a unique opportunity for design and building professionals to network with some of the nation's leading preservation artisans. For more information, log onto www.ptn.org.

ANNUAL ASLA MEETING & EXPO. The American Society of Landscape Architects annual meeting is being held Oct. 30-Nov. 3, 2003, in New Orleans, La. For details on the program and associated trade show, log onto www.asla.org.

WOOD CARVING WORKSHOPS. Classically trained master woodcarver conducts classes in wood carving for novices as well as professionals looking to take skills to the highest level. Classes for both groups and individuals. For more details, log onto www.klitsas.com.

WORKSHOPS ON HISTORIC LIME MORTARS. Comprehensive two-day course details the why and how of using lime putty mortars for repointing historic masonry. Workshop combines lecture and laboratory work with hands-on lime slaking and repointing on all different types of historic masonry walls. For course schedules and registration details, call (773) 286-2100 or log onto www.usheritage.com.

HISTORIC PRESERVATION SEMINARS. The National Preservation Institute has a schedule of seminars in Historic Preservation & Cultural Resource Management running from March through November in cities across the U.S. Seminars vary in length from one to three days and qualify for AIA continuing education credits. For full schedule details, log onto www.npi.org.



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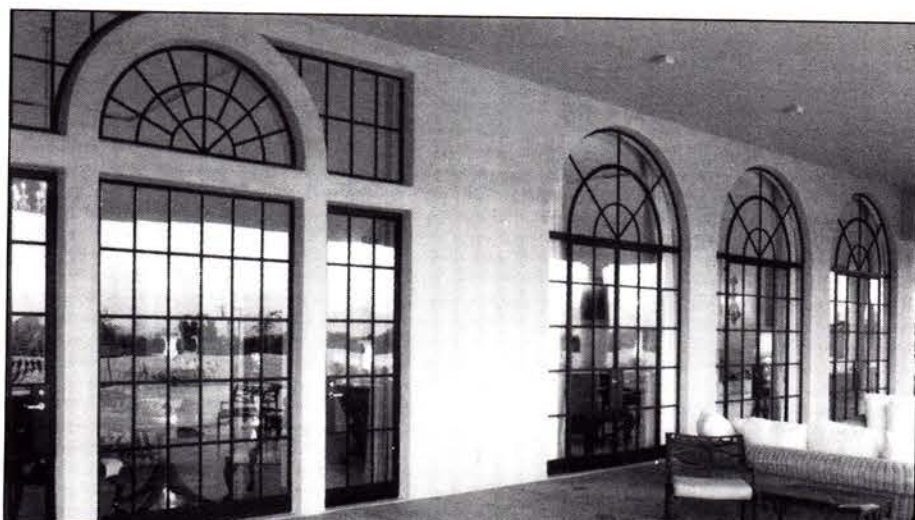


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as well as our
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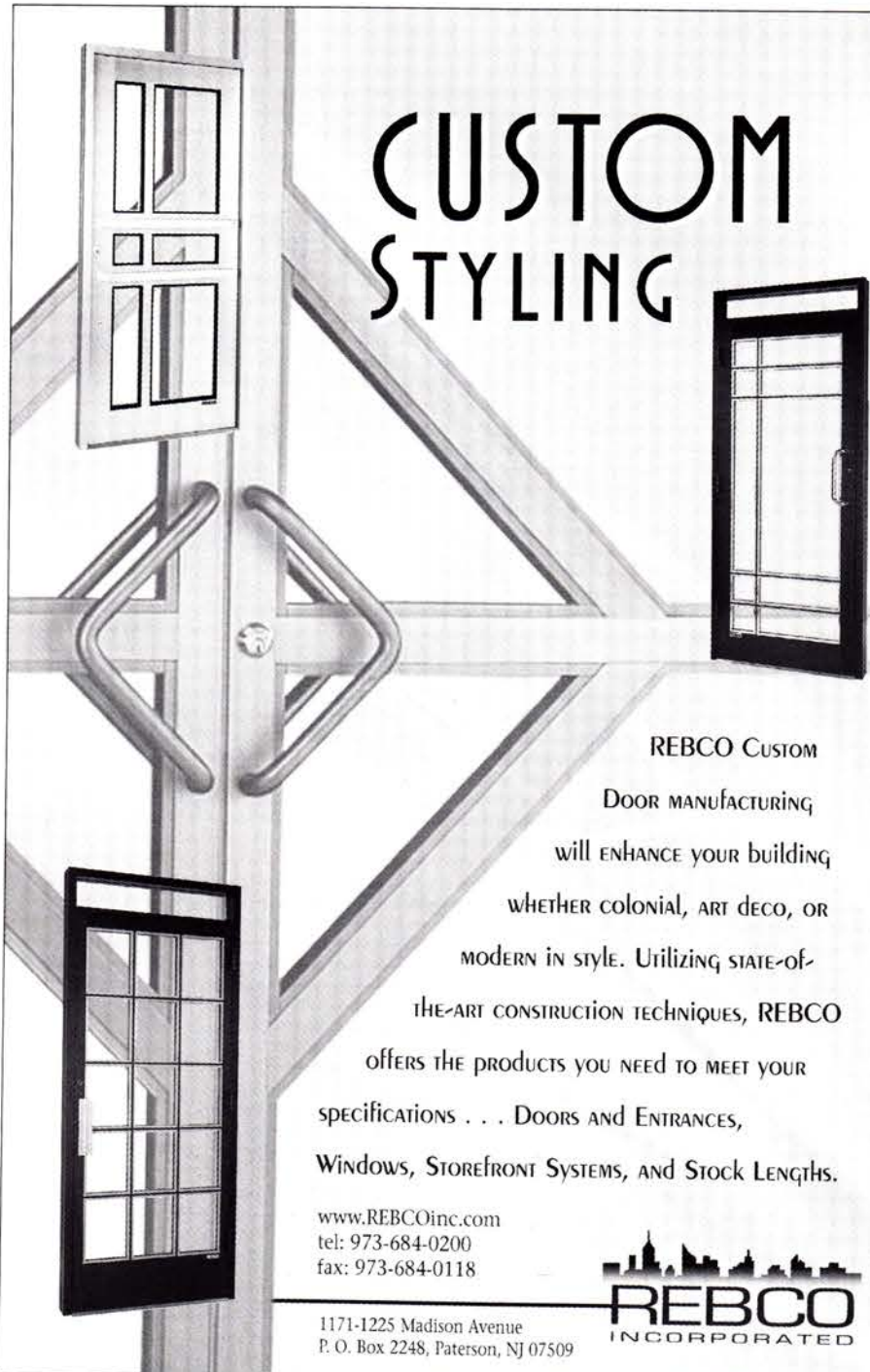
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METAL WINDOWS PORTFOLIO

For full contact information on these companies, consult the SourceList on pp. 165-166.



ROHLF'S STUDIO supplied and installed new Crittall steel casement windows, doors and insulated leaded glass windows for the Waveny Castle in New Canaan, Conn. Write in No. 6240



LOEWEN WINDOWS supplied the metal-clad windows for this professional building in Utah. Write in No. 1415



Metal secondary windows from MON-RAY provide thermal insulation with little visual intrusion for historic buildings. Write in No. 1042



Hot-rolled steel windows are the specialty of CRITTALL WINDOWS LTD. Write in No. 1387

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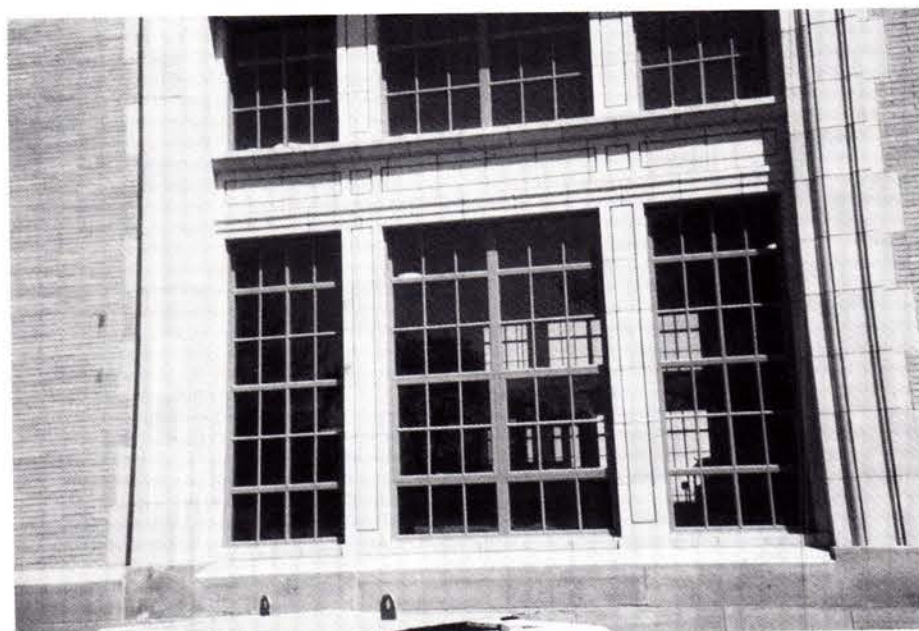
PRODUCT INFORMATION ONLINE



The Virginia Military Institute of Lexington, Va., hired ALLIED WINDOW to design and install Magnetic One-Lite windows with key locks at their bases. Write in No. 690



SEEKIRCHER STEEL WINDOW REPAIR specializes in steel casement-window adjustment and restoration, but has branched out to work on these steel French doors. Write in No. 5590



These aluminum windows were custom fabricated by HERITAGE WINDOW & DOOR and are vandal-resistant. Write in No. 9710

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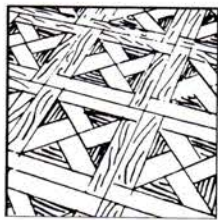
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TRADITIONAL BUILDING WOOD FLOORING SourceList

COMPILED BY MARTHA MCDONALD

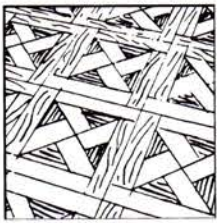
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About the SourceList and Portfolio

To create this SourceList and the Portfolio that accompanies it, the Editors contacted suppliers of Wood Floors from our database of companies that provide historical products and services to our audience of design and building professionals. From the companies' responses, the Editors selected the

suppliers you'll find below because they provide a good up-to-date cross-section of the market, both geographically and in the variety of their offerings. The Portfolio of products and services available from the companies listed here begins on page 174.

COMPANY	SPECIALTY	Literature	Types										Materials						
			Wide Board	Strip	Random Width	Mosaic	Ornamental Borders	Parquet	Antique Wood	New Wood	Other	Chestnut	Bamboo	Maple	Oak	Pine	Heart Pine	Other	
Albany Woodworks 225-567-1155; Fax: 225-567-5150 www.albanywoodworks.com Albany, LA 70711	Manufacturer of heart-pine, NuHeart pine & wide plank hardwood flooring; for nail-down or glue-down installations; 100% usable material; nationwide service; free samples.	Free Write in No. 2870	✓		✓					✓	✓	Stair Parts, Doors, Shutters & Beams			✓	✓	✓	✓	Heart Cypress, Cherry, Hickory & Walnut
Appalachian Lumber, Inc. 800-910-9663; Fax: 336-973-8356 www.summitplank.com Wilkesboro, NC 28697	Supplier of plank flooring & other millwork: 3/4-in. plank hardwood flooring; unfinished & pre-finished; paneling, standard & custom molding, cabinet lumber & stair parts; over 20 species of domestic & imported hardwoods.	Free Write in No. 1176	✓	✓	✓			✓			✓	Hardwood & Landing Tread, Risers, Molding & Starter Steps	✓	✓	✓	✓	✓	✓	Cherry, Ash, Hickory, Locust, Mahogany & Many Others
Appalachian Woods Antique Flooring 800-333-7610; Fax: 540-337-1030 www.appalachianwoods.com Stuarts Draft, VA 24477	Manufacturer of wood flooring: wide board & antique wood; oak, chestnut, heart pine, white pine, hemlock, Douglas fir & other hardwoods; molding, stair parts, beams, paneling, ceiling planks & furniture lumber.	Free Write in No. 323	✓	✓	✓					✓	✓		✓			✓	✓	✓	Cherry, Ash, Walnut & Maple
Architectural Timber & Millwork 800-430-5473; Fax: 413-586-3046 www.atimber.com Hadley, MA 01035	Supplier of antique wood, flooring, timber framing, cupolas, steeples, weathervanes, cornices, columns, arbors & more: restoration & renovation work; antique & reproduction barns & moldings.	Free Write in No. 3290								✓									
AsiaRain Jungle Hardwoods 530-967-2131; Fax: 530-964-2160 www.asiarainhardwoods.com McCloud, CA 96057	Manufacturer & importer of tropical hardwood flooring: wide board, strip, random width, parquet & antique wood; rosewood, narra, chengal, mahogany & other tropical hardwoods; from 100% reclaimed sources.	Free Write in No. 1182	✓	✓	✓			✓	✓										Rosewood, Narra, Chengal, Mahogany & Others
Authentic Pine Floors, Inc. 800-283-6038; Fax: 678-432-3244 www.authenticpinefloors.com Locust Grove, GA 30248	Supplier of Coastal heart pine & Southern yellow pine flooring: wide-plank pine, hand-scraped rustique collection; engineered, site finished & prefinished flooring from newly harvested American plantation-grown trees.	Free	✓		✓					✓	✓						✓	✓	Southern Yellow Pine
Authentic Wood Floors, Inc. 800-765-3966; Fax: 717-428-0464 P.O. Box 153 Glen Rock, PA 17327	Supplier of reclaimed lumber: from barns & warehouses; recycled into flooring, beams, paneling, molding, wainscoting & other products; milled & kiln dried.	Free Write in No. 8000								✓									
Bamboo Fencer 617-524-6137; Fax: 617-524-6100 www.bamboofencer.com Jamaica Plain, MA 02130	Manufacturer of bamboo products made using sustainable groves planted as a tropical-rain-forest reclamation project: fencing, flooring, gates, trellises, arbors, garden accessories & outdoor furniture; stock & custom work.	Free Write in No. 241											✓						
Basic Coatings, Inc. 800-247-5471; Fax: 515-288-0615 www.basiccoatings.com Des Moines, IA 50303	Manufacturer of wood floor coatings & maintenance products for over 25 yrs.: Street Shoe, a commercial wood floor finish designed to protect hardwood flooring from heavy traffic, especially in commercial settings.	Free										Wood Floor Coatings & Maintenance Products							
Bear Creek Lumber 800-597-7191; Fax: 509-997-2040 www.bearcreeklumber.com Winthrop, WA 98862	Manufacturer of flooring, paneling, timbers & decking: Douglas fir, Western red cedar, Alaskan yellow cedar, pine, teak, ipe & hardwoods; kiln dried; clear & select grades; worldwide delivery.	Free Write in No. 521	✓	✓	✓					✓	✓			✓	✓	✓	✓		Cherry, Walnut & Jatoba
Carlisle Restoration Lumber 800-595-9663; Fax: 603-446-3540 www.wideplankflooring.com Stoddard, NH 03464	Manufacturer of traditional wide-plank floors: hand-crafted old growth & antique wide-plank wood floors; Eastern white pine, heart pine, oak, maple, hickory, cherry, birch, walnut, ash & chestnut.	Free Write in No. 5580	✓		✓					✓	✓	Paneling, Hand-Distressed Floors	✓		✓	✓	✓	✓	Cherry, Hickory, Birch & Walnut
Carlson's Barnwood Co. 309-522-5550; Fax: 309-522-5123 www.carlsonsbarnwood.com Cambridge, IL 61238	Supplier of antique barnwood: planks, beams, dimensional lumber, remilled flooring & architectural antiques; pine & oak; complete timber frames & barns.	Free Write in No. 2744	✓		✓					✓	✓	Tongue & Groove Shiplap			✓	✓	✓	✓	Other Species, Antique or New
Chestnut Specialists, Inc. 860-283-4209; Fax: Same as phone www.chestnutspec.com Plymouth, CT 06782	Manufacturer of antique wood for flooring: chestnut, oak, pine & hemlock; hewn barn beams, weathered siding & sheathing planks.	Free Write in No. 8780											✓			✓	✓		Hemlock



TRADITIONAL BUILDING WOOD FLOORING SourceList

COMPILED BY MARTHA MCDONALD

CSI#09550

Company	Specialty	Literature	Types									Materials						
			Wide Board	Strip	Random Width	Mosaic	Ornamental Borders	Parquet	Antique Wood	New Wood	Other	Chestnut	Bamboo	Maple	Oak	Pine	Hear Pine	Other
Chestnut Woodworking & Antique Flooring 860-672-4300; Fax: 860-672-2441 www.chestnutwoodworking.com West Cornwall, CT 06796	Supplier of recycled flooring: timbers, wide board, remilled tongue-&-groove & antique wood; chestnut, oak, white pine, heart pine & hemlock; kiln dried.	Free Call for more information.	✓						✓		Tongue & Groove	✓			✓	✓	✓	Hemlock
Conklin's Authentic Barnwood 570-465-3832; Fax: 570-465-3835 www.conklinsbarnwood.com Susquehanna, PA 18847	Supplier of reclaimed & resawn antique lumber: flooring in white pine, chestnut, heart pine, antique oak & hemlock; weathered barnwood, hand-hewn beams & other antique barn materials.	Free Write in No. 578	✓		✓				✓		Thicker Planking	✓		✓	✓	✓	✓	Hemlock, Elm & Ash
Cordts Flooring Co. 914-737-8201; Fax: Same as phone www.cordtsco.com Peekskill, NY 10566	Supplier of antique wood flooring panels: wide plank & parquet; hand-crafted contoured surface; antique hand-rubbed finishes.	Free Write in No. 322	✓						✓	✓								
Country Road Associates, Ltd. 845-677-6041; Fax: 845-677-6532 www.countryroadassociates.com Millbrook, NY 12545	Supplier of reclaimed wood: wide board & random width; chestnut, hemlock, oak, white pine, heart pine, cherry, elm & walnut; distributor of reclaimed barn siding, hand-hewn beams, paneling & cabinetry.	Free Write in No. 7480	✓		✓					✓		✓		✓	✓	✓	✓	Cherry, Elm, Walnut & Hemlock
Craftsman Lumber Co. 978-448-5621; Fax: 978-448-2754 www.craftsmanlumber.com Groton, MA 01450	Manufacturer of wood flooring: wide-plank & clapboards; new wood & timbers; Eastern white pine, red pine, red oak & other native hardwoods; all drying & milling done on premises.	Free Write in No. 4320	✓		✓					✓	✓	✓		✓	✓	✓	✓	Ash, Cherry, Walnut & Hickory
Duluth Timber Co. 218-727-2145; Fax: 218-727-0393 www.duluthtimber.com Duluth, MN 55816	Supplier of reclaimed wood: flooring, posts, beams, paneling & siding; heart pine, jarrah, white pine, eucalyptus, redwood & cypress; custom millwork.	Free Write in No. 112	✓		✓					✓							✓	Douglas Fir, Aust. Jarrah, Eucalyptus & Mountain Ash
EcoTimber, Inc. 888-801-0855; Fax: 415-258-8455 www.ecotimber.com San Rafael, CA 94901	Supplier of wood flooring from ecologically sound sources: reclaimed/rustic material & wood from forests classified as sustainably-harvested by the Forest Stewardship Council (FSC).	Free Write in No. 1401	✓	✓	✓					✓	✓	Palmwood & Engineered Flooring		✓	✓	✓	✓	Teak, Cherry, Mahogany, Rosewood & Many Others
Goodwin Heart Pine Co. 800-336-3118; Fax: 352-466-0608 www.heartpine.com Micanopy, FL 32667	Manufacturer of antique wood flooring: old-growth heart pine, heart cypress & cherry; 16 grades of wood; stair parts, moldings, paneling & mantels.	Free Write in No. 1330	✓		✓					✓		Millwork & Stairparts					✓	Antique Heart Cypress & Black Cherry
Harvey Millwork, Inc. 410-822-7689; Fax: 410-745-9926 www.harveymillwork.com Bozman, MD 21612	Supplier of custom wood flooring, paneling, molding, trim, mantels & stair parts: longleaf heart pine; green products (GBM); shipping worldwide.	Free Write in No. 3460				✓				✓	✓			✓			✓	Jatoba, White Oak, Red Oak & Walnut
Junckers Hardwood, Inc. 800-878-9663, Fax: 714-777-6436 4920 Landon Dr. Anaheim, CA 92807	Manufacturer of solid prefinished hardwood flooring: 7/8-, 1/2- & 3/4-in. thick; clipped or nailed down; suitable for radiant-heat floors & over concrete.	Free	✓	✓							✓				✓	✓		
K-Grip North America, Inc. 866-70-K-GRIP; Fax: 713-956-4808 www.k-gripamerica.com Houston, TX 77055	Distributor of slip-resistant application for all types of flooring except plastic: custom colors; black, buff, off-white, yellow, grey & glow-in-the-dark luminous.	Free Write in No. 5056									Slip-Resistant Applications for Flooring							
Lignomat USA, Ltd. 800-227-2105; Fax: 503-255-1430 www.lignomat.com Portland, OR 97230	Supplier of moisture-recording instruments: thermohygrometers, dataloggers & other automatic recording devices for monitoring moisture; for wood & soft & hard building materials.	Free Write in No. 1120									Moisture-Recording Instruments							
Longleaf Lumber, LLC 617-625-3659; Fax: 617-625-3615 www.longleaflumber.com Somerville, MA 02143	Manufacturer of antique wood for flooring & beams: wide board, strip & random width; chestnut, antique Eastern white pine, longleaf heart pine reclaimed from old mill buildings, oak, maple & bamboo; custom work.	Free Write in No. 272	✓	✓	✓					✓			✓	✓		✓	✓	
Millwood Specialty Flooring 800-633-5667; Fax: 706-276-3301 P.O. Box F Ellijay, GA 30540	Manufacturer of Appalachian hardwood flooring: widths from 2-1/4 to 5 in.; oak, ash & hickory.	Free		✓	✓	✓										✓		Ash & Hickory
Natural Cork, Ltd. 800-404-2675; Fax: 706-733-8120 www.naturalcork.com Augusta, GA 30909	Manufacturer of natural-cork products: parquet tiles in 12x12- & 12x24-in. sizes; Floating Floor systems; cork floor underlayment rolls & sheets; cork-cleaning products.	Free Write in No. 2868			✓				✓		Floating Floors		✓					Cork



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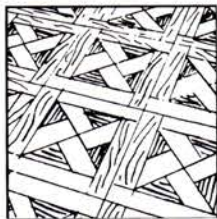
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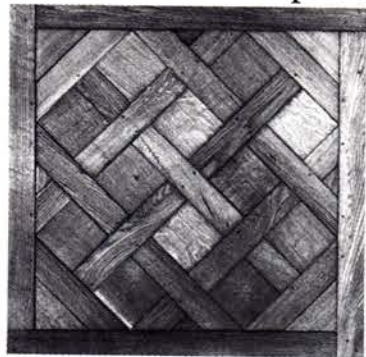
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Company	Specialty	Literature	Types									Materials						
			Wide Board	Strip	Random Width	Mosaic	Ornamental Borders	Parquet	Antique Wood	New Wood	Other	Chestnut	Bamboo	Maple	Oak	Pine	Hear Pine	Other
Osborn, Thomas D., Mosaic Hardwood Floors 413-532-9034; Fax: 413-532-0241 www.thefloorist.net Holyoke, MA 01040	Designer, custom fabricator & installer of mosaic floors: marquetry & inlaid floors; native & exotic hardwoods (all at 3/4-in. thick).	Free Write in No. 4790	✓	✓	✓	✓	✓	✓	✓	✓	Custom Parquet & Inlaid Floors	✓	✓	✓	✓		✓	More Than 80 Species of Native & Exotic Hardwoods
Partee Flooring Mill 870-234-4082; Fax: 870-234-8123 www.parteeflooring.com Magnolia, AR 71754	Supplier of wood flooring: solid tongue-&-groove flooring; red oak, white oak, hickory/pecan & ash; 1-1/2-in., 2-1/4-in. & 3-1/4-in. widths.	Free		✓											✓			Hickory, Pecan & Ash
Pioneer Millworks 800-951-9663; Fax: 585-924-9962 www.pioneermillworks.com Farmington, NY 14425	Supplier of over 50 varieties of reclaimed & sustainably harvested woods: flooring; heart pine, oak, elm, chestnut, hickory, Douglas fir, wide pine planking, barnboards, Australian Jarrah, special wood mixes; custom millwork.	Free Write in No. 6370	✓		✓	✓			✓	✓	Millwork, Stair Parts & Timbers	✓		✓	✓	✓	✓	Jarrah, Fir, Elm, Hickory & Others
Plyboo America, Inc. 315-687-3240; Fax: 315-687-5177 www.plyboo-america.com Kirkville, NY 13082	Importer & distributor of bamboo flooring from the Dutch firm Plyboo.	Free Write in No. 345											✓					
Reliance Specialty Building Products 800-697-4605; Fax: 509-262-0250 www.reliancesbp.com Spokane, WA 99218	Distributor & manufacturer of wide-plank flooring, paneling & siding products: custom cut to specifications; timbers up to 24x30 - 50-ft. long; kiln dry or green; Douglas fir, Western larch, pine, cedar, aspen, West Coast oak, ash & maple.	Free Write in No. 1403	✓	✓										✓	✓	✓		Douglas Fir, Larch & Aspen
Select Millwork Co. 269-349-7841; Fax: 269-349-5190 www.selectmillwork.com Kalamazoo, MI 49009	Manufacturer of interior hardwood trim packages: moldings, doors, staircases, paneling & flooring; veneer & solid wood, all species; matching interior trim.	Free Write in No. 7860		✓	✓						Millwork, Paneling, Staircases							All Species
South County Post & Beam 800-471-8715; Fax: 401-783-4494 www.scpb.net West Kingston, RI 02892	Designer & supplier of timber framing & wood flooring in pine: wide board; nationwide shipping of frame & stress-skin panel enclosure systems.	Free Write in No. 134	✓								Stress-Skin Panel Enclosure Systems						✓	
Sutherland Welles, Ltd. 845-429-6508; Fax: 845-429-5690 www.sutherlandwelles.com Garnerville, NY 10923	Restorer & installer of reclaimed antique wood flooring: line of premium tung-oil products for highest-quality oil finish on historic wood floors.	Free Write in No. 1384	✓	✓	✓		✓	✓	✓	✓	Swedish Method Installation	✓		✓	✓	✓	✓	Antique Spruce & Walnut
Sylvan Brandt LLC Resawn & Antique Floors 717-626-4520; Fax: 717-626-5867 www.sylvanbrandt.com Lititz, PA 17543	Manufacturer of salvaged wood flooring, ceiling boards & paneling: wide board, random width & weatherboard (barn siding); chestnut, oak, pine, heart pine, cypress, walnut, hemlock, fir & hickory.	Free Write in No. 3950	✓		✓				✓		Reclaimed Flooring	✓			✓	✓	✓	Fir, Hemlock, Cypress & Hickory
The Woods Company 888-548-7609; Fax: 717-263-9346 www.thewoodscompany.com Chambersburg, PA 17201	Supplier of wide-plank flooring: wide board & random width; antique & new wood; heart pine, oak, chestnut, white pine, maple, cherry, walnut, hemlock & poplar.	Free Write in No. 5600	✓		✓				✓	✓		✓		✓	✓		✓	Poplar, White Pine, Cherry, Walnut & Hemlock
The Woodshop Of Texas 888-950-9663; Fax: 713-329-9969 www.antiquewoods.net Porter, TX 77365	Supplier of antique lumber: wide-board & random-width flooring; chestnut, maple, oak, heart pine, hickory, fir, submerged cypress & white pine; many wood products in 3 grades: rustic, select & premium.	Free Write in No. 1177	✓	✓	✓				✓	✓		✓	✓	✓	✓		✓	Cypress, Fir, White Pine, Mesquite & Hickory
Waterlox Coatings Corp. 216-641-4877; Fax: 216-641-7213 www.waterlox.com Cleveland, OH 44105	Manufacturer of handmade tung oil/phenolic resin wood finishes: hand-rubbed look using a brush; superior penetration & protection to all wood surfaces; easy to maintain; oil- & water-based urethanes.	Free Write in No. 346									Tung-Oil Based Finishes							

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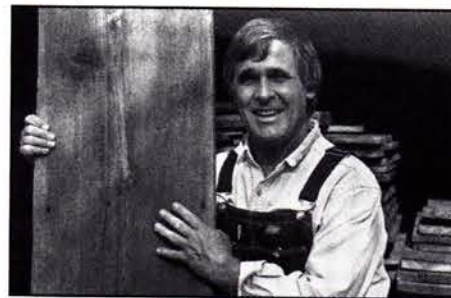
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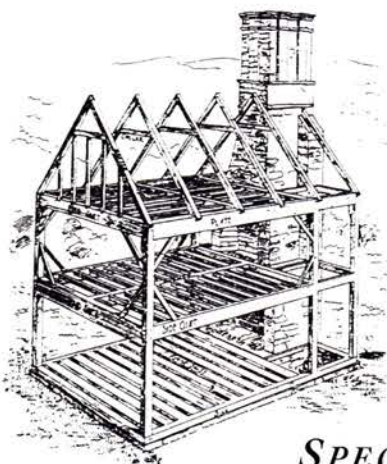
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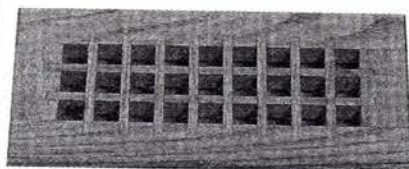
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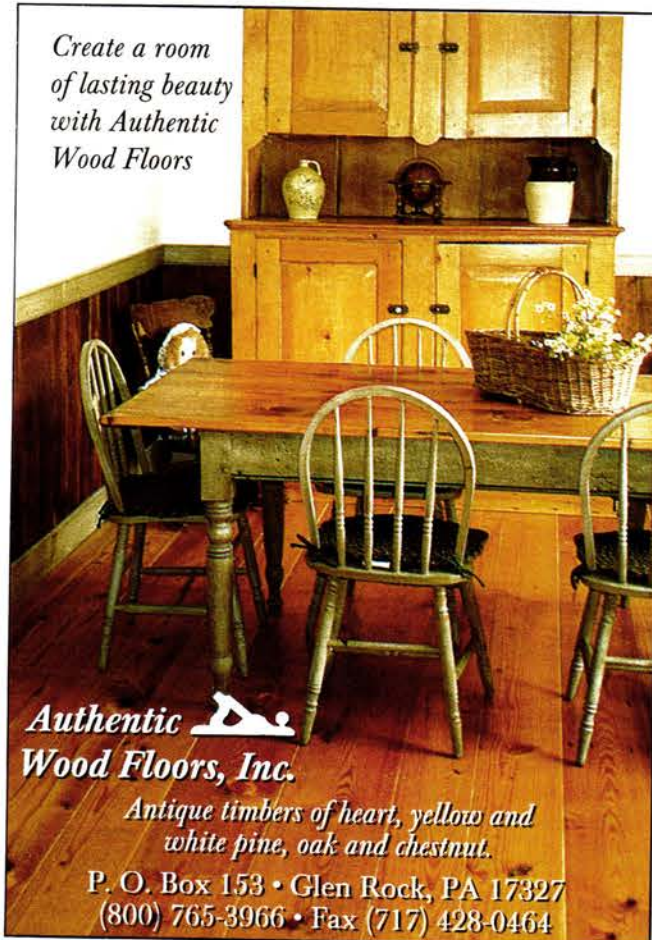
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WOOD FLOORING PORTFOLIO

For full contact information on these companies, consult the SourceList on pp. 169-172.



Bamboo flooring imported by PLYBOO AMERICA was showcased at the Philippine Pavilion at Expo 2000 in Hanover, Germany. Write in No. 545



PIONEER MILLWORKS supplied one of its 50 varieties of reclaimed and sustainably harvested wood flooring for this building in Aspen, Colo.



CARLISLE RESTORATION LUMBER custom crafts wide-plank floors in widths up to 20 in. and lengths up to 16ft. Write in No. 5580



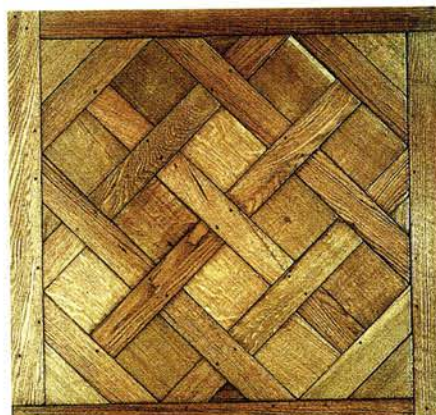
Century-old barnwood from CARLSON'S BARNWOOD is available in hand-hewn or rough-sawn pine and oak. Write in No. 2744



Custom-milled Eastern white pine and red pine from CRAFTSMAN LUMBER are only a few of the many wood species used for flooring and paneling. Write in No. 4520



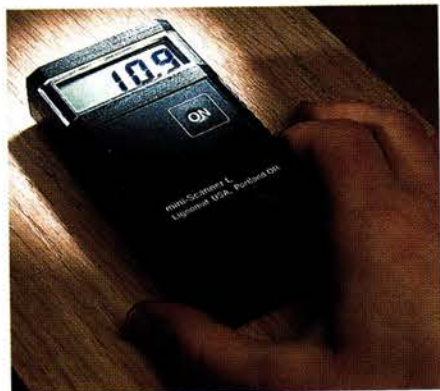
Weather Board Flooring from SYLVAN BRANDT is offered in widths of 5 to 13 in. and lengths of 4 to 16 ft. at 3/4-in. thick. Write in No. 3950



The Versailles pattern is one of the many antique wood-flooring options available from CORDTS FLOORING. Write in No. 522



This elegant flooring from GOODWIN HEART PINE is made of reclaimed wood.



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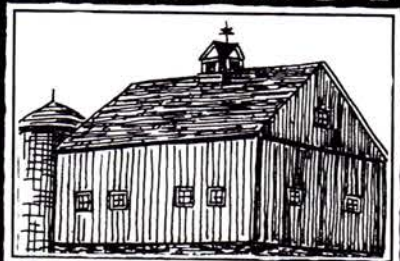
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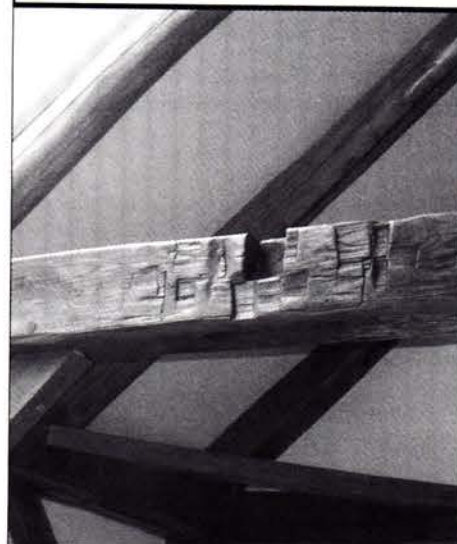
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WOOD FLOORING PORTFOLIO

For full contact information on these companies, consult the SourceList on pp. 169-172.



This hickory floor from CONKLIN'S AUTHENTIC BARNWOOD was combined with tile to create a basket-weave look.



Wide pine flooring from SOUTH COUNTRY POST & BEAM is kiln-dried, joined straight, and ripped parallel. *Write in No. 134*



The wood for this wide-plank floor and coffee table was supplied by COUNTRY ROAD ASSOCIATES. *Write in No. 7480*



This room's flooring and paneling from HARVEY MILLWORK is antique heart pine. *Write in No. 5460*



AUTHENTIC PINE FLOORS supplies kiln-dried Southern heart pine and Southern yellow pine flooring up to 12-in. wide.



CHESTNUT SPECIALISTS' Doc Wasley displays a few of the wide antique boards which his firm offers in chestnut, oak, and pine. *Write in No. 8780*



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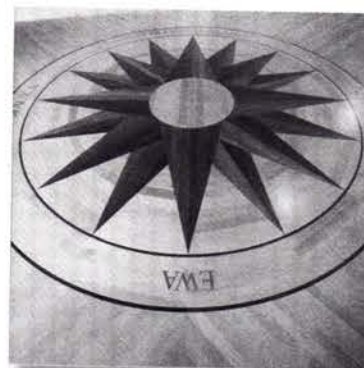
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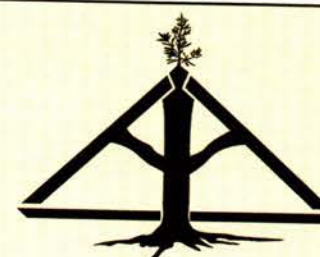
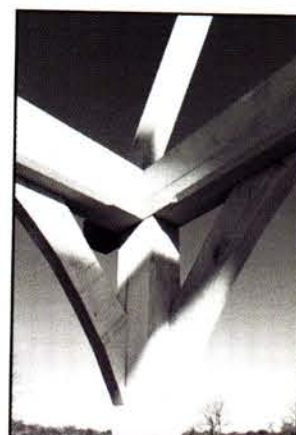
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TRADITIONAL BUILDING
FIREPLACE TILE SourceList

COMPILED BY MARTHA MCDONALD

CSI#10310

About the SourceList and Portfolio

To create this SourceList and the Portfolio that accompanies it, the Editors contacted suppliers of Fireplace Tile from our database of companies that provide historical products and services to our audience of design and building professionals. From the companies' responses, the Editors selected the

suppliers you'll find below because they provide a good up-to-date cross-section of the market, both geographically and in the variety of their offerings. The Portfolio of products and services available from the companies listed here begins on page 180.

COMPANY	SPECIALTY	Literature	Types								Materials						
			Encaustics	Embossed/Relief	Silk-screened	Lithographed	Hand-Painted	Geometric Mosaics	Glazed	Unglazed	Other	Victorian	Arts & Crafts	Spanish/Moorish	Other		
Alchemie Studios 760-942-6051; Fax: Same as phone 1550 Gascony Rd. Leucadia, CA 92024	Ceramic studio: relief tile, fireplace tile; fountains & architectural ceramics; stock & custom; Arts & Crafts & traditional styles; by appointment.	Free Write in No. 1324		✓						✓			✓		Traditional & Custom Designs		
American Restoration Tile, Inc. 501-570-0300; Fax: 501-570-0303 www.restorationtile.com Mabelvale, AR 72103	Manufacturer of fireplace, flooring, kitchen & bath tile & custom mosaics: restoration & new construction; custom matching of glazed & unglazed tile.	Free Write in No. 8032								✓	✓						
Classic Ceramic Tile Inc. 800-394-7770; Fax: 732-238-2904 www.classicceramictile.com East Brunswick, NJ 08816	Supplier of rustic ceramic-tile floors: natural-stone tones & weathered appearance.	Free Write in No. 1420															
Colson Studio 888-211-3740; Fax: 941-366-2662 www.colsonart.com/archarts.htm Sarasota, FL 34239	Craftsman: sculpture casting & handmade relief tiles in fired clay or bronze; custom designs & installation of exterior or interior works for site-specific needs.	Free Write in No. 471		✓				✓		✓	✓	Handmade Large Relief Tiles in Fired Clay or Bronze		✓			
Designs in Tile 530-926-2629; Fax: 530-926-6467 www.designsintile.com Mount Shasta, CA 96067	Custom fabricator of historically styled tile: coordinating patterns in Victorian, English & American Arts & Crafts styles; Victorian transfer tiles in Anglo-Japanese, Gothic Revival & Neo-Grec styles; Wm. Morris/DeMorgan; Majolica tiles (2x6 & 1-1/4x6 in.).	Free Write in No. 250	✓	✓	✓	✓	✓	✓	✓	✓	✓	Victorian Transfer Tiles, Majolica, Cut-Tile Geometrics & Cuerda Seca	✓	✓	✓	Art Nouveau & Art Deco, Custom Designs	
EPRO, Inc. 614-882-6990; Fax: 614-882-4210 www.eprotile.com Westerville, OH 43081	Manufacturer of pavers & ceramic tile: hand-crafted tile in several color ranges; for walls, floors, counters, fireplaces & other applications; interior & exterior; border tiles; seasonal themes.	Free		✓				✓	✓	✓	✓			✓		Rural American	
Feature Tile 831-475-4602; Fax: Same as phone www.featuretile.com Soquel, CA 95073	Art tile studio: handmade decorative tile, murals & liners; traditional, nature & ethnic themes; custom services.	Free		✓				✓	✓	✓				✓	✓	✓	Nature & Traditional
Fishman Mosaics 305-758-1141; Fax: Same as phone www.georgefishmanmosaics.com Miami Shores, FL 33138	Designer of mosaics: traditional glass smalti & stone; pictorial mosaics in the Classical manner; religious projects; custom mosaic artwork for fireplaces.	Free Write in No. 183										Pictorial Mosaics				Period & Contemporary Styles	
London Tile Co. 419-929-1551; No Fax www.londontile.com New London, OH 44851	Manufacturer of handmade clay tiles: residential & commercial applications; wall, floor, fireplace, counter-top & non-skid tile; custom tile work.	Free Write in No. 500								✓	✓			✓			
M.E. Tile Co. 219-554-1877; Fax: 219-554-1880 www.metile.com Hammond, IN 46320	Manufacturer of 600 raised-relief & silk-screened tiles: 150 color-finishes; ceramic & glass murals; for bathrooms, kitchens, foyers, fireplace surrounds, door frames & garden rooms; special edges; custom designs.	Free Write in No. 24			✓	✓	✓	✓		✓	✓			✓	✓		Traditional, Custom & Reproduction
Malibu Ceramic Works 310-455-2485; Fax: 310-455-4385 P.O. Box 1406 Topanga, CA 90290	Custom fabricator of historical & decorative tile inspired by California architecture of the 1920s & 30s: fireplace, wall, fountain & other tiles; companion field tile & trim; interior & exterior; traditional & contemporary colors.	Free Write in No. 133															
Minton Hollins 732-528-2248; Fax: 732-528-2249 www.johnson-tiles.com Brielle, NJ 08730	English manufacturer of reproduction Victorian wall & fireplace tiles & moldings.	Free Write in No. 1053												✓			
Native Tile and Ceramics 310-533-8684; Fax: 310-533-8453 www.nativetile.com Torrance, CA 90501	Manufacturer of decorative tile: floor inserts, trim, fireplace fronts, murals & tile rugs; Mission, Craftsman & Deco styles; inspired by Batchelder, Malibu & Catalina tile companies; custom designs & glazes; handmade.	Free Write in No. 570									✓				✓	✓	
North Prairie Tileworks 612-871-3421; Fax: 612-871-2923 www.handmadetile.com Minneapolis, MN 55408	Manufacturer of custom tile: mosaics, floor, fireplace, kitchen & bath tile; many colors, shapes & sizes; hand painted & hand cut; custom color matching & reproductions of antique tiles.	Free Write in No. 793			✓	✓		✓	✓	✓	✓			✓	✓	✓	
Original Features, Ltd. 0208-348-8180; Fax: 0208-341-4744 www.originalfeatures.co.uk London, England N8 9BT	Distributor of geometric & encaustic tiles: new tiles & repairs for floors; fireplace tile & fireplaces.	Free		✓					✓					✓	✓		
Pewabic Pottery 313-822-0954; Fax: 313-822-6266 www.pewabic.com Detroit, MI 48214	Designer & custom fabricator of decorative tile: flooring, fireplaces, fountains & murals; Arts & Crafts-style glazes & contemporary glaze palette; full in-house design services.	Free Write in No. 2682								✓					✓		
Ruth Frances Greenberg Ceramics 503-235-2882; Fax: 503-235-2883 2816 SE 41st Ave. Portland, OR 97202	Custom designer & fabricator of decorative firebox tile: interior & exterior applications.	Free								✓	✓	Fire-Proof Firebox Tile				Custom Designs	
Tile Source, Inc. 770-993-6602; Fax: 770-993-0124 203 Mill Pond Rd. Roswell, GA 30076	Supplier of decorative tile: flooring, murals & kitchen tile; true-encaustic tile & silk-screened simulations; Victorian.	Free Write in No. 2846		✓		✓								✓			

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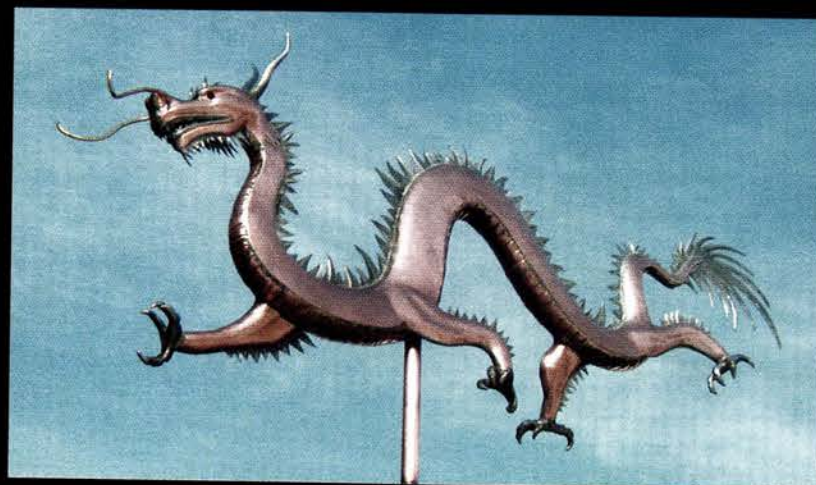
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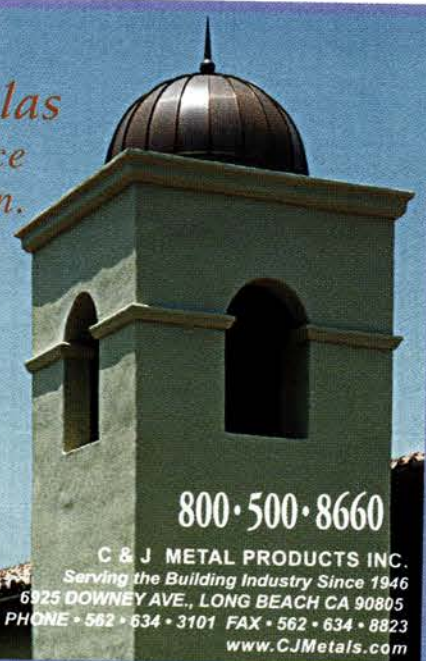
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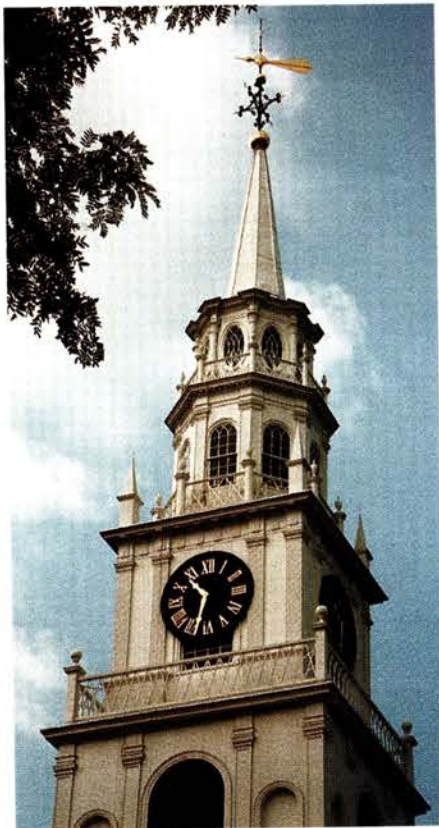
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WEATHERVANES, FINIALS & CRESTING PORTFOLIO

For full contact information on these companies, consult the SourceList on pp. 181-182.



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ARCHITECTURAL TIMBER & MILLWORK restored this building's steeple and weather vane. Write in No. 5290



This eagle weather vane was fabricated by **EDER FLAGPOLE**. Write in No. 4290



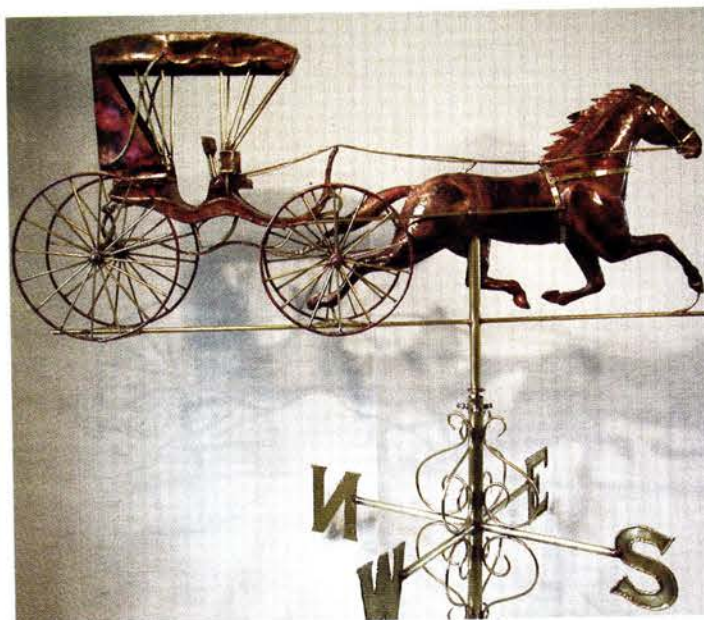
LYNCH & SONS custom manufactures stainless-steel weather vanes in the style and size of your choice. Call 205-762-8565 for more information.



The Humpback Mother & Baby weather vane from **IVES WEATHERVANES** measures 30in. long. Write in No. 9660



WIEMANN IRONWORKS custom designed and manufactured this repousse winged-dragon weather vane. Write in No. 1225



This 4-1/2-ft. long custom horse-and-carriage copper weather vane was hand crafted by Anthony Holand of **TUCK & HOLAND METAL SCULPTURES** in the firm's Martha's Vineyard studio. Write in No. 5940



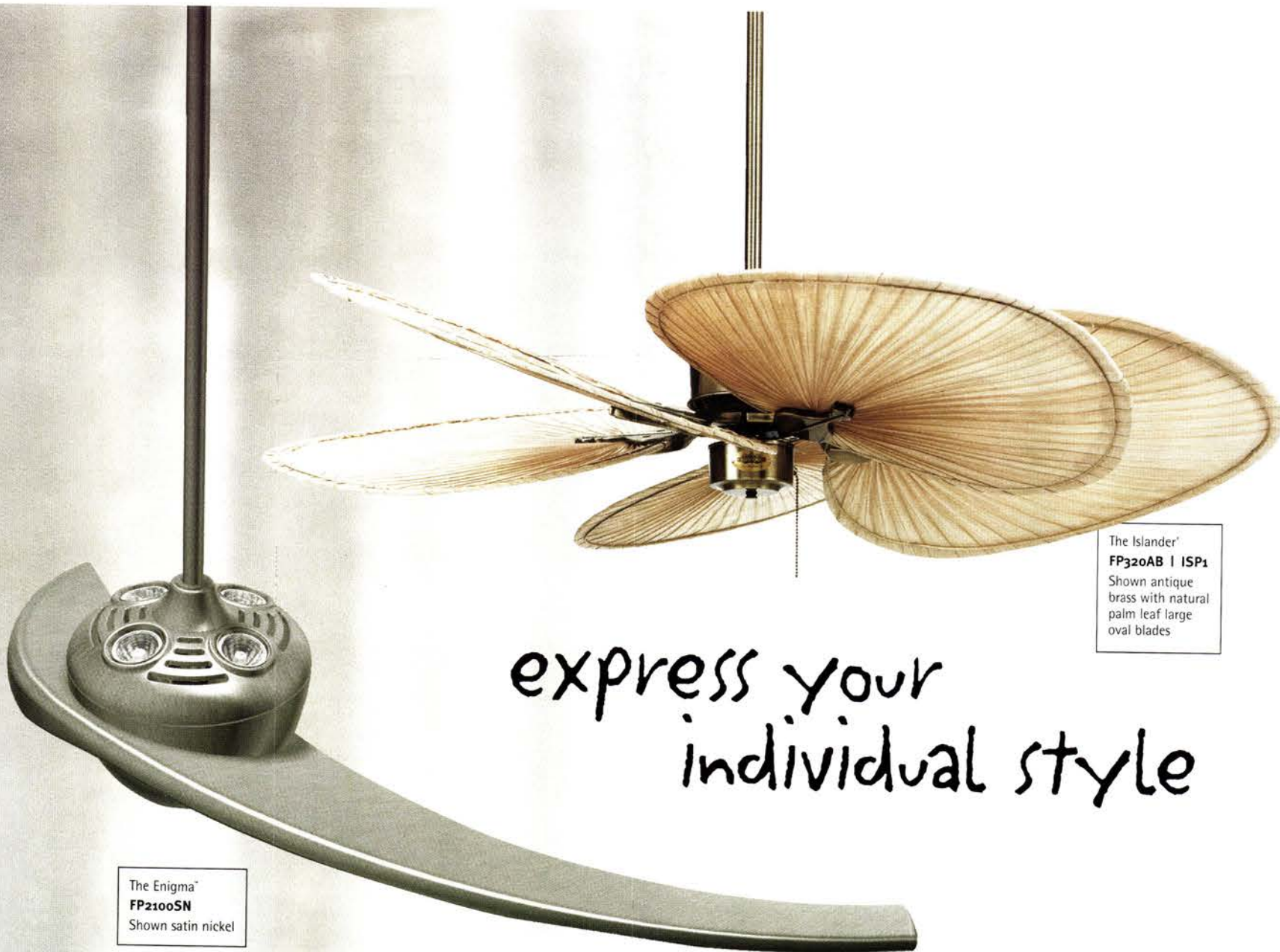
FLORENTINE CRAFTSMEN designed this whimsical hand-finished sailboat weather vane. Call 800-876-5567 for more information.



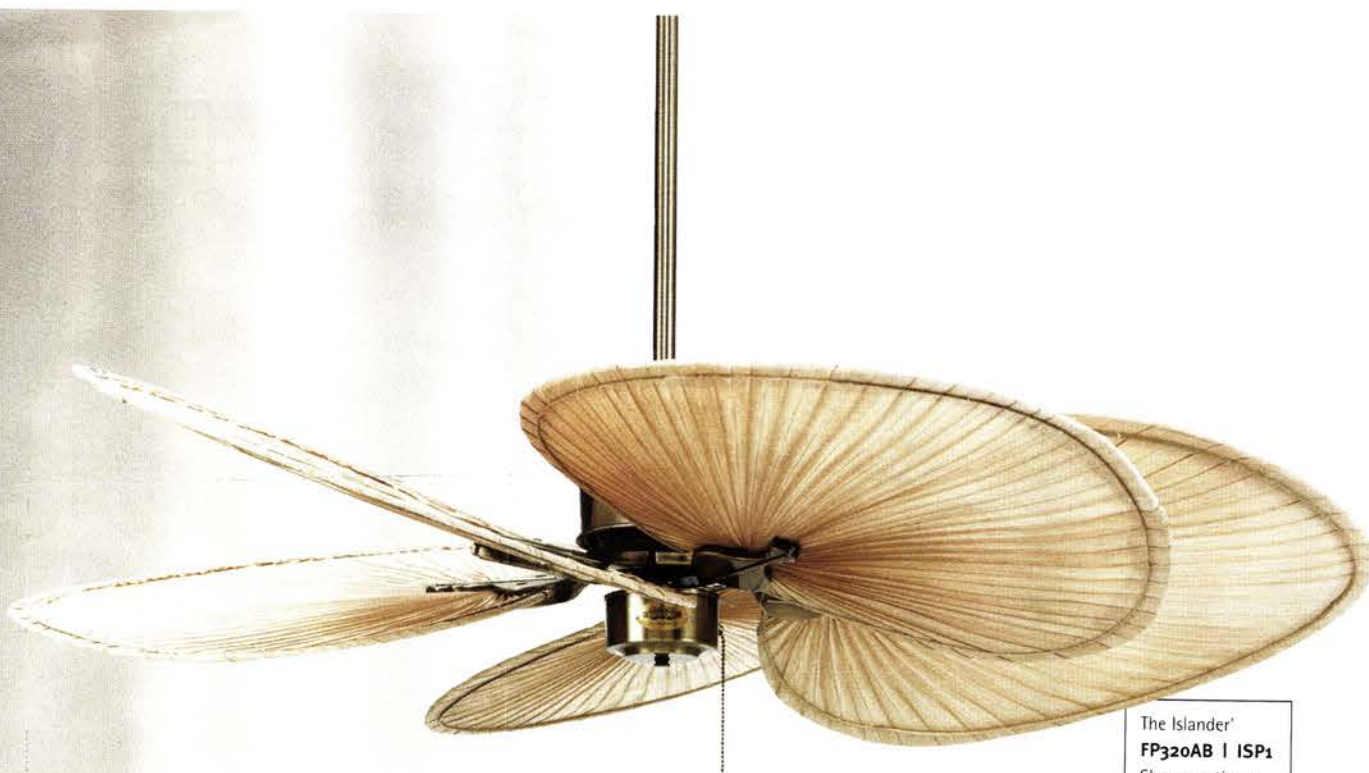
This copper cupola with weather vane from **NIKO CONTRACTING** measures x24in. at the base. Write in No. 8500



Standard weather vanes and cupolas from **NEW CONCEPT LOUVERS** include the Estate, a hexagonal base under a hip roof on top of which stands a classic weather vane. Write in No. 1264

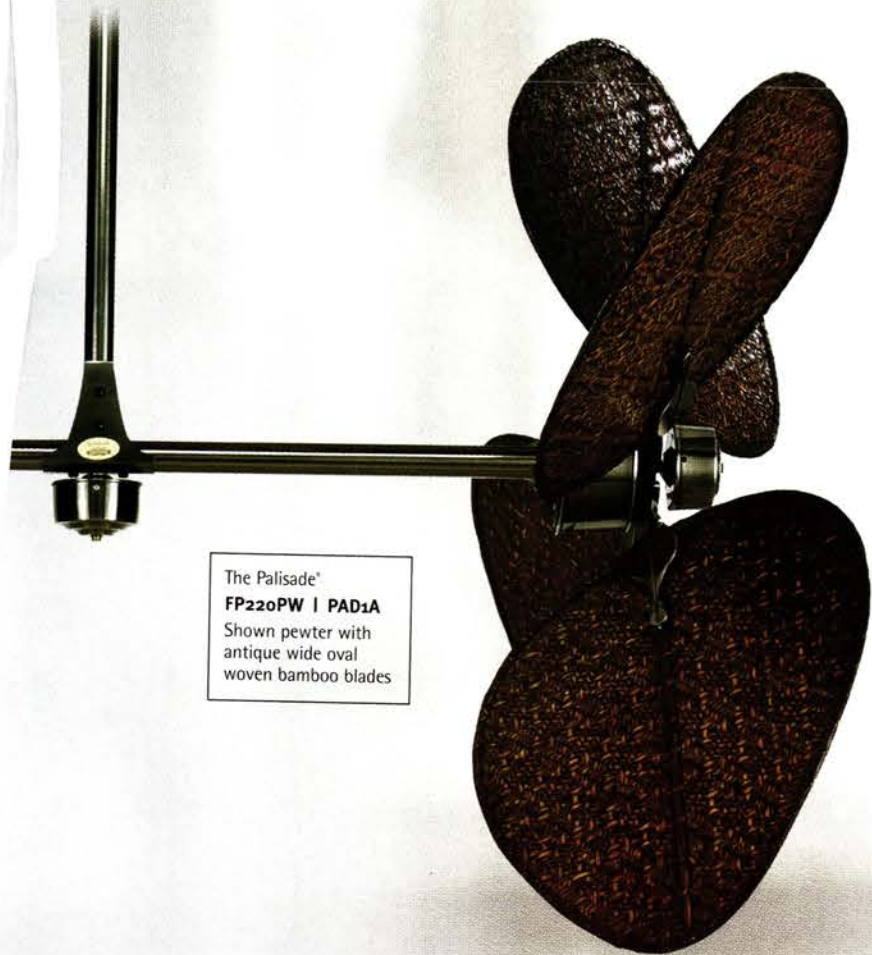


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TRADITIONAL BUILDING SourceList INTERIOR LIGHTING

COMPILED BY MARTHA MCDONALD

CSI#16510

COMPANY	SPECIALTY	Literature	Styles						Types						Antique Originals	New Designs	Historic Reproductions	Custom	Restoration services	% Custom
			Early American	Victorian	Turn of the Century	Art Nouveau	Arts & Crafts/Mission/Prairie	Other	Chandeliers	Sconces	Pendants	Lanterns	Table Lamps	Other						
Cirecast 415-822-3030; Fax: 415-822-3004 www.cirecast.com San Francisco, CA 94124	Manufacturer of historic builders hardware & ornamental castings: railings, lighting, grilles & more; hardware for shutters & pocket doors in brass; replication & refurbishment.	Free Write in No. 2280		✓	✓				✓	✓		✓					✓	✓	Y	70%
Classic Illumination, Inc. 510-849-1842; Fax: 510-849-2328 www.classicillumination.com Berkeley, CA 94710	Supplier of lighting products: Neo Classical, Victorian, Turn of the Century, Art Nouveau, Art Deco & contemporary designs; chandeliers, torchieres, sconces, lamps & pendants; historic reproductions; hotels & restaurants.	Free Write in No. 5970		✓	✓	✓		Art Deco	✓	✓	✓						✓	✓	Y	75%
Copper House, The 800-281-9798; Fax: 603-736-4921 www.thecopperhouse.com Epsom, NH 03234	Supplier of hand-crafted metalwork: weathervanes, cupolas, lanterns & garden lighting; brass & copper; standard models & custom work; no imports; retail & wholesale.	Catalog: \$4.00 Call for more information.	✓	✓	✓		✓		✓	✓	✓	✓					✓	✓	N	10%
Coppersmythe, Josiah R. 508-432-8590; Fax: 508-432-8587 www.jrcoppersmythe.com Harwich, MA 02645	Supplier of Colonial-style lighting fixtures: sconces, chandeliers & hanging & wall-mount lanterns; copper, brass, pewter, tin & wood; historic reproductions; hand crafted.	Free Call for more information.	✓				✓	Orion Lights & Nautical Themes	✓	✓	✓	✓	✓				✓	✓	N	50%
Corbett Lighting, Inc. 800-CORBETT; Fax: 800-351-6628 www.corbettlighting.com Carrollton, TX 75007	Manufacturer & importer of lighting products: indoors & exterior applications; portable lighting; original & custom designs.	Free	✓		✓	✓	✓	Art Deco, Southwestern/Rustic & Custom	✓	✓	✓	✓	✓	Exterior & Bath		✓		✓	N	30%
Craft Metal Products, Inc. 800-669-3254; Fax: 317-545-3288 www.craftmetal.com Indianapolis, IN 46218	Designer of institutional lighting: chandeliers, sconces, pendants & lanterns; custom lighting; restoration services.	Free Write in No. 1021	✓				✓	Art Deco, Rustic, Gothic & Romanesque	✓	✓	✓	✓				✓		✓	Y	70%
Craftsmen Lighting Co. 660-376-2481; Fax: 660-376-4076 www.craftsmenhardware.com Marceline, MO 64658	Supplier of Arts & Crafts-style lighting & hardware: door, window, cabinet & drapery hardware; hand-hammered copper, brass & bronze; custom.	Free Write in No. 368					✓		✓	✓	✓					✓			N	50%
Crenshaw Lighting 540-745-3900; Fax: 540-745-3911 www.crenshawlighting.com Floyd, VA 24091	Manufacturer of decorative lighting fixtures: period & custom designs; historic restoration & reproduction.	Free Write in No. 313	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	Torchieres		✓	✓	✓	Y	80%
Custom Metalcraft Inc./Perry Pratt Lighting 617-242-0868; Fax: 617-242-3994 www.perryprattlighting.com Charlestown, MA 02129	Manufacturer of metal lighting fixtures: sconces, lanterns, chandeliers, pendants & more; bronze, brass, steel & more; restoration services.	Free Write in No. 354			✓			Art Deco & Period Reproductions	✓	✓	✓	✓	✓		✓	✓	✓	✓	Y	80%
Custom Service Hardware, Inc. 414-375-7960; Fax: 414-375-7970 www.cshardware.com Cedarburg, WI 53012	Supplier of accent lighting, wood treatments & hardware: lighting concealed under cabinets & shelving; low voltage & line voltage; distributes Mylands waxes from Europe; kitchen & bath hardware.	Free												Accent Lighting				✓	N	15%
Dahlhaus Lighting, Inc. 718-599-5413; Fax: Same as phone www.dahlhaus-lighting.com Brooklyn, NY 11211	Manufacturer of vintage lighting: for residential, commercial & civic sites; street lamps & lanterns, bollards, fountains, ornament & mailboxes that once graced Europe's cities, towns & estates.	Free Write in No. 2767	✓	✓	✓				✓	✓	✓	✓					✓	✓	N	10%
Deep Landing Workshop 877-778-4042; Fax: 410-778-4070 www.deeplandingworkshop.com Chestertown, MD 21620	Manufacturer of Early American lighting fixtures: chandeliers, sconces, pendants & lanterns; new designs, historic reproductions & custom lighting; hand crafted in wood, tin, brass or copper with glass, mica or alabaster shades.	Free Write in No. 809	✓						✓	✓	✓	✓				✓	✓		N	70%
Deggings' Foundry 785-232-4788; Fax: 785-232-4972 www.deggings.com Topeka, KS 66603	Manufacturer & restorer of specialty metalwork: railings, lighting, hardware, sculpture, signage, plaques, gates, registers, grilles, furniture & more; wrought iron/steel, stainless, aluminum, bronze, brass, copper & cast iron.	Free Write in No. 8015							✓	✓	✓	✓				✓	✓		N	100%
Derek Marshall Lighting 800-497-3891; Fax: 603-284-6237 www.derekmarshall.com Sandwich, NH 03227	Manufacturer of lighting: Art Nouveau, Art Deco, Arts & Crafts, traditional, transitional & contemporary; sculptural sconces, table lamps & pendants; new designs & custom lighting & finishes.	Free					✓	Art Deco			✓	✓	✓			✓			N	20%
Distinguished Home Lighting, Ltd. 718-261-6090; Fax: 718-261-6190 110-64 Queens Blvd. Flushing, NY 11375	Supplier of traditional lighting: European, Colonial & Art Deco; lanterns, sconces & chandeliers; gas & electric applications.	Free Write in No. 1195						Art Deco	✓	✓	✓					✓	✓		N	20%

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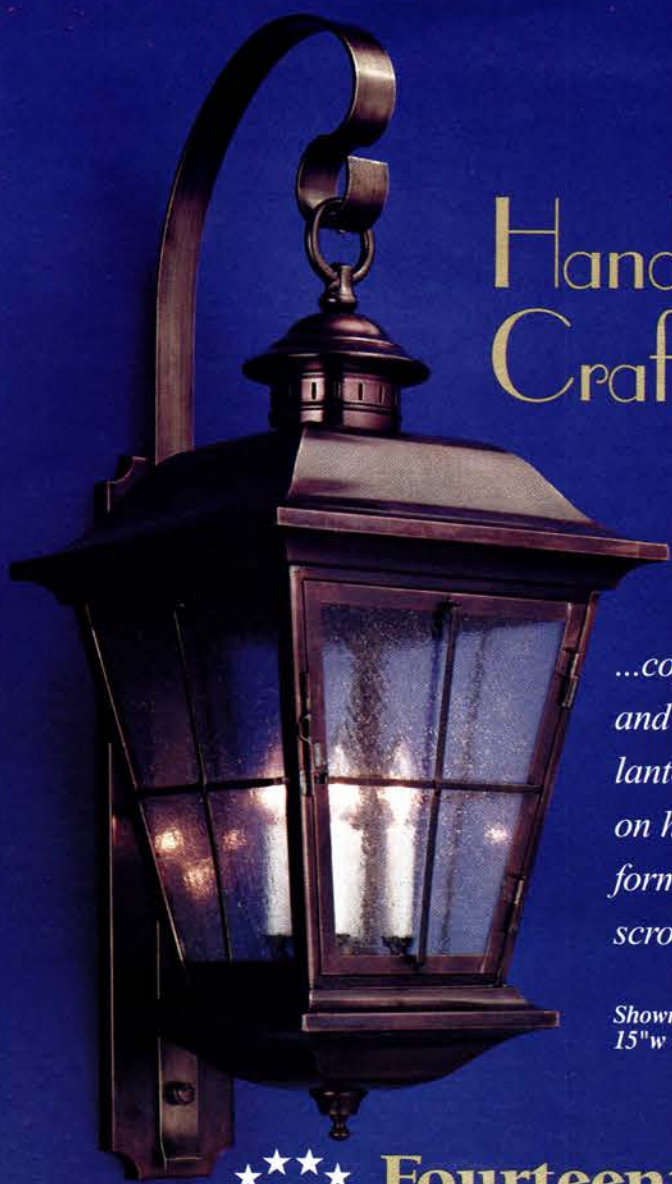


TRADITIONAL BUILDING SourceList INTERIOR LIGHTING

COMPILED BY MARTHA MCDONALD

CSI#16510

COMPANY	SPECIALTY	Literature	Styles						Types						Antique Originals	New Designs	Historic Reproductions	Custom	Restoration services	% Custom
			Early American	Victorian	Turn of the Century	Art Nouveau	Arts & Crafts/Mission/Prairie	Other	Chandeliers	Sconces	Pendants	Lanterns	Table Lamps	Other						
Johnson Art Studio 800-203-1663; Fax: 831-464-1325 www.johnsonartstudio.com Santa Cruz, CA 90069	Manufacturer of interior & exterior lighting fixtures: contemporary, Craftsman & other styles; fluorescent, incandescent, ADA & wet location designs; extensive glass & metal variations; hand-crafted & made to order.	Free						Craftsman & Custom	✓	✓	✓	✓	✓			✓		✓	N	10%
Johnson Pattern & Machine Works 815-433-2775; Fax: 815-433-1121 www.johnsonpattern.com Ottawa, IL 61350	Custom fabricator of ornamental metalwork: gates, railings, lighting, registers, grilles & cast-metal ornament; iron/steel, bronze & aluminum; custom work, restoration & repair.	Free Write in No. 1161	✓						✓	✓	✓	✓				✓		✓	Y	100%
Justice Design Group 800-533-4799; Fax: 800-533-2911 www.jdg.com Los Angeles, CA 90012	Importer & manufacturer of hand-crafted ceramic decorative lighting fixtures: interior sconces & pendants; 200 shapes; bisque finish or custom glazes, faux patinas & antique finishes; interior & exterior.	Free	✓				✓	Art Deco, Southwestern/Rustic, Contemporary & Transitional		✓	✓		✓	Flush Mounts & Semi-Flush Mounts		✓	✓	✓	N	70%
Lampworks, Inc. 888-LAMPWORKS; Fax: 212-750-1671 www.lampworksinc.com New York, NY 10022	Supplier of antique & new lighting & lamp shades: Early American, Victorian, Turn of the Century, Art Nouveau, Art Deco & more; chandeliers, sconces, pendants, lanterns & floor & table lamps; historic reproduction & custom lighting.	Free	✓	✓	✓	✓	✓	Art Deco, Antique Reproduction & Contemporary	✓	✓	✓	✓	✓	Floor Lamps, Torchieres, Surface & Semi-Flush Mounts	✓	✓	✓	✓	Y	50%
Lantern Masters, Inc. 818-706-1990; Fax: 818-706-1988 www.lanternmasters.com Westlake Village, CA 91362	Custom fabricator of interior & exterior lighting: chandeliers, flush-mount ceiling lights, floor lamps, lanterns, pendants, sconces, lamp posts & more; historic reproductions & restoration; traditional, Tudor, French, Asian & more.	Free Write in No. 1239	✓	✓	✓	✓	✓	Tudor, French, Asian & Tuscan Antique Reproduction	✓	✓	✓	✓		Post Lights & Pilaster Lights		✓	✓	✓	Y	100%
Larry Etzen Studio 816-523-3978; Fax: 816-333-2958 P.O. Box 22341 Kansas City, MO 64113	Custom fabricator of stained-glass domed ceilings & large art-glass light fixtures.	Free Write in No. 1267		✓		✓	✓	Art Deco			✓			Art Glass, Domed or Flat, Backlit Ceilings		✓	✓	✓	N	100%
Lehman's Hardware 330-857-5757; Fax: 330-857-5785 www.lehmans.com Kidron, OH 44636	Supplier of historic household items: pre-electric lighting; wood, gas & electric cookstoves; fireplaces, authentic old-fashioned appliances & more.	Catalog: \$3.00	✓	✓	✓	✓		Art Deco				✓	✓	Non-Electric Period Oil Lamps	✓	✓	✓	✓	N	20%
Liberty Brass Turning Co. 718-784-2911; Fax: 718-784-2038 www.libertybrass.com Long Island City, NY 11101	Manufacturer of metal components: drawer pulls, window hardware, lamp finials, couplings, turned bar stock knobs, spacers, balls, check rings, furniture & display fittings; brass, aluminum & stainless; custom parts; church projects.	Free Write in No. 8440	✓	✓	✓	✓	✓	Art Deco & Southwestern/Rustic	✓	✓	✓	✓	✓		✓	✓	✓	✓	N	50%
Luminaria Lighting, Inc. 800-638-5619; Fax: 509-456-8298 www.luminaria.com Spokane, WA 99201	Restorer of antique light fixtures: late 19th-century to 1940s styles; manufacturer of original reproduction fixtures; custom fabrication; all available online.	Free Write in No. 336	✓	✓	✓	✓	✓	Art Deco	✓	✓	✓	✓	✓		✓	✓	✓	✓	Y	75%
Metomic Corp. 800-847-8342; Fax: 773-247-2563 2944 W. 26th St. Chicago, IL 60623	Supplier of brass & aluminum components: lamp & lighting parts; finials & check rings; sockets, cords, hardware & more; stock & custom.	Free	✓	✓	✓	✓	✓	Art Deco	✓	✓	✓	✓	✓	Lamp & Lighting Parts	✓	✓	✓	✓	N	70%
Mills Architectural Lighting 905-643-1066; Fax: 905-643-6667 www.millsighting.com Stoney Creek, ON, Canada L8E5L6	Supplier of interior & exterior lighting; specializes in lighting for houses of worship; restoration of historic lighting fixtures for public buildings; international projects.	Free Write in No. 1416		✓	✓		✓			✓	✓	✓				✓		✓	Y	90%
Olde Mill Lighting, Ltd. 717-299-2512; Fax: 717-299-5822 www.oldemillighting.com Lancaster, PA 17602	Supplier of Early American & country lighting fixtures: chandeliers, foyer & hall lights, sconces & outdoor post & wall lamps; aged tin, brass & copper; historic reproductions; hand crafted.	Free Write in No. 2664	✓						✓	✓	✓	✓				✓	✓			10%
Pam Morris Exciting Lighting 415-925-0840; Fax: 415-925-1305 14 E. Sir Francis Drake, #D Larkspur, CA 94939	Manufacturer of pendants & sconces: formed & cast metal with blown, slumped & cast glass.	Free Write in No. 1402						Neo Classic & Custom		✓	✓					✓		✓	Y	90%
Pecaso Lighting, Inc. 718-599-4579; Fax: 718-963-2868 395 Wythe Ave. Brooklyn, NY 11211	Supplier of traditional European-style lighting: chandeliers with dense crystal patterns, sconces, pendants & other fixtures; new & custom designs & historic reproductions.	Free		✓	✓		✓		✓	✓	✓					✓	✓		N	32%



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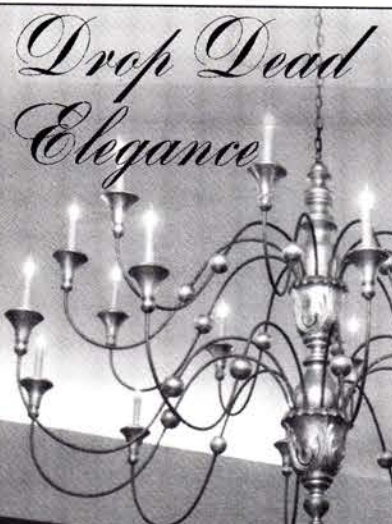
TRADITIONAL BUILDING SourceList INTERIOR LIGHTING

COMPILED BY MARTHA MCDONALD

CSI#16510

Company	Specialty	Literature	Styles						Types						Antique Originals	New Designs	Historic Reproductions	Custom	Restoration services	% Custom
			Early American	Victorian	Turn of the Century	Art Nouveau	Arts & Crafts/Mission/Prairie	Other	Chandeliers	Sconces	Pendants	Lanterns	Table Lamps	Other						
Penrose 716-941-0322; Fax: Same as phone home.att.net/~penrose Boston, NY 14025	Custom designer & fabricator of lighting: Western, nature, nautical & whimsical themes; fretwork using wood, copper, steel, mica, glass & more; caters to contract designers & architects; hospitality & domestic lighting; any size.	Free					✓	Southwestern/Rustic & Custom	✓	✓	✓	✓	✓	Floor Lamps & Perimeter Lighting		✓		✓	Y	100%
Pettigrew Associates, Inc. 214-745-1351; Fax: 214-748-7071 1715 Market Cntr. Blvd. Dallas, TX 75207	Manufacturer & supplier of 18th- & 19th-century European-style lighting fixtures: chandeliers, sconces, pendants & lanterns; metal & wood; custom lighting installation.	Free Write in No. 1186		✓	✓			Venetian	✓	✓	✓	✓			✓	✓	✓	✓	Y	90%
Price Glover, Inc. 212-772-1962; Fax: On request www.pricegloverinc.com New York, NY 10021	Custom fabricator of 18th- & early-19th-century English lighting fixtures: fixtures for use with candles; choice of finishes/plating.	Catalog: \$7.00 Write in No. 1179		✓					✓	✓		✓			✓		✓		N	25%
Roy Electric Co. 800-366-3347; Fax: 908-317-4629 www.royelectriclighting.com Westfield, NJ 07090	Manufacturer of period lighting fixtures: Victorian, Mission, Turn of the Century, Arts & Crafts, Colonial & more; ceiling fixtures, chandeliers, pendants, flush mounts, sconces & glass shades.	Free Write in No. 430	✓	✓	✓	✓	✓	Art Deco	✓	✓	✓	✓	✓		✓	✓	✓	✓	Y	20%
Shelburne Lighting & Metal Crafts 603-466-2971; Fax: 603-466-2055 www.shelburnelighting.com Shelburne, NH 03581	Supplier of Colonial-style lighting: lanterns & day lighting; historic reproductions; standard & custom.	Free Write in No. 833	✓									✓					✓		Y	60%
Silver Creek Antler Co. 888-8ANTLER; Fax: 970-945-1315 www.silvercreekantler.com Glenwood Springs, CO 81602	Manufacturer of chandeliers in small to massive pieces: wires are buried; rustic.	Free						Rustic	✓	✓			✓	Floor Lamps		✓		✓	N	100%
St. Louis Antique Lighting Co. 314-863-1414; Fax: 314-863-6702 801 N. Skinker Blvd. St. Louis, MO 63130	Manufacturer & supplier of architectural lighting: lamps & other fixtures; all styles; historic reproductions & custom lighting; restoration services; commercial & ecclesiastical projects.	Free Write in No. 6190	✓	✓	✓	✓	✓	Art Deco	✓	✓	✓	✓				✓	✓	✓	Y	75%
The Anvil Works 423-334-3233; Fax: 423-334-4620 P.O. Box 392 Decatur, TN 37322	Supplier of hand-forged metalwork: lighting, fences, gates, finials, benches & more; iron, chrome, steel, stainless steel, brass, copper, bronze & distressed iron; antique restorations; custom design services & finishes.	Free Write in No. 3024	✓	✓	✓	✓	✓		✓	✓	✓	✓				✓	✓	✓	Y	95%
Versailles Lighting, Inc. 888-564-0240; Fax: 212-268-7473 www.versailleslighting.com Delray Beach, FL 33444	Manufacturer of lighting fixtures: chandeliers, sconces, pendants & lanterns; crystal, glass, brass, acrylic & wrought iron; any style & any period; some utilize original parts; repair, restoration & replication; custom lighting.	Free	✓	✓	✓	✓	✓	Art Deco & Southwestern/Rustic	✓	✓	✓	✓				✓	✓	✓	Y	95%
Victorian Lighting Works, Inc. 814-364-9577; Fax: 814-364-2920 www.vlworks.com Centre Hall, PA 16828	Manufacturer of Victorian lighting fixtures: chandeliers & sconces in solid brass.	Free Write in No. 3730		✓	✓				✓	✓	✓						✓	✓	Y	25%
Wiemann Ironworks 918-592-1700; Fax: 918-592-2385 www.wiemanniron.com Tulsa, OK 74104	Custom fabricator & installer of ornamental metalwork: gates & railings, balustrades, fences, lighting & weathervanes in wrought iron; custom finishes.	Free Write in No. 1223	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓			✓	✓	✓	Y	100%
Wooden Nickel Antiques 513-241-2985; Fax: 513-412-5452 www.woodennickelantiques.net Cincinnati, OH 45202	Supplier of salvaged architectural elements: custom-made stained-glass ceilings, large furniture, fountains, chandeliers & more.	Free Write in No. 9900		✓	✓		✓	Art Deco	✓	✓	✓	✓			✓	✓	✓		N	5%
Woolen Mill Fan Co. 717-382-4754; Fax: Same as phone www.architecturalfans.com New Park, PA 17352	Manufacturer of decorative ceiling fans: historic & new designs; belt-& pulley models & beltless single-motor units; iron, bronze & aluminum castings.	Free Write in No. 316												Ceiling Fans					N	10%
Yamagiwa USA Corp. 888-879-8611; Fax: 818-879-8640 www.yamagiwausa.com Thousand Oaks, CA 91362	Manufacturer of Frank Lloyd Wright-reproduction light fixtures: authorized by Frank Lloyd Wright Foundation.	Free					✓		✓	✓	✓		✓	Floor Lamps					N	5%

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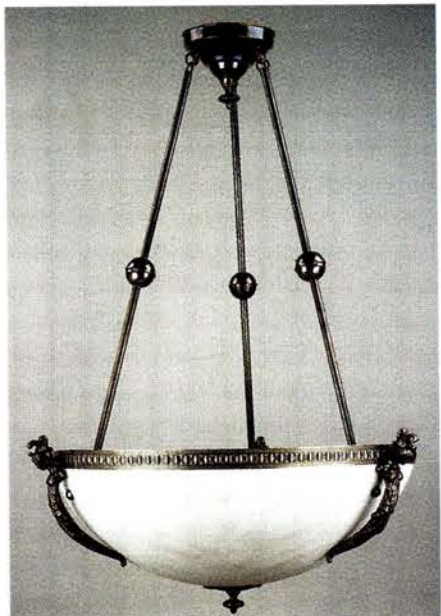
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WRITE IN NO. 8041

INTERIOR LIGHTING PORTFOLIO

For full contact information on these companies, consult the SourceList on pp. 186-194.



The model #1929-1 hanging tripod lighting fixture from CLASSIC ILLUMINATION is shown here with a faux-alabaster shade, #ABL-2 finish. Write in No. 5970



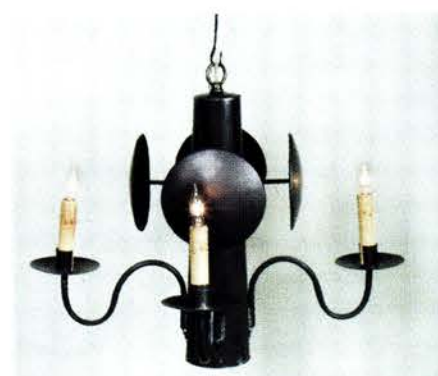
This three-cloche candelabra in hand-forged iron from THE ANVIL WORKS stands 71 in. tall and 28 in. wide. Write in No. 5024



BALL & BALL LIGHTING manufactures historically accurate copies of interior and exterior lighting in 18th-, 19th-, and 20th-century styles. Write in No. 7660



This eight-arm chandelier from DEEP LANDING is model #CH-8000 in the catalog. Write in No. 809



This four-light chandelier from OLDE MILL LIGHTING was crafted in the Early American style. Write in No. 2664



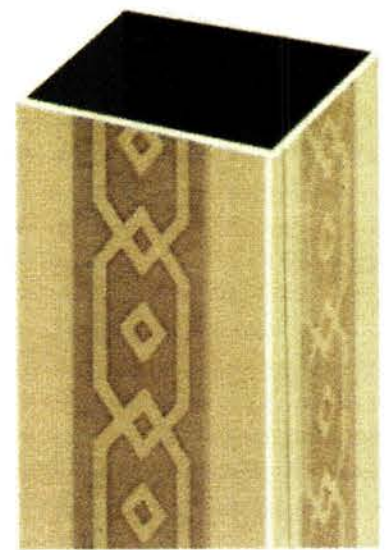
AURORA LAMPWORKS restores and replicates antique lighting fixtures, including sconces, pendants, lanterns, and chandeliers such as this. Write in No. 517



The cone chandelier, model #CH207 from HUTTON METALCRAFTS, features candelabra sockets and a switch that controls the candle lights separately. Write in No. 2855



Hand-forged chandeliers, such as the Palmyra, are the specialty of STEVEN HANDELMAN STUDIOS. Write in No. 485



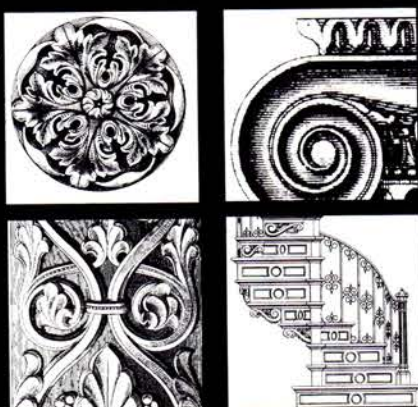
This ornamental tubing, profile #6094 from AUTOMATIC TUBING, was crafted in brass for interior lighting applications. Write in No. 159



These Gothic-styled wall-mounted fixtures from FOURTEENTH COLONY LIGHTING can be manufactured in brass or copper. Write in No. 5054



The original of this rare gilded wood and tinned-sheet iron chandelier recreated by AUTHENTIC DESIGNS dates from the mid to late 18th century. Write in No. 60



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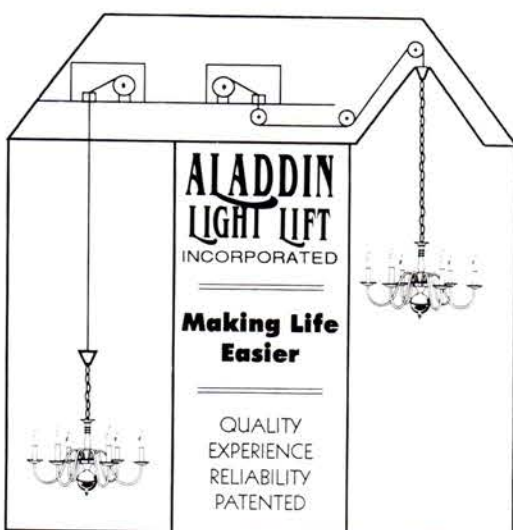
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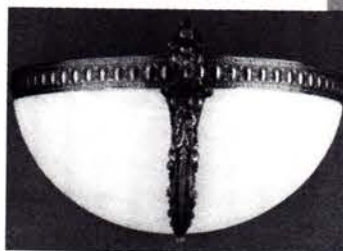
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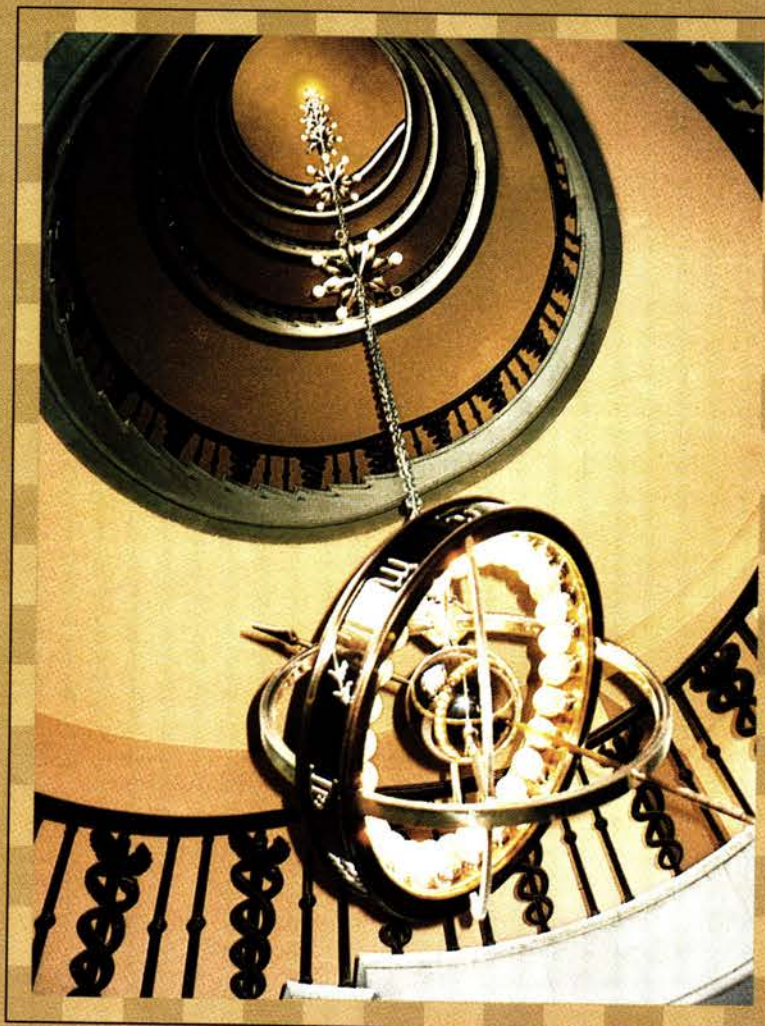
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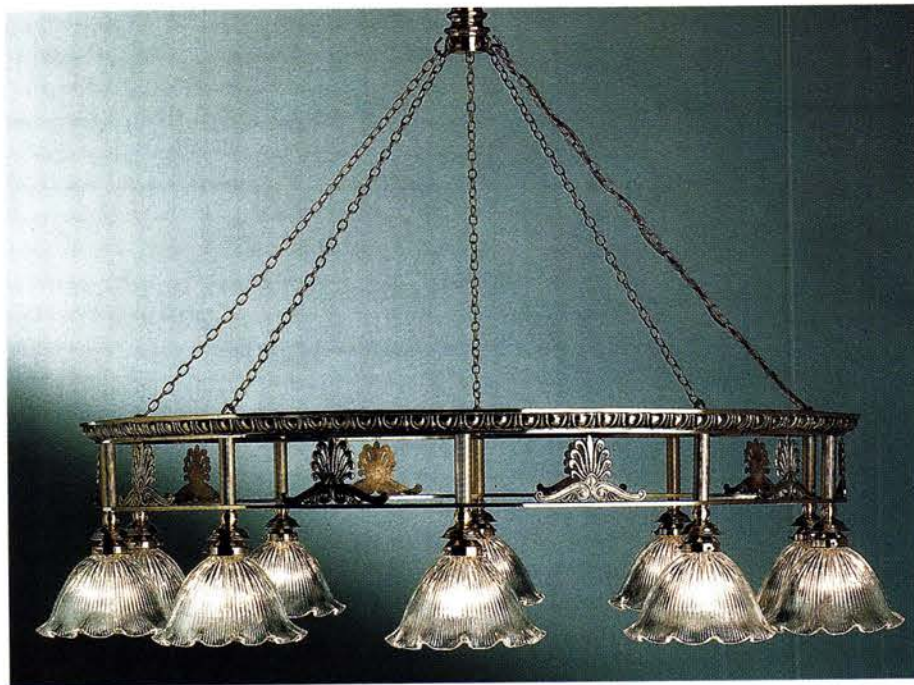
For full contact information on these companies, consult the SourceList on pp. 186-196.



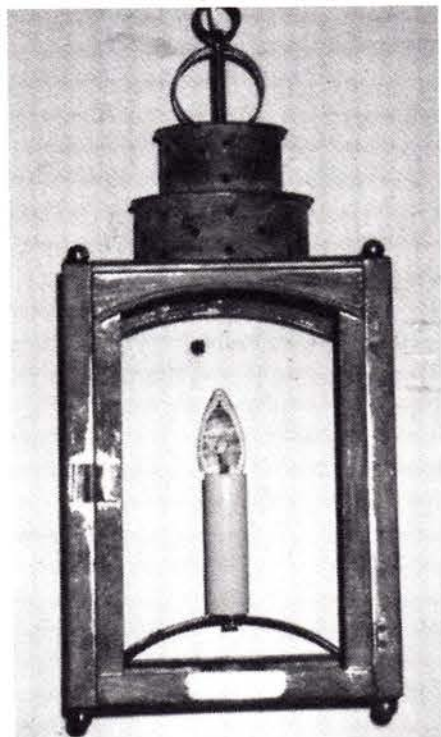
BRASS LIGHT GALLERY designed this Greek Key Alabaster Pendant, catalog #741-D. Write in No. 8890



This chandelier, model #940 from COPPER HOUSE, measures 26x23 in. Call 800-281-9798 for more information



This ten-light pendant from ANDY THORNTON was manufactured in polished cast brass with prismatic light shades. Write in No. 2756



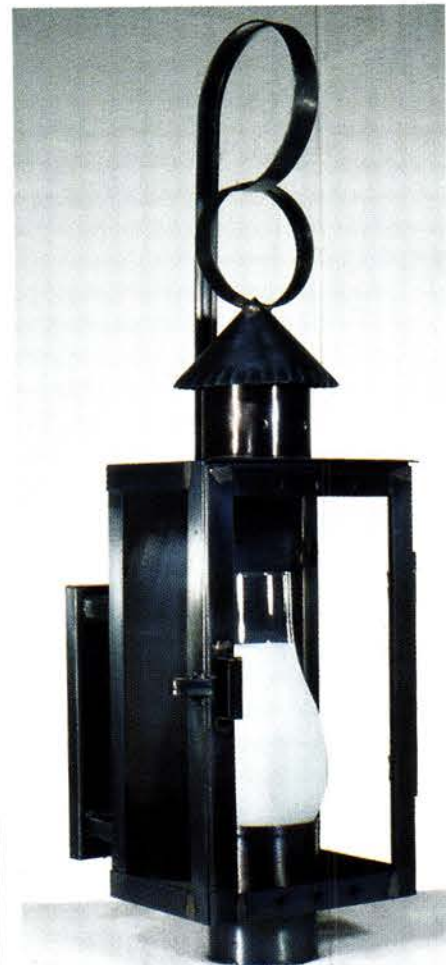
The Old Colony lantern from SHELBURNE LIGHTING & METAL-CRAFTS is offered in two sizes to be wall mounted or hung from your ceiling. Write in No. 855



Vine Lamps, such as the floor model #L147 at the left, from CHRISTOPHER THOMSON IRONWORKS are wired with a solid cast-brass three-way fixture, and topped with a hand-forged finial. Write in No. 257



The Scrolled Sconce from FINE ARCHITECTURAL METALSMITHS features buttonhead scrolls collared against a beveled and hammered back-plate. Write in No. 2640



This Colonial-style pewter lantern from JOSIAH R. COPPERSMYTHE can be hung on an inside or outside wall. Call 508-452-8590 for more information.



G LIGHTING designs and manufactures specification-grade, decorative commercial chandeliers, sconces, and lanterns. Write in No. 2555



The blades from WOOLEN MILL FAN CO.'s belt-driven ceiling fans are crafted from solid mahogany. Write in No. 516



This replica chandelier was manufactured by HISTORICAL ARTS & CASTING in cast-aluminum for the St. George Tabernacle in St. George, Utah. Write in No. 1210



The two-tier Small Venetian chandelier from HANS DUUS measures 54-in. wide by 42-in. tall. Write in No. 8041

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— The Editors

INTERIOR LIGHTING PORTFOLIO

For full contact information on these companies, consult the SourceList on pp. 186-196.



This ornate chandelier is typical of the many original 19th-century models available from JOAN BOGART ANTIQUES.



CORBETT LIGHTING designed and manufactured this six-light chandelier.



The Albany wall sconce was hand crafted in copper by CHARLESTON LIGHTING & MFG.



Hand-crafted chandeliers from PECA-SO LIGHTING are said to have the most densely clustered crystal patterns in the industry.



The Yorkminster lantern is one of many models available from MILLS ARCHITECTURAL LIGHTING. Write in No. 1416



This custom chandelier with buffalo motifs was designed by PENROSE for use in luxury condominiums in Jackson Hole, Wyo.



This 46-in. tall x 39-in. wide Chelsea Pendant Light from ACCESSORIES INTERNATIONAL was constructed in cast aluminum with polished bronze accents.



Part of the Artisan series, the model #4259 from HINKLEY LIGHTING is available in sandstone, verde, or white finish. Write in No. 680



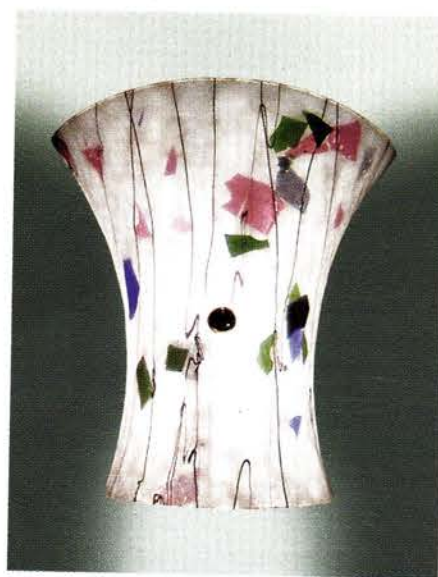
Brewmaster is one of FANIMATION's unique fan models. Write in No. 9550



Hand-crafted electric wax candles from ELCANCO have flame-like bulbs, but won't drip. Write in No. 2040

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The Leo Wall Sconce from DEREK MARSHALL LIGHTING comes in a wide variety of American art glass choices, including this white confetti glass with red, blue, and green confetti, and charcoal streamers.



This one-of-a-kind wall sconce was hand forged in mild steel by the artisans at JEFFERSON MACK METAL in the firm's San Francisco facility; it measures 1x2 ft. Write in No. 1079



This solid-brass reproduction chandelier, model #C41G12 from VICTORIAN LIGHTING WORKS, is available with or without the #SG35 shade.



Signs of the zodiac adorn this bronze and chrome light fixture from CRENSHAW LIGHTING. Write in No. 515



LIBERTY BRASS TURNING has added six new models to its Coronado line of decorative fittings, the Mercury, Athena, Galaxy, Aurora, Cosmos, and Saturn. Write in No. 8440



This leaf-motif chandelier from ROY ELECTRIC was hand-crafted in a Turn of the Century style. Write in No. 450



CRAFTSMEN LIGHTING hand crafted this Pacific-style copper wall lantern, available in custom sizes as well as this 7-7/8x10x12-in. model. Write in No. 568



From GABY'S SHOPPE's Victorian Collection, the model #18003 four-light chandelier measures 32 in. wide by 23 in. high. Write in No. 2520



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WRITE IN NO. 1402

THE POETRY OF CLASSICAL ARCHITECTURE

With his design of the Queen's Gallery, Buckingham Palace, John Simpson brings Classicism into the new millennium.

John Simpson: The Queen's Gallery, Buckingham Palace and Other Works
by Richard John and David Watkin; Photographs by June Buck, Andreas von Einsiedel, John Critchley, Alexandra Papadakis
Published by Andreas Papadakis Publisher
16 Grosvenor Place, London SW1X 7HH
136 pp.; hardcover; 82 color photographs; 23 illustrations
\$30.00; ISBN: 1 901092 39 9

by Eli Connaughton

You don't have to look far these days to see acres of sprawling subdivisions seemingly dropped from the sky or miles of four-lane roads overrun with fast-food chains, strip malls, and office parks of steel and glass. In this country, we have been experiencing an epidemic of super-charged growth where history is continuously paved over and rebuilt. You don't have to look far, in other words, to find some kinship with the British architect John Simpson, who says of his love of Classical architecture: "Whereas function and circumstances change from generation to generation, people do not, for they have the same senses, the same appreciation for space, forms, and materials, and are proud of their cultural lineage and their link with the past."

In this comprehensive book, authors Richard John and David Watkin explore the history, influences, and current practice of the Classicism of Simpson. Critics say all forms of Neo-Classicism are at best imitative, at worst irrelevant kitsch. They warn that the strict tenets of the Classical order make us slaves to the past. Simpson, who is a member of the Institute of Classical Architecture, argues that the language of Classicism is not only timeless, but, partnered with vision and an understanding of modern technology and materials, can transcend its own vocabulary.

John Simpson was born in 1954, in what could be argued the heart of the modern age. By the time he was three, dogs were barreling through space,

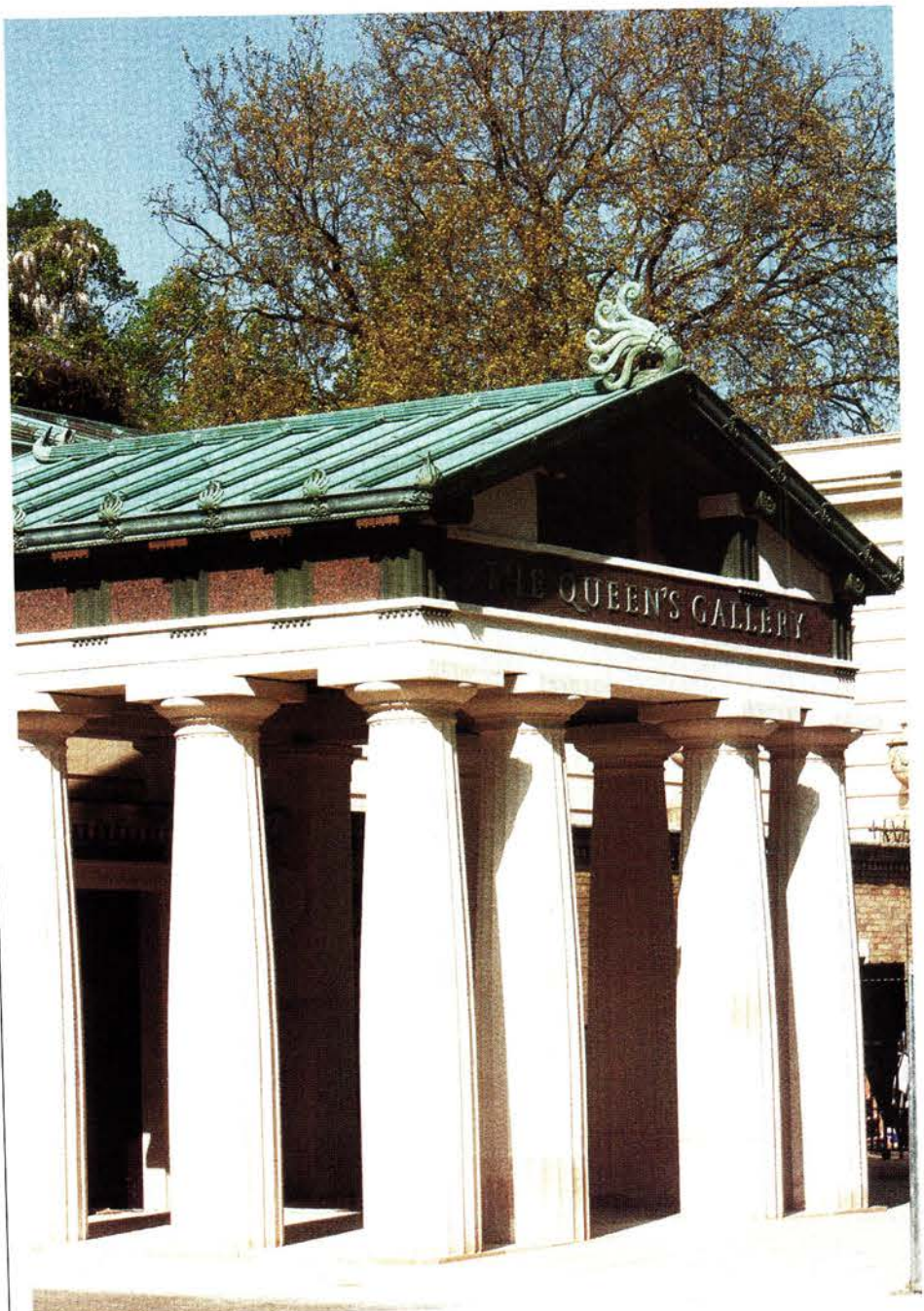
teenagers were twisting to rock 'n' roll, and everyone was buying a television. So it is interesting to note that throughout his education, Simpson was drawn to the past. His first apprenticeship was under his father, also an architect, whose traditional buildings Simpson helped survey. In 1972, he enrolled in the Bartlett College of Architecture and Planning. Here, where most of his teachers were proponents of the Modern Movement, Simpson took his education into his own hands and spent a year cataloging and surveying the historic buildings of Covent Garden for the architectural firm Duffy, Lange, Giffone & Worthington



In the Nash Gallery, Simpson tried to recapture John Nash's original design for the ceilings, which included hanging arches and domes. The massive ceiling beams can also be used as service walkways for the lighting above.

(DLGW). From this point through his post-graduate work, also at Bartlett, Simpson decided to simply study buildings he liked, most notably Sir John Soane's house and museum in London's Lincoln's Inn Fields in which Soane sought to unify architecture, painting, and sculpture.

Soane's vision influenced Simpson in his latest and most important work — the design of the Queen's Gallery, Buckingham Palace. Completed in 2002, Simpson's design is a Classical tour de force. The entrance portico alone is a testament to his mastery of space, light, and the principles of Greek construction. Borrowing from a range of influences such as the early Greek Doric columns of the 6th century B.C.E., the unique rosette and lotus capitals from the first Temple of Hera, and the interesting asymmetry of the



Like the entrance to Buckingham Palace, the entrance portico of the Queen's Gallery is made of Portland stone, while the frieze on the entablature is made of red granite. Simpson raised two additional Doric triglyphs, in green Westmoreland stone, above the frieze, using them as brackets to support the open pediment.

Erechtheion on the Acropolis, Simpson's entrance not only invites us in, but seems to do so from two directions at once. His interiors, in contrast to the stark, minimalist museums of the 20th century, are rich in color and ornament, complementing the art they contain. In this Soanean spirit, he also commissioned sculptures by Alexander Stoddart, whose friezes in the entrance hall reference *The Iliad* and *The Odyssey*.

John and Watkin, both scholars of architecture and prolific writers, are obviously inspired by Simpson's work, and their passion for their subject shines through. They explore every detail of the Stair Hall; the Pennethorne, Chambers, and Nash Galleries; and the Royal Kitchen with the excitement of children looking for a secret doorway. In fact, we do stumble upon a few points of intrigue — hollowed vaults hiding storage spaces or plaster rosettes concealing light sources and air conditioning vents.

Simpson's earlier work, such as Ashfold House, designed for his parents; his interiors at Gonville and Caius College; and his influence on urban planning in Chelsea and Solihull are also showcased in the book. A full chapter is devoted to furniture design and interior details such as elevators, which Simpson feels should be enjoyed as much as any room.

The book is beautifully illustrated with interior and exterior photographs, floor plans, and pencil sketches of ornate embellishments, while the prose is thoughtful and covers a wide breadth of historical and technical knowledge. What elevates the book beyond mere pedagogy is John's and Watkin's personal affiliations with Simpson, with whom they worked in their collective stints at the Prince of Wales's Institute of Architecture. There is a human hand, mind, and vision present in every room and facade, as well as a history to be considered — a reflection, no doubt, of Simpson's own philosophy: "Perhaps because buildings are created by human beings, like their creators they can be complex and often are not quite what they appear to be on the surface." ■

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5810. Brass & Iron Registers — Manufacturer of solid-brass & cast-iron registers: based on 19th- & early-20th-century originals. **Reggio Register Co.**

3240. Cast-Iron Specialists — Restorer & constructor of cast-iron ornament: historic patterns for casting architectural & landscape products. **Robinson Iron**

7730. Foundry, Forge & Fabrication — Custom & restoration architectural metalwork, glass, stone & FRP. **Schiff Architectural Detail**

470. Cast-Iron Staircases — Manufacturer of metal stairs: the Kensington uses cast iron for straight porch steps; circular stairs; modular components; bolt-together assembly. **Steptoe & Wife**

3024. Custom-Created Metalwork — Fabricator of hand-forged metal art: antique restoration; installation & artistic metal finishes & patinas. **Bubba's Anvil Works**

8035. Ornamental Metalwork — Manufacturer of ornamental hemispheres & balls: bending of pipe tube shapes. **The Wagner Companies**

1223. Wrought Metalwork — Supplier of fences, gates, balustrades & more: residential & commercial applications; family-run studio. **Wiemann Ironworks**

ARCHITECTURAL MILLWORK & COLUMNS

1300. Wood Restoration — Manufacturer of a two-part epoxy system: restores rotted wood; saves historically significant & hard-to-duplicate pieces; repairs can be sawn, drilled, sanded & painted. **Abatron**

1308. Wood Columns & Capitals — Manufacturer of custom wood columns & balusters: fluted, plain & twisted; all types of porch parts in any wood specified. **American Wood Column Corp.**

1091. Custom Curved Casings — Custom fabricator of window, door & archway casings & jambs: hundreds of standard designs. **Arched Casings**

Colonial Millwork — Specialist in 18th- & 19th-century millwork: open & closed pediment doorways, Palladian windows, M-&T sashes, fanlights, paneled fireplace walls & more. Call 413-367-9441. **Architectural Components**

1470. Cast Architectural Elements — Designer & manufacturer of columns, balustrades, pool coping, pavers, stairs treads, moldings, wallcaps & mantels. **Architectural Facades Unlimited**

6400. FRP Ornaments — Manufacturer of molded-fiberglass replicas of exterior ornaments originally made in other materials: cornices, balconies, balustrades & planters. **Architectural Fiberglass Corp.**

6490. Paneling, Casework, Carving — Manufacturer of architectural casework, mantels, paneling & deep-sculpted moldings. **Architectural Paneling**

6130. Molded Architectural Ornament — Manufacturer & installer of cast decorative elements: exterior & interior; wide variety of materials. **Architectural Reproductions**

7260. Molding Materials — Manufacturer of glass-fiber-reinforced modified gypsum system: for interior or exterior ornament; simple to use, non-toxic, & lightweight, with short mold cycles. **Ball Consulting, Ltd.**

521. Specialty Lumber Products — Mill: Western red cedar shakes & shingles; tapered & Victorian fancy cuts; tongue-&groove flooring. **Bear Creek Lumber**

1396. Wood Turning — Manufacturer of stock- & custom-wood components: cabinets, columns, porch parts & turnings. **Brown Wood Products**

2744. Recycled Barn Wood — Supplier of salvaged materials: windows, doors, columns, flooring & shutters; wholesale prices; ever-changing inventory. **Carlson's Barnwood Co.**

1580. Fiberglass Columns — Supplier of architectural fiberglass columns: ready to prime & paint; easy to install; maintenance-free; plain & fluted; interior & exterior. **Chadsworth's 1.800.Columns**

180. Classic Wood Columns — Supplier of architectural wood columns: authentic replication to stock in variety of sizes & designs; many wood species; interior & exterior; round, square & octagonal; custom work. **Chadsworth's 1.800.Columns**

4200. Complete Millwork Packages — Full-service supplier of architectural components: for period exteriors & interiors. **Classic Architectural Specialties**

907. Composite Columns — Manufacturer of load-bearing, architecturally correct composite columns. **Classic Innovations**

1416. Custom Cabinetry — Supplier of cabinetry: chestnut, maple, oak, pine, heart pine, cherry, elm & walnut; choice of mullion doors, weathered glass & hardware; colors & glass custom matched. **Country Road Assoc.**

5270. Heavy Timbers — Supplier of heavy timbers: pine, hemlock & oak timbers: up to 26 ft.; pine pattern stock & grade-stamped timbers. **W.D. Cows, Inc.**

1310. Victorian Millwork — Designer of 19th-century millwork: fretwork, brackets, corbels, grilles, turnings & gingerbread; solid oak & poplar; molded-polymer architectural elements. **Cumberland Woodcraft**

1107. Custom Stairbuilders — Manufacturer of straight, curved, circular & spiral stair systems. **Deer Park Stairbuilding & Millwork**

8210. Columns & Turnings — Designer & manufacturer of moldings, curved crowns, porch posts, capitals & carvings: fluting, spiral & rope twist; turned & stavework columns. **Fagan Design & Fabrications**

23. Fiberglass Moldings — Stock & custom fiberglass cornices & columns: restoration & new construction; window surrounds, panels, balustrades, brackets, domes & other specialty items. **Fibertech Corp.**

806. Architectural Elements — Supplier of balustrades, moldings, sculpture & more: GRG, GFRC, compo, Forton-MG & more. **Goodwin Assoc.**

380. Architectural Columns — Manufacturer of architectural wood columns: wide range of stock & custom sizes; mantels, paneling & millwork. **HB&G**

3460. Heart-Pine Specialists — Supplier of millwork: longleaf heart pine & other wood species; flooring, millwork, moldings, registers & more. **Harvey Millwork**

Custom Log Homes — Dovetail-notch square-log homes: design, manufacture & building. Call 800-247-4442. **Hearthstone Log Houses**

3169. Foam-Cutting Machines — Manufacturer of hot-wire foam-cutting machines for making expanded-polystyrene moldings. **Hotwire Direct Foam Cutting Machines**

3016. Historical Millwork — Supplier of period-style millwork for a range of applications. **Hull Historical Millwork**

1407. Cast Architectural Ornament — Supplier of architectural products: columns, moldings, doors, mantels & cabinetry; millwork & carvings. **Imperial Production**

6320. Rope Columns & Moldings — Custom fabricator of wood turnings & other wood products. **JMS Wood Products**

7990. Shutters — Manufacturer of movable-louver & raised-panel shutters: pegged mortise-&tenon joinery; custom & traditional designs. **Kestrel Mfg.**

196. Exterior Shutters — Manufacturer of mahogany exterior shutters: raised-panel, louvered & cut-out styles. **Kingsland Co.**

7380. Hand-carved Wood Ornament — Custom designer & fabricator of hand-carved wood furniture & architectural ornament: any size & any style. **Dimitrios Klitsas**

4100. Classically-Correct Columns — Manufacturer of columns: redwood, hardwood, marble composite & poly-resin. **Melton Classics**

3050. Architectural Millwork — Custom architectural millwork shop: doors, windows & entryways. **Millwork Specialties**

50. Architectural Woodturnings — Custom fabricator of spirals & turnings, hollow spirals, flutes, reeds, balusters, posts, circular moldings, hand rails & stairwork. **Mohamad Woodturning Corp.**

7070. Wood Columns — Millwork: balusters, newel posts, porch columns, railings & custom turnings; 1870 to 1920 designs; clear heart redwood, oak & mahogany. **Pagliaccio Turning & Milling**

345. Bamboo Flooring — U.S. importer of bamboo flooring from the Dutch firm Plyboo. **Plyboo America, Inc.**

1610. Classical Wood Columns — Manufacturer of wood columns: from 4- to 50-in. dia. & up to 36-ft. long; matching pilasters & 14 styles of capitals; maintenance-free aluminum bases; custom work. **Schwerd Mfg.**

4620. FRP Cornices — Designer & engineer of cast building components & architectural ornaments: on-site moldmaking. **Seal Reinforced Fiberglass**

1353. FRP Cupolas — Designer & engineer of cast building components & architectural ornaments: on-site moldmaking. **Seal Reinforced Fiberglass**

7860. Stock & Custom Millwork — Supplier of interior trim packages, moldings, paneling & more: walnut & other wood species; stock & custom. **Select Millwork Co.**

6830. Movable Louver Shutters — Supplier of interior & exterior shutters & heart pine flooring. **Shutter Depot**

1321. Shutters — Manufacturer of shutters: pine & cedar; interior & exterior; wide-louver plantation shutters, raised panels & cut outs. **Shuttercraft**

660. Wood Columns — Manufacturer of columns: up to 40-in. dia. & 40-ft. long; tongue-&groove stave joints; clear northern pine, clear heart redwood & other woods; standard & custom. **Somerset Door & Column**

138. Moldings — Supplier of standard & non-standard moldings: any size, shape & species. **Superior Moulding, Inc.**

7120. Victorian Millwork — Fabricator of screen doors, porch parts, custom woodwork, moldings, ornamental trim & gingerbread: all types; all from original period patterns. **Wood Factory**

1056. Western Red Cedar Shutters — Manufacturer of fixed-louver, raised-panel & recessed-panel shutters & shutter hardware. **Timberlane Woodcrafters**

1414. Architectural Ornament — Supplier of architectural ornament: columns, capitals, balustrades & more; Classically styled; polystyrene resin, fiberglass & cultured marble composite. **Timeless Architectural Repro.**

1061. Victorian Woodworks — Large catalog of gingerbread, porch parts & other interior & exterior wood parts. **Vintage Woodworks**

346. Wood-Flooring Finishes — Supplier of oil- & water-based finishes for wood floors. **Waterlox Corp.**

1316. Reproduction Millwork — Manufacturer of windows & doors: architectural millwork in historical styles. **Weston Millwork Company**

1650. Classical Woodcarver — Architectural carving: mantels, capitals, signage & more; original & reproductions from samples. **Frederick Wilbur — Carver**

5240. Wood Carvings — Supplier of architectural elements: stair parts, capitals, posts, corbels & more. **Woodline Company**

ROOFING MATERIALS, SIDING & ROOF SPECIALTIES

1450. Simulated-Clay Roof Tile — Manufacturer of Scan Roof metal panels that look like clay tile: standing-seam, batten-seam roofing & custom systems. **ATAS International**

1420. Lead Roofing — Installer of lead roofing: all types, sheet, shingle; lead pools, fountains & more. **Abernathy Construction Co.**

145. Snow Guards — Supplier of a full range of snow guards: for all types of roofs; new installations & retrofit; consultation & engineering services. **Alpine Snowguards**

403. Lead Roofing — Manufacturer of traditional, long-lasting lead roofing: technical assistance. **American Eagle Roofing**

2723. Imported Slate — Supplier of a wide range of slate for roofing: nationwide shipping. **American Slate Co.**

657. Stock & Custom Cupolas — Manufacturer of cupolas: vinyl & wood; louvered & window; weather-vanes, finials & banners; stock & custom. **Annapolis Weathervanes & Cupolas**

1723. Custom Color Tile — Concrete roof tile: more than 300 custom-blended colors; nine different profiles. **Bartile Roofs, Inc.**

1012. Roof Installation — Fabricator & installer of all types of ornamental copper gutters, leaders & more: all types of roofing, especially metal. **Baschnagel Brothers**

2532. Roof-Drainage Systems — Manufacturer of commercial & residential roof-drainage systems: all metals; roof trims & accessories; soffit-ventilation systems; snow guards for all roof types. **Berger Bros Co.**

596. Architectural Sheetmetal — Supplier of finials, spires, dormers, leaders, chimney tops & other sheet-metal elements. **C&J Metal Products**

1405. Roofing & Flooring Slate — Supplier of new & used, natural Vermont roof slate, flooring slate & flagstones. **Camara Slate Inc.**

410. Chimney Pots — Manufacturer of antique chimney pots in English and American styles: terra cotta; glazed & unglazed. **Chimney Pot Shoppe**

1280. Gutter Products — Manufacturer of seamless half-round gutters: copper & heavy aluminum; compatible with hidden nut-&bolt hanging system. **Commercial Gutter Systems**

598. Metal Roofing — Standing seam, aluminum shakes & steel tiles for roofing: Armor Tile looks like Spanish roof tile. **Custom-Bilt Metals**

3720. Slate & Copper Work — Restoration of wood-gutters & sheetmetal roofing. **Durable Slate Co.**

2450. Lightning-Protection Systems — Fittings, conductors, air terminals, grounds, finials & other lightning-protection components. **East Coast Lightning Equipment**

7220. Slate Roofing & Flooring — Importer & distributor of roofing & flooring slate: about 50 different colors; can ship on short notice. **Echeguren Slate, Inc.**

605. Vermont Roofing Slate — Supplier of natural roofing slate: wide range of colors, sizes & weights; can match slates for additions & restoration projects. **Evergreen Slate Co.**

2222. Simulated Slate — Manufacturer of Slateline series of fiberglass-asphalt shingles simulating the look of slate: attaches with adhesive seals; class A fire & wind rating from Underwriters Laboratory. **GAF Materials Corp.**

1026. Snow Guards — Manufacturer of Gothic-style, three-pipe & two-pipe snow guards: slate cutters, rippers & hammers. **GT Products, Inc.**

3770. Roofing Slate — Quarrier & fabricator of slate: experienced in matching slate for both roof restorations & new construction projects; stock & custom sizes. **Greenstone Slate**

1038. Copper Sheetmetal Work — Fabricator & installer of custom copper sheetmetal: gutters, cornices, finials & standing seam roofing. **Hans Liebscher Custom Copper Works & Sheet Metal**

1183. Metal Roofing — Supplier of metal roofing. **Interlock Industries**

6530. Cedar Shingles — Supplier of shingles, roofing, siding, decks & trim: Western red cedar, Douglas fir, redwood, cypress & mahogany; historic projects; custom orders. **Liberty Cedar**

2760. Clay Roof Tile — Manufacturer of clay tiles: many shapes, sizes, textures & colors; stock & custom tile; experienced in restoration matching. **Ludowici Roof Tile Co.**

8300. Metal-Roof Restoration — Nationwide roofing contractor: extensive experience in sheetmetal fabrication & restoration. **NIKO Contracting**

5025. Metal Roofing Ornament — Fabricator of architectural ornament: finials, cupolas, crosses, cornices, weathervanes, domes, gutters, leader boxes & more; copper & zinc. **Ornametals, LLC**

957. Rain Gutters — U.S. distributor of Minoletti half-round gutter products: copper & zinc. **Park City Rain Gutter**

2727. Snow Guards — Polycarbonate snow guards, clear or an array of colors. **Polar Blox, Inc.**

1346. Aluminum Roofing — Manufacturer of two aluminum roof coverings: Reinke Shake & Reinke 3-Tab Cover; seven colors & copper. **Reinke Shakes, Inc.**

3710. Salvaged Clay & Slate Roof Tiles — Restorer of historic tile & slate roof systems; installation available nationally. **Renaissance Roofing**

9560. Authentic Slate — Supplier of roofing & flooring products; largest inventory of new & used Ludowici inventory. **Roof Tile and Slate**

9340. Roofing Slate — Supplier of roofing slate; in many colors; both domestic & imported slates. **Slate International**

1015. Snow Guards — Manufacturer of snow guards; clear or color-matched UV-stabilized polycarbonate or metal. **Sno-Gem, Inc.**

1037. Snow Fences & Guards — Designer and manufacturer of snow fences and brackets engineered from the fail point of the system. **TRA Snow Brackets**

1413. Slate Roofing Tile — Supplier of slate roofing tile & flagstone. **Taran Bros. Slate**

4420. Clay-Tile Matching — Supplier of clay roofing tiles; matching; large inventory on hand; free tile consulting & identification. **The Tile Man**

4570. Tile Roofs — Supplier of clay-tile roofs; new & antique tile, consultation & installation. **Tile Roofs, Inc.**

2840. Roofing Tile — Manufacturer of roofing tile; 50-year warranty on lightweight concrete roofing tile; rough shake, Spanish Mission, Riviera & slate styles; custom colors & shapes. **Vande Hey Roofing**

DOORS, WINDOWS & HARDWARE

1265. Historic Restoration Windows — Manufacturer of custom windows & doors; with AWI premium-grade construction; replacement, storm & screen sash. **Adams Architectural Wood Products**

1008. "Wavy" Restoration Glass — Supplier of economical wavy glass; for restoration of 18th- & 19th-century buildings. **Advantage Glass, LLC**

1004. Wood Window Restoration — Repairer & remanufacturer of wood windows. **Allegheny Restoration**

690. Invisible Storm Windows — Manufacturer of removable storm windows; matches any window shape or color; inside or outside mounted; screen & glass panels; fixed, magnetic, sliding & lift-out styles. **Allied Window**

8031. Landmark Restoration — Supplier of traditional French windows & doors; custom units in solid French oak with classic cremone & espagnolette hardware; French firm. Call 207-541-3626 for more information. **Asselin SA**

2930. Authentic Restoration Hardware — Supplier of authentic 18th- & 19th-century hardware: hinges, latches, pulls, shutter hardware & more; custom work & repairs. **Ball & Ball**

1404. Wood Doors & Windows — Manufacturer of energy-efficient historic wood windows & doors; natural pine & red oak windows; cedar doors; custom built. **Belisle Ancestral Doors**

83. Cedar Windows & Doors — Custom manufacturer of windows & doors; clear Western red cedar; many glazing options. **Cedar Windows & Doors By Bergerson**

8380. Bronze Hardware — Foundry; stock & custom architectural hardware for windows & doors; various metals. **Bronze Craft Corp.**

9650. Wood Entries — Furniture builders; entry-door systems built like fine furniture. **Chautauqua Doors**

2280. Lost-Wax Cast Hardware — Manufacturer of hardware: bronze, brass & aluminum; many 19th-century pattern designs; custom cast lighting. **Cirecast**

2390. Interior Window Systems — Manufacturer of specially engineered interior windows: soundproofing & high energy efficiency. **Cityproof Corp.**

9600. Wood Screen Doors — Manufacturer of wood screen doors; many styles & any size; pine, Douglas fir, oak & mahogany; stained & painted. **Coppa Woodworking**

6980. Arts & Crafts-Style Hardware — Supplier of hand-hammered hardware: sash lifts, door knobs, handles & more; copper, bronze & brass. **Craftsmen Hardware Co.**

1387. Steel Windows — Distributor of powder-coated, hot-dipped galvanized steel windows; 50 standard colors, custom colors; 10-year factory warranty. **Crittall Steel Windows**

432. Historic Hardware — Manufacturer of door, window, cabinet, transom & specialty hardware; Victorian, Arts & Crafts, Colonial, Art Deco & other styles. **Crown City Hardware**

1083. Doors & Windows — Manufacturer of wood doors & shutters & wood & metal windows; oak, mahogany & teak; hand-crafted hardware, primarily for European-style windows & doors, in bronze & brass. **Custom Trades International, Inc.**

669. Wood Windows — Replica wood windows; modern engineering with concealed weatherstripping and balances. **Dahlgrens, Inc.**

109. Overhead Garage Doors — Carriage- and vintage-style garage doors with overhead door operators; also, matching entry doors. **Designer Doors, Inc.**

Replacement Sash — Supplier of circle, oval, round-top & Gothic doors; sash or complete window unit; custom moldings, doors & millwork to specs; any size & layout. Call 570-788-1145. **Drums Sash & Door**

2260. Fine Architectural Hardware — Supplier of door hardware, bath fittings, cabinet & furniture mounts, lighting & more; all metals; all periods. **E.R. Butler & Co.**

3029. Wood Windows, Doors, & More — Manufacturer of wood windows, doors, storm doors, screens & moldings. **Englander Millwork Corp.**

8022. Wood Windows & Doors — Manufacturer of custom all-wood windows & doors; true divided lites, unusual muntin patterns & choice of weatherstripping. **Enjo Architectural Millwork**

8004. Architectural Hardware — Designer & manufacturer of architectural hardware: traditional designs; brass & bronze. **Frank Allart & Co.**

1910. Custom & Historic Reproduction Windows — Supplier of leaded-glass windows: commercial & residential work. **Grabill Fine Wood Windows and Doors**

1166. Hardware — Manufacturer of hardware & accessories: doors, furniture, objects d'art & baths; line of facuets in many unusual shapes. **Guerin, P.E.**

1406. Landmark-Approved Wood Windows — Custom fabricator of landmark-approved wood windows: all wood species & all types of glass. **Heights Woodworking**

9710. Heavy Commercial Metal Windows — Supplier of aluminum architectural replacements: historic & vandal-resistant; projected, casement, sliding, single- & double-hung; true & applied muntins. **Heritage Window & Door**

3570. Custom Doors & Entryways — Manufacturer of circular moldings; interior & exterior applications; historic restoration work. **Historic Doors By Hendricks Woodworking**

9440. Specialty Glass — Supplier of glass; prismatic, translucent, textured, stained & hand-blown glass. **Hollander Glass Central**

1096. Antique Hardware — Supplier of hardware: doors, hinges & rare & ornate hardware; antique (1860s-1930s). **House of Antique Hardware**

909. Glass Interior Storm Windows — Manufacturer of easy-to-install, custom glass interior storm windows for energy conservation. **Innerglass Systems**

1240. Shutter Hardware — Supplier of shutter hinges, shutter dogs (holdbacks), shutter bolts & shutter ring pulls. **James Peters & Son**

1409. Wood Windows & Doors — Custom fabricator of windows & doors; all shapes & sizes; all glazing options with wood bead inside &/or putty glaze. **KSD Custom Wood**

Custom-Forged Hardware — Full-service blacksmithing shop; hardware, fireplace tools & more; repair & restoration; custom. Call 828-667-8868 for more information. **Kayne & Son**

4573. Custom Wood Doors & Entries — Custom designer of wood doors in Honduras Mahogany; full range of glazing options. **Kingsland Co.**

953. Door Hardware — Supplier of Victorian & traditional door & cabinet fittings, bathroom fixtures, weathervanes & wrought-iron hardware. **Knobs 'N Knockers**

740. Custom Wood Doors — Manufacturer of wood doors: traditional Southwest & other antique styles. **La Compania Antigua**

1415. European-Style Wood Window Systems — Manufacturer of windows in West Coast Douglas fir; double & secondary weather stripping; metal cladding; large sizes & innovative operating models. **Loewen Windows**

7600. Door & Window Hardware — Exclusive importer of traditional house hardware; over 21,000 items. **Maguire Iron**

8005. Entryway Doors — Custom fabricator of entryway doors; made of charred steel-brushed alder; adorned with bronze masks of Demetra & Hercules & bronze escutcheons. **Mahlia Collection**

1263. Wood Windows & Doors — Major supplier of wood and clad windows & doors for renovation, restoration & historically inspired new construction; more than 11,000 standard sizes & unlimited custom sizes. **Marvin Windows**

Architectural Trim — Manufacturer of hand-crafted custom-made 18th-century architectural trim: Colonial doors & windows, shutters, wall paneling, pediments & more. Call 860-633-2383 for more information. **Maurer & Shepherd, Joyners**

964. Aluminum Windows — Manufacturer of DeVAC aluminum windows: historic restoration & preservation; will replicate any size, shape, or design. **Mon-Ray, Inc.**

1042. High Performance Glazing — Manufacturer of windows to match any shape or size; interior & exterior applications for existing operable or fixed window openings. **Mon-Ray, Inc.**

319. Pewter & Bronze Hardware — Supplier of decorative pulls, knobs, furniture & cabinetry hardware; Victorian, Art Nouveau & Art Deco. **Notting Hill Decorative Hardware**

5110. Pintles, Hinges & Shutter Holdbacks — Manufacturer of forged hardware: forge or painted finishes. **Old Smithy Shop**

1570. Traditional & Contemporary Hardware — Supplier of door & other hardware; 100 styles on display. **Old and Elegant Distributing**

3003. Windows & Millwork — Supplier of windows for churches & religious buildings. **Parrett Windows**

1520. Hardware Maker & Metal Fabricator — Manufacturer of cast-bronze hardware & hot-forged, hand-wrought iron: doors, gates, staircases, lighting & more. **Patten Design**

6001. Traditional Window & Door Hardware — Manufacturer of door & window hardware: pulleys, weights & more; manufactured to precision specs. **Phelps Company**

Screen Door Hardware — Manufacturer of traditionally styled screen door knobs & latches: solid bronze screening. Call 802-257-4314 for more information. **Phelps Co./Architectural Specialties**

3055. Windows — Manufacturer of vinyl-clad wood windows: natural oak, pine & maple; commercial & residential use. **Pollard Windows**

1048. Counterbalances — Manufacturer of counterbalances for doors, windows, hinged panels, and other applications; free brochure. **Pullman Mfg. Corp.**

981. Metal Casement Windows — Supplier of metal casement, vent, hopper & fixed windows; doors & entrances: storefront systems; aluminum extrusions. **REBCO, Inc.**

744. Window Restoration — Restorer of historic windows: wood & metal windows; replication, refurbishment, hardware restoration & more.

9210. Custom Windows & Doors — Architectural millwork shop; custom windows & doors for restoration & new construction; formerly "Michael Reilly Design." **Reilly WoodWorks**

8910. Window Repair — Shop or in-situ window restoration & repair. **Restoration Works, Inc.**

1411. Wood Windows & Doors — Custom fabricator of reproduction mahogany & pine windows & doors. **River Valley Woodwork**

3590. Steel Casement Window Repair — For residential, commercial & historic buildings. **Seekircher Steel Window Repair**

1371. Stained Glass & Doors — Manufacturer of doors & glass: beveled-, stained- & leaded-glass doors; glass sidelites & entryways; custom. **Sheppard Doors & Glass**

1412. Custom Historic Sash — Custom fabricator of wooden sash & windows; all styles; traditional joinery, weight-and-pulley balances & restoration glass. **Smith Restoration**

1095. Architectural Wood Doors — Supplier of hand-assembled all-wood panel doors; custom-built to client's specs from standard designs & built to drawings. **Somerset Door & Column**

115. Imported Hardware — Importer & supplier of hardware: iron, brass & bronze; many rustic styles. **The Golden Lion, Inc.**

8330. Steel Windows & Doors — Supplier of casements, awnings, hoppers & three types of doors. **Torrance Steel Window Co.**

8167. Wood Doors & Windows — Manufacturer of wood doors & windows; can also duplicate existing work for residential or commercial applications. **Versatile Sash & Woodworking**

1391. Hardware — Supplier & distributor of hardware: door knobs & escutcheons, hinges, box locks, slide bolts, mortise locks & more. **Whitechapel Ltd.**

9640. Wood Doors & Windows — Millwork services: restoration, custom design & production & other services; recreation of historic windows & doors. **Wood Window Workshop**

8430. Specialty Wood Windows — Supplier of palladians, straight & fan transoms: single-, double- & triple-glazed, thin muntins; solid-wood doors with insulating core. **Woodstone Co.**

8011. Custom Wood Windows — Manufacturer of custom wood windows, frames, components & interior & exterior trim: historic replacement windows. **Woodward Thomsen**

6920. Landmark Window Work — Manufacturer of windows & doors: monumental sizes; special shapes & glazing options; duplication capabilities. **Zeluck Doors and Windows**

FLOORS, WALLS, CEILINGS, FINISHES & MOLDED ORNAMENT

8920. Tin Ceilings — Supplier of 26 Victorian & Art Deco tin-ceiling patterns: 2x8-, 2x4- & 2x2-ft. panels for nail-up or lay-in; 13 cornices; pre-cut miters; 2x2-ft. center medallions. **AA-Abbingdon**

1372. Wallpaper — Manufacturer & custom fabricator of historically accurate block-printed wallpapers. **Adelphi Paper Hangings**

2870. Antique Wood Flooring — Supplier of antique flooring & building materials: longleaf heart pine & tidewater cypress. **Albany Woodworks**

1324. Ceramic Studio — Custom fabricator of relief tile, fountains & architectural ceramics; stock & custom; traditional styles. **Alchemie Studios**

70. Solid Wood Registers — Supplier of wood registers: 10 standard sizes; variety of species; adjustable damper systems. **All American Wood Register Co.**

1087. Architectural Ornament — Distributor of architectural ornament: 52 lines encompassing over 10,000 stock & custom products for interiors & exteriors; range of materials. **Architectural Distributors, Inc.**

1323. Flooring & Millwork — Manufacturer of wide-plank flooring, doors, entries, paneling, moldings, columns, balustrades, stairways & cabinetry. **Architectural Timber & Millwork**

1182. Tropical Hardwood Flooring — Manufacturer & importer of tropical hardwood flooring: wide board, strip, random width, parquet, antique wood; various species; 100% reclaimed sources. **AsiaRain Jungle Hardwoods**

8000. Antique Flooring & Beams — Manufacturer of antique flooring: chestnut, oak & pine from resawn material; flooring, beams, paneling, molding & wainscoting. **Authentic Wood Floors, Inc.**

5580. Custom Wood Flooring — Manufacturer of paneling & flooring: white pine, red oak, heart pine, Southern yellow pine & cherry. **Carlisle Restoration Lumber**

190. Tin Ceilings — Manufacturer of tin ceilings in 18 patterns: for Victorian homes & commercial interiors; Victorian to Art Deco styles; several exclusive patterns; cornices in 4-ft. lengths. **Chelsea Decorative Metal Co.**

8780. Antique Wood Flooring — Original antique & remilled flooring from antique recycled lumber: chestnut, oak, white pine, yellow pine & sugar pine. **Chestnut Specialists**

Antique-Flooring Source — Wide boards: chestnut, oak, pine, hemlock & other wood; flooring, paneling & more. Call 860-672-4300 for more information. **Chestnut Woodworking**

1420. Ceramic Tile — Supplier of rustic ceramic-tile floors: natural-stone tones & weathered appearance. **Classic Ceramic Tile**

322. Flooring — Supplier of plank, parquet, inlaid & antique flooring & prefinished cork flooring. **Cordts Flooring Co.**

4320. Extra-Wide Boards — Supplier of pine boards for flooring or paneling from 12- to 24-in. widths; wide oak flooring from 4- to 9-in. widths; custom moldings & millwork; dual wainscoting; kiln dried. **Craftsman Lumber**

210. Molded Ornament — Supplier of molded ornament: plaster & compo.; variety of historical styles; wood mantels. **Decorators Supply**

1980. Gold-Leaf Products — Supplier of genuine & imitation gold-leaf materials: interior & exterior uses. **Easy Leaf Products**

1401. Earth-Friendly Wood Flooring — Reclaimed/rustic wood flooring & wood from forests classified as sustainably harvested by the Forest Stewardship Council. **EcoTimber**

2460. Historic Painting — Painting studio: trompe l'oeil, graining & gilding; research & analysis; extensive restoration & original design experience. **EverGreene Painting Studios**

2890. Molded Ornament — Fine period & custom ornament: cornices, medallions, sculpture, niches, capitals, brackets & domes; 2,300 antique molds; routinely handles large jobs. **Felber Ornamental Plastering**

1960. Plaster Ornament — Manufacturer of ornament in fiber-reinforced plaster from Turn of the Century molds: custom duplication of ornament from your sample. **Fischer & Jirouch Co.**

339. Moldmaking Materials — Supplier of mold-making materials & metal-casting services. **Freeman Manufacturing & Supply**

8045. Ornamental Molded Gypsum Products — Supplier of cornice moldings, pilasters, column capitals, medallions & molded gypsum products. **Georgia-Pacific / GP Gypsum**

7153. Armored Interior Sheathing Panels — "DensArmor" interior panels are a major departure from traditional wallboard; available with protective glass fiber mat on one or both sides. **G-P Gypsum Corp.**

8980. Architectural Gilding — Exterior & interior gilding & copper-patination: national & international projects; steeplejack services. **Gilders' Studio, Inc.**

5040. Large Wood Floor Grates — Supplier of wood registers, grilles & grates: unfinished or prefinished. **Grate Vents**

966. Tin Ceilings & Walls — Bright tin, copper, brass, chrome, & pewter finishes on 2 x 2 panels; fitted moldings and cornices available with safety hems. **Greer's Tin Ceilings, Walls & Unique Metalwork**

802. Ornament & Ceiling Elements — Manufacturer of plaster ceiling medallions, niches, moldings, coffers, and more; stock and custom work. **Hyde Park Fine Art of Mouldings**

5100. Decorative Painting — European-trained master painter heads studio: major projects all across the country; restoration & new commissions. **John Canning Studios**

5056. Slip-Resistant Application — Supplier of special formulation for making floors slip-resistant; applied with an applicator gun; for use on all types of flooring except plastic. **K-Grip North America**

4910. Historic Pigments — Supplier of earth pigments & colors to recreate the look of historic finishes. **Kremer Pigments**

810. Interior & Exterior Gold Leaf — Supplier of gold leaf: interior & exterior gilding; silver leaf, gold size, tools & imitation gold leaf. **Leo Uhlfelder Co.**

500. Clay Flooring Tile — Supplier of custom-matched clay tile & pavers: glazed & unglazed floor, wall & counter tiles; residential & commercial. **London Tile Co.**

1014. Tin Ceilings — Supplier of antique/classic reproduction tin-ceiling panels: nail-up & easy-access suspended ceiling; custom work. **M-Boss, Inc.**

24. Ceramic Tile — Manufacturer of raised-relief & silkscreened ceramic tiles: in 150 color finishes; for bathrooms, kitchens, fireplaces, door frames, foyers & garden rooms; special edges & custom designs. **M.E. Tile Co.**

798. Handmade Art Tile — Spanish/Mediterranean, Moorish, Pueblo Deco, & other custom and reproduction tile: porcelain hardware, stone for floors & walls. **Malibu Art Tile & Stone**

703. Architectural Elements — Supplier of cornices, balustrades, columns, capitals, brackets & more: polymers & cast stone. **Manor Style, Inc.**

570. Tile & Ceramics — Custom fabricator of tile & glazes: Batchelder & Malibu tile reproductions; 10 years' experience. **Native Tile and Ceramics**

793. Ceramic Tile — Supplier of antique tile: custom color matching & reproductions; new tile designs— Arts & Crafts-influenced relief tile. **North Prairie Tileworks**

3150. Copper Coatings & Patinas — Manufacturer of four finish colors, including verdigris green: can be applied to copper or any metal & to any interior or exterior material. **Metallic Coatings & Patina Finishes**

2682. Arts & Crafts Tile — Manufacturer of hand-made architectural & decorative tile: traditional Arts & Crafts-style glazes; custom designs & fabrication from historic molds. **Pewabic Pottery**

6360. Moldmaking & Casting Materials — Supplier of rubbers for flexible molds: brush-on & pourable; fast durable molds for plaster, cements & resins; variety of casting resins. **Polytek Development Corp.**

2880. Gold-Leaf Supplies — Gold leaf in booklets or rolls, oil sizes, Kolner burnishing clays for water gilding, imitation gold & aluminum leaves & rolls. **Sepp Leaf Products**

650. Architectural Molding Materials — Supplier of molding compounds can be used on-site & are readily pourable or brushable: for painting onto vertical surfaces. **Smooth-On**

8450. Polymer Ceiling Tiles — Supplier of polymer ceiling tiles that resemble tin ceilings & fit into a suspended-grid system: various colors & patterns. **Snelling's Thermo-Vac, Inc.**

5620. Patinas & Chemicals — Supplier of chemicals for the coloring of metals: large selection of colors. **Sur-Fin Chemicals**

1380. Tung Oil — Supplier of tung oil. **Sutherland Welles**

2490. Gilding Materials — Supplier of gold & silver leaf: in surface, glass, patent & roll gold forms; historic restoration & decoration; 100-year-old company. **Swift & Sons**

5600. Wide-Plank Flooring — Manufacturer of stair parts, molding & associated millwork products: new & antique. **The Woods Co.**

2846. Encaustic Tile — Supplier of floor & wall tile: genuine encaustics & reproduction encaustic tile; Victorian styles. **Tile Source**

2221. Decorative-Painting Studio — Restorer of architectural elements & faux finishes: gold leafing, murals, woodgraining & marbleizing. **Touch's Of Illusions**

520. Sheetmetal Ceilings & Ornament — Manufacturer of ornamented metal ceilings: original Turn of the Century dies; exterior cornices & hundreds of sheetmetal ornament. **W.F. Norman**

8900. Gold & Silver Leaf — Supplier of gilding supplies: gold, silver & imitation leaf; packs, rolls & books. **Wehrung & Billmeier**

SPECIALTIES

1282. Library Ladders — Manufacturer of rolling-track hardwood ladders: variety of hardware & finish options. **Alaco Ladder**

8118. Bird-Control Systems — Designer & installer of non-lethal, building-friendly bird-control systems: horizontal-wire electric barriers, customized wire grids & more. **Avian Flyaway, Inc.**

8190. Bird Control Products — Nationwide network of bird-control experts & certified contractors. **Bird Barrier America**

3230. Bird & Pest Repellants — Manufacturer of non-toxic chemical roost-inhibitors, visual & sound pest-inhibitors, barriers & more. **Bird-X**

7130. New & Old Bells — Supplier & buyer of cast-bronze bells: pre-owned bells for churches, towers & more. **Brosamer's Bells**

2730. The Steeple People — Custom fabricator of cupolas, domes, balustrades, steeples & clocks. **Campbellsville Industries**

9100. Carved-Stone Mantels — Skilled carvers & sculptors: statuary, ornament, mantels, entrances & architectural moldings; reproductions in marble, limestone & bronze. **DMS Studios**

3220. Historic & Architectural Signage — Woodcarvers: gilding & restoration of antique carving; hand carved. **Dow Woodcarving**

4290. Flagpoles, Weathervanes & Cupolas — More than 50 stock weathervanes: stock & custom designs. **Eder Flagpole Company**

8174. Hand-Crafted Mantels — Custom fabricator of mantels hand-crafted from solid hardwoods: custom- & ground-shipped unfinished & ready for paint or stain; precast mantels. **Forshaw of St. Louis**

9660. Full- & Swell-Bodied Weathervanes — Hand-formed weathervanes: steel & hand-hammered copper; stock & custom; gold-leaf. **Ives Weathervanes**

8730. Historic Markers & Castings — Manufacturer of ornamental castings: many patterns & styles; cast aluminum & cast bronze; custom work. **Lake Shore Industries**

5390. Architectural Mantels — Supplier of fountains, columns, moldings, benches & more: French tradition, from Gothic to contemporary. **Limestone Concept**

452. Fiberglass Ecclesiastical Products — Manufacturer of baptistries, steeples, spires & crosses: church lighting. **Little Giant Mfg. Co.**

1356. Steeples — Manufacturer of pinnacles, spires, towers & cupolas: variety of styles & designs. **Munns Manufacturing**

1264. Cupolas, Vents, Louvers — Manufacturer of finials, spires & weathervanes: many shapes & sizes; stock & custom. **New Concept Louvers**

370. Pigeon Control — Supplier of roost eliminators: inconspicuous stainless-steel needles that eliminate roosts without harming the building; humane & practical. **Nixalite**

282. Cast-Stone Mantels — Manufacturer of a new line of fireplace mantels: technical assistance for installations. **Old World Stoneworks**

3940. One-Of-A-Kind Weathervanes — Supplier of full & 3/4-bodied repousse vanes: 23k gold leaf optional. **Travis Tuck, Metal Sculptor**

963. Marble Mantels — Supplier of architectural mantels: hand carved in natural marble. **Unique Mantel**

5043. Custom Weathervanes — Custom fabricator of freehand-hammered weathervanes: copper, brass & stainless steel; one-of-a-kind pieces. **Weathervane Sculpture**

SCULPTURE, ART GLASS, MURALS & FURNISHINGS

5306. Conservation Services — Conservator & restorer of art & architecture: original art, murals & historic renovation. **Albert Michaels Conservation**

1009. Carved Architectural Elements — Replications of carving & sculpture; garden elements in any material & size. **B&H Art in Architecture, Ltd.**

237. Forged Furniture & Accessories — Manufacturer of hand-forged beds, tables, lamps & other furnishings: for hotels, lobbies, commercial & residential spaces. **Christopher Thomson Ironworks**

1380. Monumental Greek & Roman Statues — Classical statues in cast-stone; full scale or larger-than-life figures. **Classical Works Art Studio**

1399. Art Glass — Art Glass Studio: glass & mirror beveling & polishing; stained and leaded glass; hand-beveling & engraving. **Curran Glass Studio**

335. Molded Architectural Elements — Custom fabricator of signage, sculpture & architectural elements: Forton, GFRC, plaster & polystyrene foam; bonded metals & metallic finishes. **DJStudios**

262. Carved Stone Sculpture — Skilled carvers & sculptors: statuary, ornament, mantels, entrances & architectural moldings; reproductions in marble, limestone & bronze. **DMS Studios**

2527. Trompe L'Oeil Murals — Painting studio: trompe l'oeil murals for the hospitality market. **Guided Imagery**

5230. Figurative Sculpture — Figurative sculptor & portrait artist: classical & Renaissance work; monumental works. **Alan LeQuire**

4730. Wheel-Cut Art Glass — Custom fabricator of wheel-cut glass: residential & commercial interiors. **Lehmann Studios**

1185. Paint Conservation & Restoration — Painting studio: historic paint conservation & restoration. **Restoration Associates**

6240. Stained Glass — Designer, fabricator & restorer of stained-, leaded-, faceted-, beveled- & etched-glass panels. **Rohlf's Stained Glass Studio**

764. Bronze Sculpture & Garden Figures — Supplier of allegorical figures in bronze: portrait busts & monuments; commissioned work. **Tuck Langland**

GAZEBOS, TIMBER FRAMES, CONSERVATORIES & SPECIAL CONSTRUCTION

3290. Timber-Framing — Survey, design, structural, ornamental fabrication, rigging & installation services for historic structures. **Architectural Timber & Millwork**

645. Traditional Timberframes — Builder of mortise-&tenon timber-frame homes, churches, bridges & more. **Craftwright, Inc.**

1870. Conservatories — Manufacturer of wooden-framed conservatories: single-slope, gable, hip/valley & octagonal shapes; lantern roofs & pyramidal skylights. **Glass House**

Timber Frames — Designer, manufacturer & builder of new oak timber-frame homes, Great Rooms, roof systems & log homes. Call 800-247-4442 for more information. **Hearthstone Inc.**

6860. Bespoke Conservatories — Designer & builder of English conservatories: custom-built & hand-crafted; glass, wood & metals; attention to details— windows, roof-line & fine materials. **Oak Leaf Conservatories**

Hobby & Commercial Greenhouses — Manufacturer of conservatories, solariums & greenhouses: English Victorian styles; conservatory renovation. Call 800-287-4769 for more information. **Private Garden**

1403. New Timber — Supplier of large, new timbers for timber framing: up to 24 x 30-in. & 50 ft. long; fir & pine flooring. **Reliance Specialty Building Products**

378. Custom Conservatories — Fabricator of sunrooms, conservatories & greenhouses: redwood & mahogany; delivered pre-assembled; solid-brass hardware; double-insulated glazing & other glazing options. **Renaissance Conservatories**

5010. Rustic Garden & Woodland Structures — Designer & manufacturer of Eastern red cedar creations in the Romantic tradition: benches, arbors, bridges & more. **Romancing The Woods**

134. Timber Framing & Wood Supply — Supplier of kiln-dried Eastern white pine: 14- to 20-in. widths standard. **South County Post & Beam**

8270. Period Conservatories & Glass Houses — Manufacturer of individually designed, hand-crafted & installed period conservatories & glass houses. **Tanglewood Conservatories**

8370. Post & Beam Homes — Catalog of 60+ home plans, photos, home profiles, articles on post-&beam framing, how-to pieces on design & decoration, detailed specifications & local dealer. Call 800-636-2424 for more information. **Timberpeg**

8540. Timber Frames — Fabricator of traditional timber-framed structures: many wood species; reclaimed timbers; nationwide. **Vermont Timber Frames**

1063. Wood Bridges — Designer & manufacturer of timber & steel bridges: for vehicular & pedestrian use. **Wheeler Consolidated**

ELEVATORS, LIFTS & DUMBWAITERS

1260. Elevators & Dumbwaiters — Supplier of residential elevators & residential/commercial dumbwaiters: painted glass; brass handrails; inlaid flooring. **Waupaca Elevator**

PLUMBING, BATH & HEATING

5860. Victorian Hardware & Bath Accessories — Supplier of Turn of the Century door hardware & brass bathroom fixtures & accessories. **Bathroom Machineries**

1725. Victorian Bathroom Fixtures — Supplier of antique & reproduction clawfoot tubs, high-tank toilets, pedestal sinks & brass fixtures. **Bathroom Machineries**

LIGHTING & ELECTRICAL

7850. Motorized Light Lift — Manufacturer of light lift: for chandeliers & other fixtures; allows up to 300-lb. fixtures to be raised & lowered for easy maintenance. **Aladdin Light Lift**

517. Lighting Restoration — Designer & fabricator of lighting: antique fixtures restored; retrofitting with more energy-efficient bulbs. **Aurora Lampworks**

60. Reproduction Lighting — Manufacturer of hand-crafted 18th- & 19th-century lighting fixtures: chandeliers, sconces & table lamps in solid brass. **Authentic Designs**

7660. Historic Lighting — Lighting reproductions from 18th- through early-20th centuries: residential, commercial & institutional; standard & custom designs. **Ball & Ball**

8890. Period Lighting — Solid-brass Mission/Prairie & Victorian lighting: variety of finishes; original prismatic exterior lights in many sizes. **Brass Light Gallery**

1057. Ceiling Fans — Supplier of ceiling fans & accessories: many styles & brands. **Brasswinds Southwest**

5970. Victorian Lighting — Manufacturer of hand-crafted, solid-brass lighting: Victorian & early-20th century Art Deco & Craftsman collection; gas & electric chandeliers, sconces & lamps. **Classic Illumination**

Lighting & Weathervanes — Supplier of interior & exterior lighting: sconces in Leadtex for the tin look in old designs; copper weathervanes & cupolas. Call 800-281-9798 for more information. **Copper House**

Reproduction Colonial Lighting — Visit the website www.jrcoopersmythe.com or call 508-869-2769 for more information. **Josiah R. Coppersmythe**

313. Decorative Lighting — Custom fabricator of lighting: traditional & contemporary styles; historic restoration & reproduction of period fixtures. **Crenshaw Lighting**

2767. Vintage European Lighting — Manufacturer of imported solid cast-metal lanterns, lamps, garden furniture, bollards, signs & more. **Dahlhaus Lighting, Inc.**

809. Custom Lighting — Custom fabricator of hand-crafted fixtures: wood, tin, brass & copper; Colonial, traditional & transitional lighting. **Deep Landing Workshop**

1195. Historic Lighting — Supplier of interior & exterior lighting: gas & electric; solid brass & bronze; traditionally styled. **Distinguished Home Lighting, Ltd.**

2040. Electric Candles & Flame-like Bulbs — Supplier of electric wax candles, candle covers & bulbs: for antique, traditional & other types of lighting fixtures. **Elcanco, Ltd.**

9550. Belt-Driven Ceiling Fans — Manufacturer of nostalgic-style fans for commercial interiors, porches & residences: interior lighting/fan combos & other styles. **Fanimation**

5034. Solid-Brass Lighting — Manufacturer of over 30 different sizes of hand-crafted chandeliers & interior & exterior lanterns. **Fourteenth Colony Lighting**

2535. Lighting & Metalwork — Manufacturer of custom lighting metalwork: any style. **G Lighting**

483. Custom Lighting — Manufacturer of hand-crafted lighting: traditionally styled; iron & brass. **Handelman Studios**

3440. Landscape Lighting — Supplier of titanium/aluminum fixtures & bollards: residential & commercial uses. **Hanover Lantern**

8041. Forged Lighting — Blacksmith supplies a variety of forged lighting: chandeliers, wall sconces, pendants & exterior lighting. **Hans Duus Blacksmith**

9130. Lighting Fixtures & Accessories — Manufacturer of cast light fixtures, posts, bollards, street furniture, antique fence posts & street clocks: custom sand casting. **Herwig Lighting**

680. Lighting Fixtures — Manufacturer of interior & exterior lighting fixtures: post lights, lanterns & garden lighting: cast aluminum, wrought iron & brass. **Hinkley Lighting**

1210. Custom Casting & Lighting — Custom fabricator of cast architectural ornament: iron, aluminum & bronze; works from your specs or will create designs for your approval. **Historical Arts & Casting**

2853. Lighting — Manufacturer of Early American lighting: solid copper & solid brass; log cabin-style lighting. **Hutton Metalcrafts**

1239. Lighting — Custom fabricator of historic lighting fixtures: interior & exterior; chandeliers, flush-mount ceiling models, lanterns, pendants, sconces & more. **Lantern Masters**

1410. Light Fixtures — Manufacturer of lamps & lanterns: Classic, Contemporary, Gothic & other styles; energy-efficient options; repairs & refinishing. **Mills Architectural Lighting**

1045. Glass Lighting Shades — Importer of glass shades from France: wide range of shapes & styles; some custom projects. **Otteson Co.**

1402. Pendants & Sconces — Manufacturer of commercial lighting fixtures: pendants & sconces; formed & cast metal with blown, slumped & cast glass. **Pam Morris Design**

1186. Lighting — Supplier of chandeliers & other interior lighting. **Pettigrew Associates.**

430. Vintage Lighting — Supplier of chandeliers & sconces: Victorian & Turn of the Century; gas, oil & electric; antique & reproduction fixtures; replacement parts & glass shades. **Roy Electric**

833. Custom & Colonial Lighting — Supplier of Colonial lanterns & lighting: custom lanterns to your specs. **Shelburne Lighting & Metal Crafts**

6190. Period Lighting — Supplier of hand-crafted brass reproduction ceiling fixtures, sconces & lamps: gas, electric & combination fixtures; 1880s to 1930s styles; custom work. **St. Louis Antique Lighting Co.**

4090. Exterior Lanterns — Hand-crafted custom-built copper lanterns & posts: emphasis on Early American designs; willing to undertake unusual custom work in copper. **Ward Industries**

316. Belt-Driven Ceiling Fans — Designer & manufacturer of hand-cast ceiling fans with wooden blades: belt-driven model, classic two-blade design & other designs. **Woolen Mill Fan Co.**

ARCHITECTURAL ANTIQUES & SALVAGED BUILDING MATERIALS

2736. English Architectural Antiques — Supplier of antiques: English mantels, paneling, art glass, fireplaces, doors, lighting & garden ornament; 5-floor mill complex. **Andy Thornton Architectural Antiques**

893. Architectural Antiques — Supplier of mostly Victorian-era antiques: plumbing, hardware, lighting, columns, doors, windows, mantels & more. **Architectural Antiquities**

3950. Antique Building Materials — Supplier of old log houses, floor boards, barn boards, antique glass, hardware, doors & hand-hewn logs: boards 4- to 16-in. **Sylvan Brandt**

7480. Wide-Board Antique Flooring — Manufacturer of flooring, barnwood & beams: furniture made from 19th-century barnwood. **Country Road Associates, Ltd.**

112. Resawn Planks & Beams — Manufacturer of flooring, paneling & custom millwork: from recycled timbers; shipped nationwide. **Duluth Timber Co.**

1177. Antique Wood — Manufacturer of antique lumber: wide board & random width; chestnut, maple, oak, heart pine, hickory, fir & white pine. **The Woodshop of Texas**

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PRG www.prginc.com

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Am-Dia www.victorianmarketplace.com
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Aquarius Waterworks www.aquariuswaterworks.com
Architectural Pottery www.archpot.com
Authentic Provence www.authenticprovidence.com
Bamboo & Rattan Works www.bamboobanddratton.com
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Bison Screw Jack Co. www.bisonus.com
Cantera Especial www.cantera-especial.com
Columbia Equipment Co. www.columbiaequipment.com
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Elderhorst Belis www.elderhorstbelis.com
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EnviroSpec www.envirospecinc.com
FAAC International www.faacusa.com
Florentine Craftsmen www.florentinecraftsmen.com
Haddonstone (USA), Ltd. www.haddonstone.com
Hennessy House Wooden Flag Poles www.woodenflagpoles.com
Kaleth Design Collection Stone www.kalethdesign.com
King Luminaire/The Stress Crete Group www.kingluminaire.com
Lynch & Sons www.klynchandsons.com
Mahvelous Mailboxes www.mailboxsuperstore.com
Maine Millstones www.maineimillstones.com
Master-Halco www.fenceonline.com
Mel Northey Co. www.melnorthey.com
Nichols Bros. Stoneworks, Ltd. www.nicholsbros.com
Petersen Mfg. Co. www.petersenmfg.com
Private Garden Greenhouse Systems www.private-garden.com
Quarry Line www.quarryline.com
Romancing The Woods www.rtw-inc.com
Seibert & Rice www.seibert-rice.com
Stone Forest www.stoneforest.com
Stonex Cast Products www.stonexonline.com
Superior Aluminum Products www.superioraluminum.com
Sycamore Creek Handcrafted Copper www.sycamorecreek.com
Texas Metal Industries www.txmetal.com
Trellis Structures www.trellisstructures.com
Verdin Co. www.verdin.com
Vicenza Stone Sculpture www.vicenzastone.com
Wausau Tile www.wausautile.com
Wayside Fence Co. www.waysidefence.com
Whitacre-Greer www.wgpaver.com

STONE, BRICK & MASONRY

Accent Limestone & Carving www.accentlimestone.com
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ArmaKlean Co. www.armakean.com
Boral Bricks www.boralbricks.com
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Castaic Brick Mfg. Co. www.castaicbrick.com
Cathedral Stone Products www.jahnmortars.com
Champlain Stone, Ltd. www.champlainstone.com
Cintec America www.cintec.com
Concrete Designs www.concrete-designs.com
Diedrich Technologies www.diedrichtechnologies.com
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Edison Coatings www.edisoncoatings.com
Fairplay Stonecarvers www.fairplaystonecarvers.com
Fieldstone Center www.fieldstonecenter.com
Gladding, McBean www.gladdingmcbean.com
Jean Pierre Jacquet Stonecarver www.handcarvedstone.com
Mandish Research International www.mandish.com
Melton Classics www.meltonclassics.com
Old Carolina Brick Co. www.handmadebrick.com
Polymeric Systems www.polymericsystems.com
Stone Legends www.stonelegends.com
StoneSculpt www.customstonecarving.com
Thomann-Hanry www.gomme.com
THR Cast Stone & GFRC www.thrcaststone.com
Thunderstone www.castone.com
Traditional Cut Stone www.traditionalcutstone.com
Trow & Holden www.trowandholden.com

ORNAMENTAL METALWORK

Allen Architectural Metals www.allenmetals.com
Architectural Grille www.archgrille.com
Architectural Iron Designs www.archirondesign.com
Arco Mfg. Co. www.arcoimg.com
Artist in Iron www.artistiniron.com
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Barker Metalcraft www.radiatorcover.com
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D.J.A. Imports, Ltd. www.pietrolasans.com
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Deggingers Foundry www.deggingers.com
Fine Architectural Metalsmiths www.iceforge.com
Frank Allart & Co., Ltd. www.allart.co.uk
Frank Morrow Co. www.frankmorrow.com
Gaby's Shoppe www.gabys.com
Harrington & King Perforating Co. www.hkperf.com
Heather & Little, Ltd. www.heatherandlittle.com
Indital, USA www.indital.com
Jefferson Mack Metal www.mackmetal.com
John Graney Metal Design www.johnganeymetaldesign.com
Johnson Pattern & Machine Works www.johnsonpattern.com
Kees Inc. Architectural Division www.kees.com
King Architectural Metals www.kingmetals.com
Leonard Metal Art Works www.grand-stairs.com
Liberty Brass Turning Co. www.libertybrass.com
Liberty Ornamental Products www.bryandecast.com
Monarch Products Co. www.monarchrad.com
Mueller Ornamental Iron Works www.ornamentation.net
New Star Brass & Bronze Works www.railingsbynewstar.com
Oakley Steel Products www.oakleysteel.com
Old World Iron www.oldworldiron.com

Olin Wrought Iron www.olinwroughtiron.com
Polymeric Systems www.polymericsystems.com
Regency Railings www.regencyrailings.com
Reggio Register Co. www.reggioregister.com
Robinson Iron Corp. www.robinsoniron.com
Schiff Architectural Detail www.schiffarchitectural.com
Signon USA www.signonusa.com
Steptoe & Wife Antiques www.steptoweife.com
The Wagner Companies www.rbwagner.com
Vulcan Supply Corp. www.vulcansupply.com
Wiemann Ironworks www.wiemanniron.com
Xenia Foundry www.xeniafoundry.com

ARCHITECTURAL MILLWORK & COLUMNS

Abatron www.abatron.com
Adams Stair Works & Carpentry www.adamsstair.com
Adriatic Wood www.adriaticwood.com
Agrell & Thorpe, Ltd. www.agrellandthorpe.com
Andy Thornton, Ltd. www.andythorntonltd.co.uk
Architectural Distributors www.archdist.com
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Architectural Fiberglass Corp. www.afcomice.com
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Beech River Mill www.beechrivermill.com
Carlson's Barnwood Co. www.carlsonsbarnwood.com
Chadsworth's 1,800 Columns www.columns.com
Classic Architectural Specialties www.casdesign.com
Colonial Woodworking www.colonial-woodworking.com
Cowls, W.D. www.cowls.com
Cumberland Woodcraft www.cumberlandwoodcraft.com
Custom Wood Turnings www.customwoodturnings.com
Diamond Mfg. www.diamondmfg.com
Enkeboll Designs www.enkeboll.com
Fagan Design & Fabrication www.faganolcolumns.com
Goddard Mfg. Co. www.spiral-staircases.com
Goodwin Associates www.goodwinassociates.com
Harvey Millwork www.harveymillwork.com
HB&G www.hbgcolumns.com
Hotwire Direct www.hotwiredirect.com
Hull Historical Millwork www.hullhistorical.com
Kestrel Mfg. www.dishshutters.com
Kingsland Co. Shutters www.kingsland-shutters.com
Dimitrios Kiltsas, Wood Sculptor www.kiltsas.com
Melton Classics www.meltonclassics.com
Mohamad Wood Turning Co. www.mohamadwoodturning.com
Old World Mouldings www.oldworldmouldings.com
Polymeric Systems www.polymericsystems.com
Schwerdt Mfg. Co., A.F. www.schwerdtcolumns.com
Select Millwork Co. www.selectmillwork.com
Shutter Depot www.shutterdepot.com
Shuttercraft www.shuttercraft.com
Stair Specialist www.stairspecialistinc.com
Sterling Staircase & Handrail www.sterlingstaircase.com
Timberlane Woodcrafters www.timberlane.com
Turnings Unlimited www.turningsunlimited.com
Vintage Woodworks www.vintagewoodworks.com
Warner Bros. Studio www.wbsconstructionservices.com
White River Hardwoods www.mouldings.com
Frederick Wilbur www.fredrickwilbur-woodcarver.com

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American Eagle Roofing / Mayco Mfg. www.mayfieldmfg.com
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C&J Metal Products www.cjmetals.com
Chimney Pot Shoppe www.chimneypot.net
Classic Gutter Systems, LLC www.classicgutters.com
Copper Craftsman www.copper-craftsman.com
Copperworks of Don Miller www.copperworks.com
Durable Slate Co. www.durableslate.com
EJM Copper www.ejmcopper.com
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GT Products www.gtproducts.com
Hans Liebscher Custom Copper www.hansliebscher-copperworks.com
Liberty Cedar www.libertycedar.com
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Ludowici Roof Tile www.ludowici.com
NIKO Contracting Co. www.nikocontracting.com
Northern Roof Tiles Sales Co. www.northernrooftiles.com
Ornametals, LLC www.ornametals.com
Park City Rain Gutter www.pcraingutter.com
Polymeric Systems www.polymericsystems.com
Preservation Products www.preservationproducts.com
Reinke Shakes www.reinkeshakes.com
Roof Tile & Slate Co. www.vermontslate.com
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Tile Roots www.tileroots.com
Vande Hey-Raleigh Mfg. www.vhr-roof-tile.com

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Al Bar-Wilmette Platers www.albarwilmetteplaters.com
Alamo Designs www.grandentrances.com
Allegheny Restoration www.alleghenyrestoration.com
Allied Window www.alliedwindow.com
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Architectural Resource Center www.aresource.com
Ball & Ball Hardware www.ballandball-us.com
Baltica www.baltica.com
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Brandywine Valley Forge www.bvforge.com
Bronze Craft Corp. www.bronzecraft.com
Chautauqua Woods Corp. www.chautauquawoods.com
Ciccone, F.E. & Co. www.door-restoration.com
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Custom Trades International www.customtrades.com
Drums Sash & Door Co. www.drumsashanddoor.com

Englander Millwork Corp. www.engmill.com
Enjo Architectural Millwork www.enjo.com
Fox Steel Company www.foxsteel.com
Gerber Hinge Co. www.gerberhinge.com
Grabill Windows & Doors www.grabillwindow.com
Guerin, P.E. www.peguerin.com
Hahn's Woodworking Co. www.hahnswoodworking.com
Historic Doors By Hendricks www.historicdoors.com
Hollander Glass Central www.hollanderglass.com
House of Antique Hardware www.houseofantiquehardware.com
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Kaylen www.kaylenddoors.com
Kayne & Son Custom Hardware www.customforgedhardware.com
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