

Clem Labine's **TRADITIONAL BUILDING** Historical Products For Today's Professional

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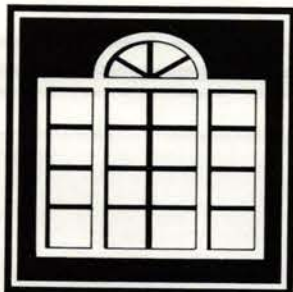
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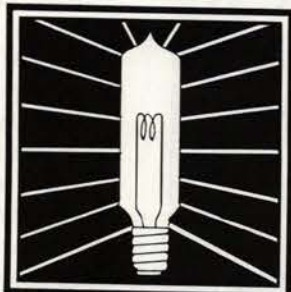
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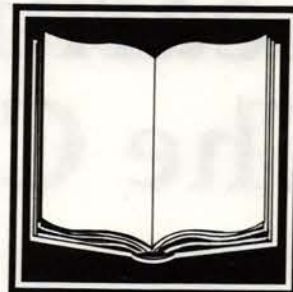
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Cupolas, Steeples, Weathervanes
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Molded Plaster & Lookalikes
Roofing Slates & Tiles

Clem Labine's TRADITIONAL BUILDING

Historical Products For Today's Professional

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A Note To Contributors: TRADITIONAL BUILDING solicits reviews of historical products from building and preservation professionals. A query letter to the editor describing the product and scope of the review is suggested. Photos of outstanding examples of Neo-Traditionalism and Architecture are also sought. While we will be careful of all materials submitted, we cannot be responsible for non-receipt or loss; please keep copies of all materials sent.

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profile

WILBERT HASBROUCK: Learning From The Chicago School

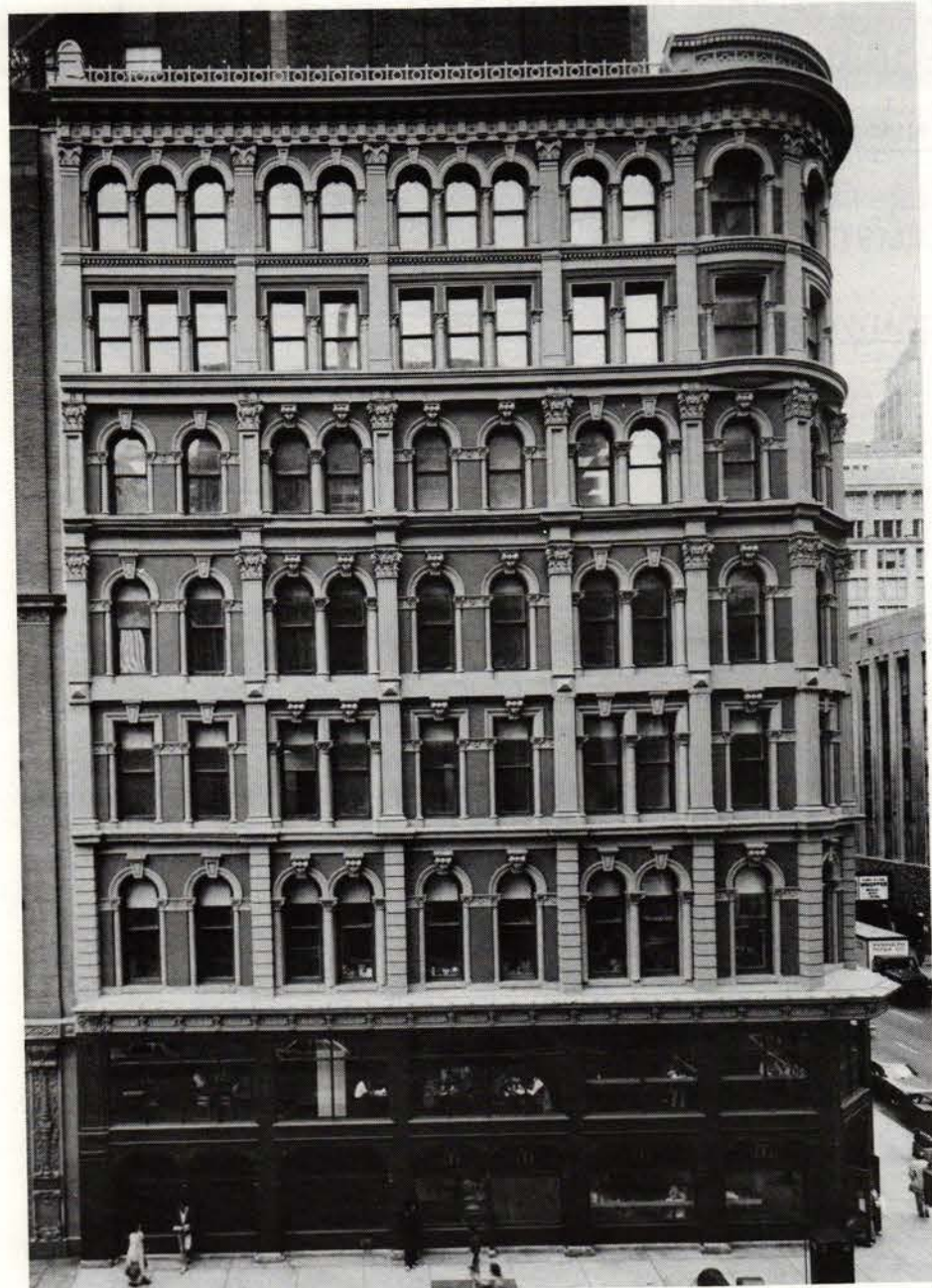
BY EVE M. KAHN

For nearly 20 years, Chicago-based restoration architect Wilbert R. Hasbrouck has worked on buildings by all the local greats: Louis Sullivan, Frank Lloyd Wright, and Burnham & Root. "I've come to feel like they're my partners, like I know them," he says. He feels especially close to Wright, because recently his firm has tackled three projects that Wright undertook eight decades earlier: The 1904 interior renovation of Burnham & Root's 1888 Rookery; the Martin House in Buffalo; and the Dana-Thomas House in Springfield, Ill.

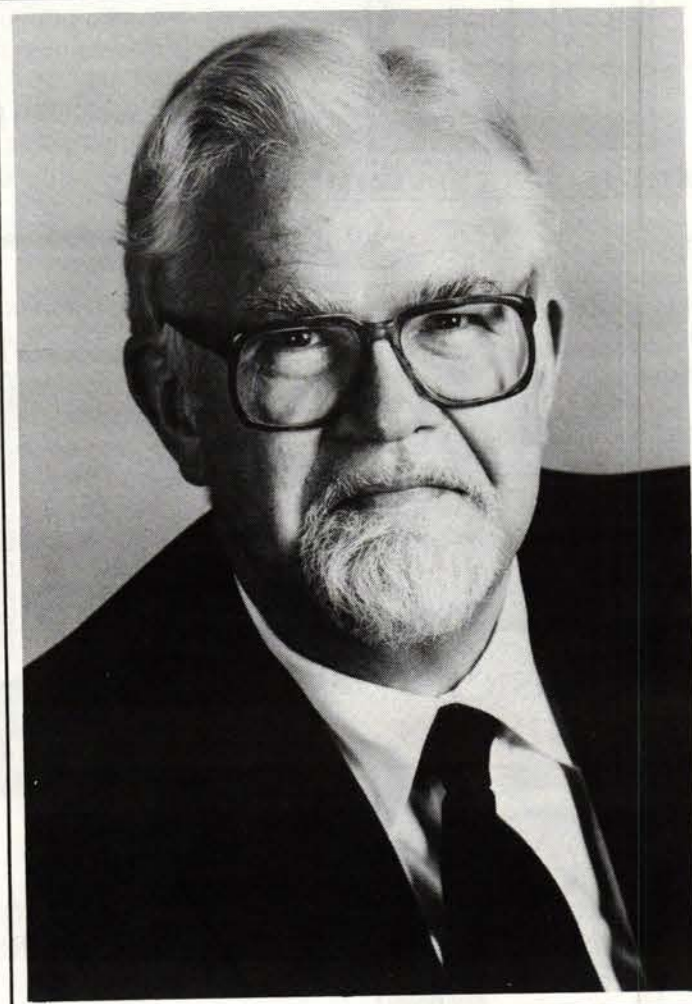
"I've learned a lot about Wright, working on these three," he says. "He was a great designer, of course, and a great manager of people, to get the quantity and quality of work that he did. But he was also a master marketer. I've met 50 original owners of Wright houses, and they all say the same thing: That theirs was Wright's favorite house, and that they really designed it, he just helped. I'd give anything if I could get a client to say that — wouldn't you?"

All modesty aside, Hasbrouck's clients have the right to be almost as pleased as Wright's. Among restoration accomplishments by the firm of Hasbrouck, Peterson, Zimoch and Sirirattumrong: The 1871 Delaware Building — the first office building erected after the Chicago Fire (with the oldest cast-concrete skin in America); the 1885 turreted Dearborn Station in Chicago; and Sullivan's 1911 People's Savings Bank in Cedar Rapids. "Our forte," says James Peterson, Hasbrouck's longtime partner, "is reconciling what a great architect intended with what the current owner wants, without spoiling the building."

The firm attracts business with the principle of "enlightened greed." "I've been criticized a lot for using that phrase," Hasbrouck explains, "but I believe



Located on the Loop, the Delaware Building, the first cast-concrete structure in America, was named a landmark after Hasbrouck restored it. Photo: Ron Gordon



in it. We save buildings by showing owners how, if restoration is done right, it can make a rich man richer. The process may be expensive, but the results are more valuable. We teach owners how to massage the program to fit the building, rather than the other way 'round."

His first job out of Iowa State College's architecture school was with the Illinois Central Railroad, where he soon rose to architectural engineer of the system. "The line ran from New Orleans to Sioux City, with 10,000 buildings along the way, from three-hole outhouses to boxcar manufacturing facilities," he says. "At least one building was on fire all the time." But the wealthy railroad's structures tended to be solidly built, many dating back to the 19th century, and a few had been designed by such well-known names as Daniel Burnham. Hasbrouck found his interest in and respect for historic architecture rising. In 1963, he and his wife Marilyn (now the proprietor of Prairie Avenue Bookshop, one of the country's largest architectural bookstores) founded *The Prairie School Review*, an academic publication full of essays on Prairie Style and other avant-garde turn-of-the-century American architecture.

"Landmarks were being torn down all over town, enthusiasm for Wright and Sullivan was increasing, and we were writing editorials lambasting the architectural profession for not paying more attention to restoration," he says. The magazine, he adds, "gave me great entree. I could go anywhere and show it and be taken seriously." Taking him especially seriously in 1968, the AIA invited him to serve as executive director of its Chicago Chapter and Illinois Council. He gave up hands-on work to accept the job: "The AIA needed a spokesman with no practice, with no ax to grind."

But the more architects he met through AIA, the more he realized that Chicago lacked restoration specialists. "Maybe two or three were active," he recalls, "and those had a certain reluctance, because they didn't want to spend the time and money to do it well." He left AIA in 1975 to hang out his own

continued on page 42



Divison 2
SITEWORK

FENCES & GATES

KEEPING YOU POSTED: From Pickets To PVC

• BY EVE M. KAHN •

Fences and gates give a site its first opportunity to impress visitors. Whether low, simple, and friendly or high, sharp, and forbidding, they reveal the personalities of the owners within. The earliest fences in America, however, were purely functional; made of rough lumber, they kept intruders out and animals in, and delineated the boundaries of newly settled land. Progress brought wrought iron to many of the colonies in the latter half of the 18th century, while wood fences, for the wealthy, became increasingly decorative. Cast iron became prevalent in the second half of the 19th century, as did elaborately detailed wood fences, but many of these disappeared in the early 20th century: Ornament in general fell out of favor, and metalwork was often melted down for military purposes.

Today a enormous variety of fencing has become available, including types unknown until recently, such as PVC and metals with high-tech finishes. But the basic requirements of fences and gates have remained the same: Creative design and good workmanship are still crucial.

How do you specify and get high-quality fences and gates? What are the signs of shoddy workmanship? What are the advantages and disadvantages of different materials and finishes? What are the best installation techniques? We interviewed manufacturers who work with wood, including

Fred Good of Brattle Co.; Richard Ross of Heritage Fence; and Gary Womble of Acorn Fence; manufacturers who work in metal, including Robert Baird of Historical Arts & Casting; Scott Howell of Robinson Iron; and Dave Beukamp of Historical Fence and Ironworks. We also spoke to PVC supplier David Blum of Bufftech, and to antique fence and gate sources Joe Ley of Ley Antiques and John Greer of Governor's Antiques. ♦

Who's In This Special Report

The 38 companies included in the SourceList on pages 6 and 8 include manufacturers of wood, metal, and PVC fences and gates. They range from one-man shops with all-custom lines to major manufacturers of stock products, and from new establishments to 100-year-old companies still offering vintage designs. Some specialize in fences and gates, others produce them as part of broader selections. We've also included several antiques dealers who supply old metal fences and gates.

As noted, some of their literature is free and some is not. If you need information immediately, call or write the companies directly. We've provided all contact information on the SourceList. (Please mention TRADITIONAL BUILDING.) If you simply need information to update your files, you may find it more convenient to use the enclosed Product Information Card or the Form on page 46.

FENCE & GATE DESIGN CHECKLIST

GENERAL ADVICE	<ul style="list-style-type: none"> Consider the landscape: Certain fence styles, such as curve-topped or flat-topped rails, don't adapt easily to hills, while pickets can rise and fall gracefully with the terrain. Allow for future landscaping: Will the owner change the gardens often, or soon install a pool? Avoid the common mistake of overfencing; the owner may not need a big barrier around the property, but only privacy in certain areas.
WOOD	<p>DESIGN: Nails, screws, mortise-and-tenon joints, and dowels are all options. Mortise-and-tenon joints look handsome, as do dowels, but both are prone to rot. Screws allow changes to be made without ripping apart the fence.</p> <p>WOOD SELECTION: For visible areas, western red cedar or northern white pine boards and rails with kiln-dried pressure-treated southern yellow pine (CCA .40) in-ground posts are best. (Pressure-treated rails and boards are fine for less visible spots.) The posts, which lose their looks quickly, can be disguised with above-ground northern white pine or cedar sleeves.</p> <ul style="list-style-type: none"> Wax-emulsion pressure-treated posts are also an option, but they have not yet proven their long-term durability and they cost 15% more. Another option is cedar in-ground posts. They age well and do not pose the environmental hazards of pressure-treated, which has to be handled with gloves and sawn wearing masks, and which can't be burned and so will one day end up in a landfill. <p>FINISHES: Latex stain is low maintenance, comes in opaque formulas, and does not fade readily. (Prime northern white pine before staining.) However, its finish is flat and not well suited to visible areas.</p> <ul style="list-style-type: none"> Paint requires re-application but gives a more polished look. <p>WORKMANSHIP: Watch for open joints, missing structural pieces, thin pieces (commercially available pickets can be as thin as 1/2 in. and last perhaps 3 or 4 years); gaps where boards meet posts or rails; nails or screws not well sunk.</p> <p>INSTALLATION: Fence posts should extend 3 ft. into the ground.</p> <ul style="list-style-type: none"> Post holes should be filled with soil. (For pressure-treated, concrete hole filler is overkill, and for non-pressure-treated, concrete holds water.) If the soil is loose, sandy, or wet, stiffen it by mixing in some Portland cement. Gate posts should be thicker than fence posts and set in concrete.
METAL	<p>DESIGN: Fences generally need to be supported by a post every 5 or 6 ft.</p> <ul style="list-style-type: none"> To reinforce heavy gates unobtrusively, continuous welding and lateral ties are options, as is an I-beam along the gate's bottom. Scrolls and other small ornament can also serve as braces. Masonry posts for heavy gates should be equipped with steel reinforcing rods, or the gates should be hung directly on steel columns disguised in masonry. The best hinges for heavy gates contain stainless-steel pins and ball bearings and can be lubricated. (Lawler and Stanley are two recommended manufacturers.) Use two hinges rather than three; gates with too many hinges get stuck easily. <p>MATERIALS: Aluminum is 1/3rd the weight of steel or iron; steel and iron are stronger and easier to repair. Bronze and copper are rust-free but expensive and prone to theft.</p> <ul style="list-style-type: none"> Tubular iron, unless galvanized, will rust inside. Tubular is acceptable if budgets are tight, if weight is a consideration, and if tubes are installed so that they can drain. <p>WORKMANSHIP: Watch for welds that look like wads of bubble gum; weld splatters; and discontinuous lines on either sides of posts.</p> <p>INSTALLATION: In most cases, set the posts in concrete.</p> <ul style="list-style-type: none"> Lead, the predominant 19th-century setting material, can be used if the posts are being set in holes drilled in stone, or if there is danger of abuse (a fallen post set in lead can be re-erected easily). However, lead is costly, and its fumes, of course, are hazardous. <p>GALVANIZING Advantages: The Rolls Royce of coatings, galvanizing is tough and environmentally safe to apply; it can be patched with spray, and if it is pierced, its molecular properties are such that it tends to heal itself.</p> <p>Disadvantages: Even a top-notch galvanizing job will leave runs and drips that need to be sanded off; not many galvanizing shops can handle large gate or fence sections, and smaller sections require more drilling and gouging to assemble, causing more rust-prone holes; and a bad galvanizing job can ruin details.</p> <p>EPOXY: Recommended Formulas: DuPont's Corlar, a zinc chromate; also Tnemec's system: 90-97 Tneme-Zinc primer, Series 73 Endura-Shield III enamel, and Series 66 Hi-Build Epoxoline. (Tnemec Co., Box 411749, Dept. TB, Kansas City, MO 64141 (816) 483-3400.)</p> <p>Advantages: Two-part epoxy systems are the BMWs of coatings. They are cheaper than galvanizing and only slightly less tough, and they can be touched up.</p> <p>Disadvantages: Epoxy application is not a job for laypeople, and it requires spraying, an environmentally unhealthy technique. Also, the surfaces sometimes need sanding before touch-ups will bond to them.</p> <p>PAINT: Red-oxide primer with industrial alkyd enamel is an old favorite, and cheap. Re-apply every two years, strip every 40 years, and iron-work can easily last a century.</p> <p>OTHER FINISHES: Numerous baked-enamel and powder-coating systems are now on the market; they all have the disadvantage that repairs are difficult.</p>
Finishes:	
PVC	<p>MISCELLANEOUS ADVICE: Resign yourself to the knowledge that no matter how much money you spend on coatings, some rust will occur.</p> <p>Advantages: Difficult to damage and generally comes with long warranties; never needs repainting; a number of handsome traditional designs now available; looks like wood from a distance.</p> <p>Disadvantages: Limited custom work available, and only a few colors, and colors other than white can cost extra. If damage occurs, replacement is the only attractive solution, and up close PVC does not convey the warmth and solidity of wood.</p>
ANTIQUE FENCING	<p>Advantages: Handsome antique designs and workmanship; the pleasure of owning something with a provenance.</p> <p>Disadvantages: Pieces badly rusted or bent may be difficult to repair. Repairs must be handled by specialists, so buy from a source who can restore ironwork or knows where to get the work done properly.</p>



TRADITIONAL BUILDING's FENCES & GATES SOURCELIST

continued
CSI# 02800

□ BY EVE M. KAHN

COMPANY	SPECIALTY	Literature	Materials	Style/Type	% Custom
Acorn Fence 500 State Ave., Dept. TB Tiverton, RI 02878 401-625-1356	4-year-old wood fence and gate manufacturer; specializes in elaborate traditional designs; 25 finials and 10 picket shapes; gates range from simple raised panels to Chinese Chippendale fantasies. Also lattice, trellis, gazebos, pergolas, and bridges.	Free	western red cedar	as specified, (Colonial & Victorian specialties)	100%
Antique Cast Iron RD 1, Box 187R, Dept. TB Cherry Valley, NY 13320 607-264-3607	Cast-iron restoration specialists who can reproduce antique fences and gates, working from originals or images, and can repair.	None	cast iron	as specified	100%
Bokenkamp's Forge 10132 Liberty Rd., Dept. TB Powell, OH 43065 614-889-0819	One-man forge that can work in any metal or style and has extensive design experience.	Portfolio	metal as specified	as specified	100%
Bow House Randall Rd., Dept. TB Bolton, MA 01740 508-779-6464	Along with kits for gazebos, ornamental bridges, and other wooden garden structures, the company fabricates wooden fencing to spec. Intricate styles such as Chinese Chippendale are a specialty, as are serpentine fences.	Free <i>Write in No. 345</i>	wood as specified	as specified	100%
Brattle Co. Box 536, Dept. TB Cambridge, MA 02238 617-864-2110	Wood fences and gates, most based on 18th- and 19th-c. designs; museum-quality reproductions, rounded corners, elaborate posts and finials, and latticework are specialties.	Free	western red cedar, northern pine	as specified	50%
Bufftech 2525 Walden Ave., Dept. TB Buffalo, NY 14225 800-333-0569	PVC picket fences, most available in 3-, 4-, or 5-ft. heights and many with traditional finials and posts.	Free	PVC	Colonial, utilitarian	5%
Charring Cross Roads Box 321, Dept. TB St. Cloud, MN 56302 612-251-5106	Importer of aluminum reproductions of 19th-c. ironwork, including wide variety of filigree fences and gates.	Send \$2 for catalog	aluminum	Victorian	25%
Cross Industries 3174 Marjan Dr., Dept. TB Atlanta, GA 30340 404-451-4531	Manufactures PVC lattice in 9 colors plus white, in diagonal and rectangular patterns; minimizes maintenance headaches.	Free <i>Write in No. 23</i>	PVC	utilitarian	5%
Dutch Products & Supply 166 Lincoln Ave., Dept. TB Yardley, PA 19067 215-493-4873	Fences and gates imported from Holland, topped by scrollwork alternating with spears: Stock gate width, 12 ft.; stock fence heights, 33 or 44 in., with custom sizes (but not patterns) available.	Free <i>Write in No. 705</i>	galvanized steel	Colonial	10%
Eastern International 515 Johnson Ave., Dept. TB Bohemia, NY 11716 800-FENCE88	"Creative Mix-N-Match" system: 21 modular components for traditional wood fences and gates. Patterns include solid panels, pickets with or without ornamental tops, cut-outs, and lattice. Gates can be 3-1/2 or 5 ft. W and any height.	Free <i>Write in No. 682</i>	northern white cedar	Colonial, Victorian	10%
Elm Industries 1539 Race St., Dept. TB Cincinnati, OH 45210 513-241-7927	30-year-old metalwork manufacturer that specializes in fences, gates, and security grates, primarily for residential buildings. Will make house calls in Cincinnati area.	Free	iron	as specified	100%
Empire Woodworks Box 407, Dept. TB Johnson City, TX 78636 512-868-7520	Family-owned woodwork shop that produces Victorian balusters, newel posts, finials, and rails for fences and gates as well as other architectural ornament.	Free <i>Write in No. 683</i>	redwood, cedar, poplar	Victorian	10%
Goldenrod Ironworks 144 Bedford Ave., Dept. TB Brooklyn, NY 11211 718-782-2409	Small custom fabricator that produces, among other architectural metalwork, fences and gates, typically for projects in the New York area. Specialties include castings and "challenging or unusual designs and restorations, in any metal."	None <i>Write in No. 685</i>	metal as specified	as specified	100%
Governor's Antiques 6240 Meadowbridge Rd., Dept. TB Mechanicsville, VA 23111 804-746-1030	4-1/2-acre salvage yard that has "more longer runs of antique fencing than anyone else." Iron gates to 25 ft. W, fence runs to 4300 ft. L, all restored; installation service available. Also copies of antique fences and gates based on originals, images, or 750 stock patterns.	Free	iron, aluminum	Colonial, Victorian	25%
Heritage Fence Box 121, Dept. TB Skippack, PA 19474 215-584-6710	Specialists in accurate reproductions of historic wood fences and gates, based on patterns found in old books or at historic buildings. Also arbors, trellis, lattice panels, and "anything other fence companies can't offer." Will travel to install in Pennsylvania area.	Free <i>Write in No. 559</i>	pine, western red cedar, spruce	Colonial, Victorian, utilitarian	50%
Historical Arts & Casting 4130 W. 1939 S., Unit F, Dept. TB Salt Lake City, UT 84104 801-974-0242	Major cast-metal restoration and fabrication company that builds fences and gates based on originals or images, including pictures from its own collection of Victorian foundry catalogs.	Free brochure; send \$5 for catalog <i>Write in No. 121</i>	bronze, iron, aluminum, steel	as specified, with Victorian a specialty	100%
Historical Fence and Ironworks Box 141459, Dept. TB Cincinnati, OH 45250 513-244-1442	Fence and gate specialists for large and small projects; staff will travel to install. 14 stock designs include hairpins and spears linked by scrolls and rails. Line and newel posts, 13 gates, and 20 finials also available.	Free <i>Write in No. 686</i>	iron	Colonial, Victorian	90%
Land Marks RR2, Box 8036, Dept. TB Milford, PA 18337 717-296-8354	Small forge that restores or fabricates fences and gates in any style "from very modern to French Provincial." Specialists in complicated forge work for high-end residential or commercial buildings.	Free <i>Write in No. 689</i>	iron, aluminum, bronze	as specified	100%
Lawler Machine & Foundry Box 320069, Dept. TB Birmingham, AL 35232 205-595-0596	1,000 types of metalwork, with fences and gates mainly in elaborate Victorian styles, including a reproduction of the famous Cornstalk fence in New Orleans. Also fence and gate parts such as Victorian newel posts and over 100 types of finials/spears.	Free brochure; send \$5 for catalog	iron, aluminum, steel	Colonial, Victorian	10%
Ley Antiques 615 E. Market St., Dept. TB Louisville, KY 40202 502-583-4014	Two acres of architectural antiques, including iron fences: Loop and spear, picket, and other traditional Victorian styles, typically in 6-ft. lengths. Also a wide variety of antique gates as well as custom fences and gates based on originals or images.	None	iron	as specified	25%

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Monumental Iron Works' piers can be used in place of stone or brick columns in the line of fence shown above. They can also be used as gate posts.



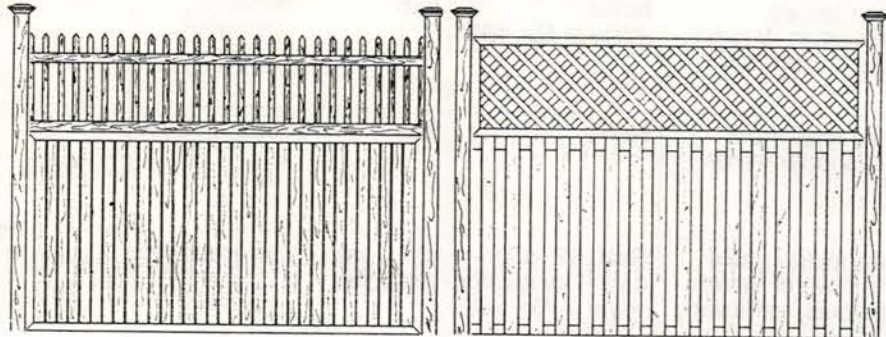
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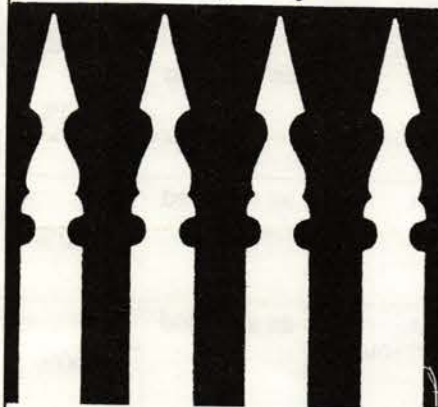
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□ BY EVE M. KAHN

COMPANY	SPECIALTY	Literature	Materials	Style/Type	% Custom
Lone Star Iron Works Box 1343, Dept. TB Weatherford, TX 76086 817-594-8584	4 stock Victorian fence styles with spikes, hairpins, and/or scrolls; matching gates and end fans; 40 to 72 in. H. Fences \$12-\$25 per lin.ft. in 10-ft. lengths; gates \$200-\$225, fans \$120-\$175; 20% trade discount. Plain and Victorian posts; also custom replicas and repairs.	Free	iron	Victorian	40%
Mad River Woodworks Box 1067, Dept. TB Arcata, CA 95525-1067 707-668-5671	Victorian woodwork supplier that offers, for fences and gates, turned balusters, posts, newels, and finials; sawn pickets and balusters; and rails.	Send \$2.50 for catalog <i>Write in No. 35</i>	redwood	Victorian	20%
Monumental Iron Works 6500 Eastern Ave., Dept. TB Baltimore, MD 21224 301-633-6500	99-year-old steel fence manufacturer which uses traditional techniques and patterns; stocks components and assemblies to order. Pickets as well as cast-filigree panels; also wide variety of slide, swing, single, and double gates.	Free <i>Write in No. 691</i>	galvanized steel	Colonial, Victorian, utilitarian	80%
Moultrie Manufacturing Box 1179, Dept. TB Moultrie, GA 31776-1179 800-841-8674 or 912-985-1312	Major manufacturer supplies custom gates and fences. Suggested designs incorporate oak leaf, bird, shell, filigree, and grapevine patterns as well as hoops and spears. Gate kits available, with double gate, wing panels, aluminum posts, lanterns, brackets, latches, and bolts.	Free brochure; send \$3 for design kit	aluminum	Victorian	100%
New England Tool Box 30, Dept. TB Chester, NY 10918 914-782-5332 or 651-7550	Small forge designs and fabricates reproduction or historically appropriate gates and fences for driveways, estates, gardens, entries. Electronic controls available. Recent projects include gates for Lewiston, NY, and stair rail for Federal Reserve Bank in New York City.	Free <i>Write in No. 264</i>	iron, aluminum, bronze, steel, brass	as specified	85%
Robinson Iron Robinson Rd., Dept. TB Alexander City, AL 35010 205-329-8486	Major cast-iron restoration and supply firm that has built or recreated fences and gates for historic sites, including parks, homes, Main Streets, and civic and commercial buildings. Stock bollard, stanchion, and post designs wotj fluted or embossed bases and tops in the form of simple spheres or elaborate urns.	Free	iron, aluminum, bronze	as specified; Victorian a specialty	85%
Salvage One 1524 S. Sangamon St., Dept. TB Chicago, IL 60608 312-733-0098	Architectural salvage yard with large stock of iron fences, widow's-walk to 4-1/2 ft. H, and gates from one-person W to full driveway and entry sets. American and European styles; also window guards.	None <i>Write in No. 499</i>	iron	Colonial, Victorian	0%
Siglar Blacksmiths 315 S. Lawn, Dept. TB Kansas City, MO 64124 816-231-6633	Custom forge that builds fences and gates in any style, from Colonial to Victorian to Art Deco. Specializes in shorter rather than longer fence runs; gates can be any size.	None	iron	as specified	100%
Silver Creek Mill Rt. 4, Box 216B, Dept. TB Forsyth, MO 65653 417-546-4472	Family-owned ornamental woodwork shop that supplies sawn balusters for fences and builds small gates with sawn or turned components: Patterns include trees, rows of spindles, trelliswork, and sawn work topped by hearts.	Send \$2 (refundable) for catalog <i>Write in No. 708</i>	pine, oak, redwood	as specified; Victorian a specialty	50%
Steptoe & Wife Antiques 322 Geary Ave., Dept. TB Toronto, Ont., Canada M6H 2C7 416-530-4200	Large restoration-supply store that distributes Lawler ironwork in Canada, can incorporate Lawler pieces into custom designs, and also offers custom cast work based on images or originals.	Send \$8 for catalog <i>Write in No. 47</i>	iron, steel, aluminum, bronze	as specified	100%
Stewart Iron Works 20 W. 18th St., Box 2612, Dept. TB Covington, KY 41012 606-431-1985	105-year-old iron fabricator specializing in fences and gates; will customize their 19th-c. designs. Experienced with design, engineering, specification; customers include museums, national parks, churches, new construction as well as restorations.	Free <i>Write in No. 267</i>	iron, aluminum, steel	as specified; Victorian a specialty	50%
Texas Standard Picket 606 W. 17th St., Ste. 304, Dept. TB Austin, TX 78701 512-472-1101	Reproductions of c.-1900 fence pickets and posts. Pickets measure 3/4 by 2-1/4 by 42 in. (\$2 to \$7.50 ea., depending on wood); posts measure 4 sq.in. by 6 ft. (\$25 or \$36).	Free flyer; \$2.50 for picket sample pattern <i>Write in No. 572</i>	cedar, pine, redwood, cypress	Victorian	10%
Triple Crown Fence Box 2000, Dept. TB Milford, IN 46542 219-658-9442	PVC fencing with from 1 to 5 rails or planks, from 4 to 9 ft. H, with square or round posts.	Free	PVC	utilitarian	0%
Walpole Woodworkers 767 East St. (Rt. 27), Dept. TB Walpole, MA 02081 508-668-2800	57-year-old manufacturer of wide variety of Colonial and Victorian fences and gates. Patterns from peeled-pole pickets to posts trimmed with molding and dentils; 6 styles are exact copies of 18th-c. originals at Colonial Williamsburg.	Send \$6 for catalog	northern white cedar, steel	Colonial, Victorian	25%
R. Walsh Forge & Foundry Rte. 1, Box 83, Dept. TB Stockholm, WI 54769 715-442-3102	Small blacksmith producing fences and gates to spec. Religious, civic, residential, and commercial buildings; can repair, restore, and recreate antique designs.	Free	iron	as specified	100%
White Oak Forge Box 341, Dept. TB The Plains, VA 22171 703-253-5269	Artist-blacksmith shop that can design as well as fabricate. Has worked on gates and fences, from cathedrals to modest gardens, and often uses traditional joinery methods: Rivets, collars, mortise and tenon joints, and fire welding.	Free <i>Write in No. 698</i>	iron	as specified	100%
Wonderland Products 5772 Lenox Ave., Dept. TB Jacksonville, FL 32205 904-786-0144	Family-owned 40-year-old forge that builds gates and fences based on images or originals and also repairs old pieces, for residential and commercial buildings. Has won numerous awards from the National Ornamental & Misc. Metals Assn.	None	iron, aluminum	as specified	100%

About The International Fence Industry Association (IFIA)

In 29 years, the International Fence Industry Association has attracted 600 members here and overseas, including contractors, suppliers, and manufacturers. Professionals who need fencing can contact the association at the address below and will be referred either to a specific company or to one of the organization's 22 regional chapter presidents who can supply the name of a specific company.

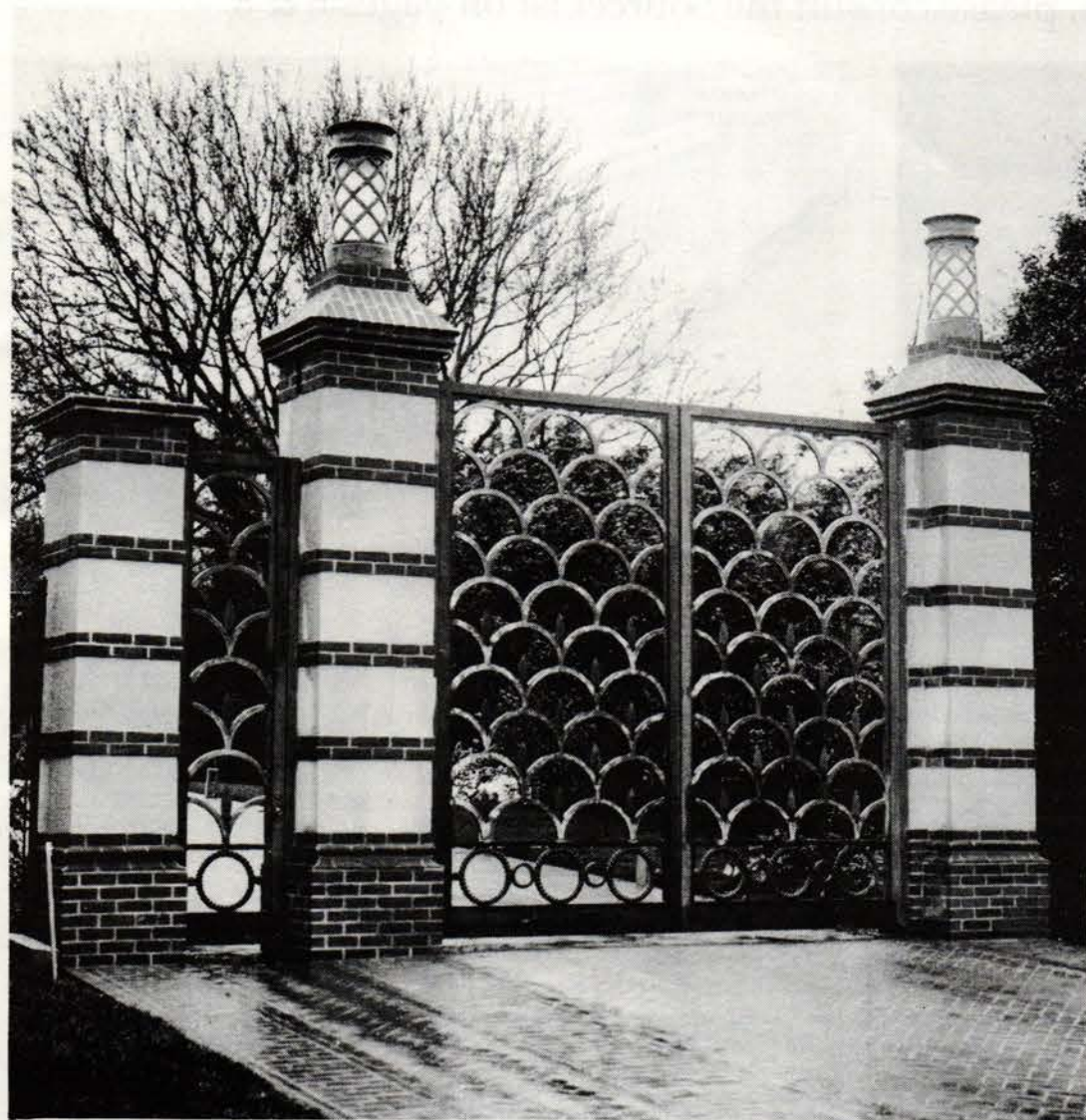
IFIA's other offerings of particular interest to architects and contrac-

tors are its annual convention and trade exhibit, FENCETECH, and its regional educational seminars. The following companies that are on the SourceList are members of the IFIA: Bufftech, Eastern International, Lawler Machine & Foundry, Monumental Iron Works, and Triple Crown Fence.

For more information, contact: **International Fence Industry Association, Inc., 5300 Memorial Drive, Ste. 116, Stone Mountain, GA 30083 (800) 822-IFIA or 404-299-5413.**

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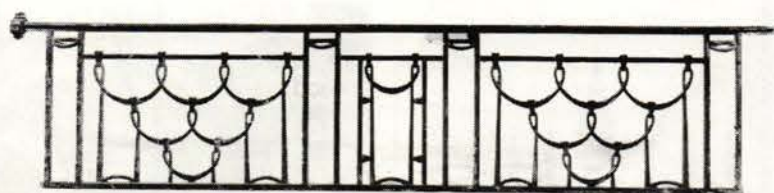
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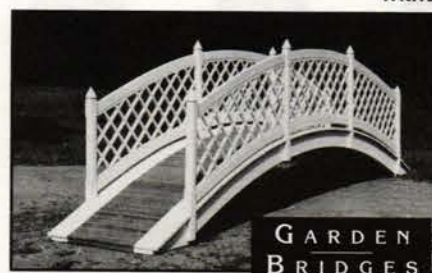
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MARCH/APRIL 1991 ■ 9

FENCES & GATES SHOWCASE

Shown are some traditionally styled fences in a variety of materials. For contact information, please consult the SourceList on pages 6 & 8.



A garden gate with curlicues from White Oak Forge



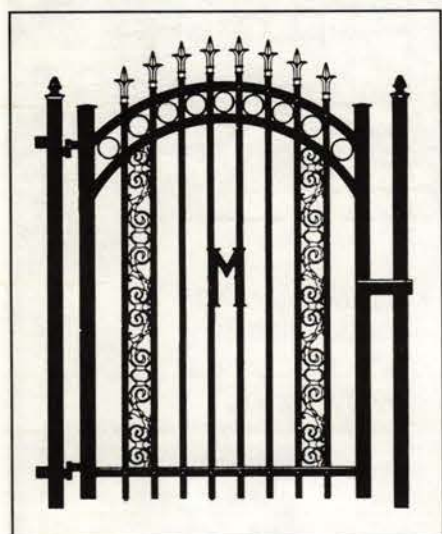
Thick garlands on a driveway gate by Wonderland Products



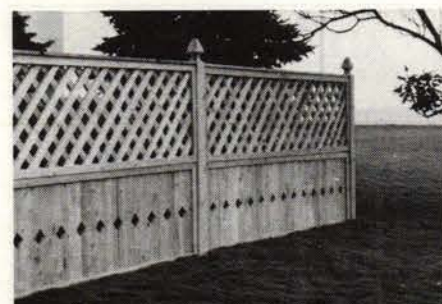
One of many period fence patterns Historical Arts & Casting can reproduce



Curved panel from Stewart Iron Works



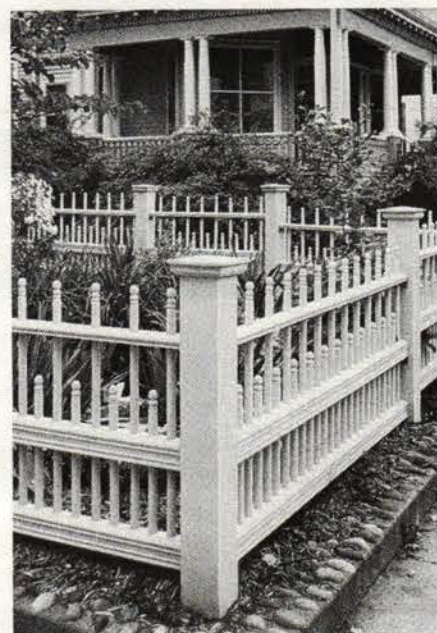
Scrollwork and a monogram on a Monumental Iron Works gate



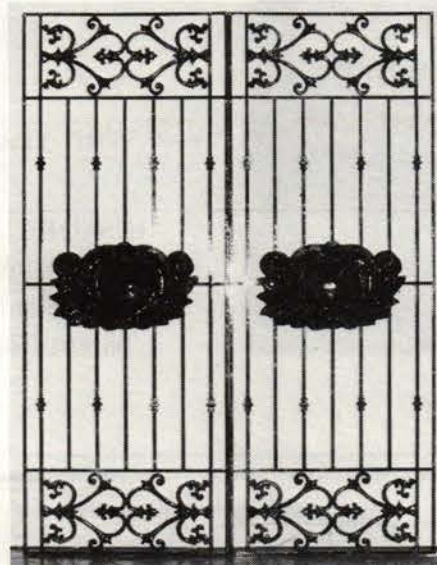
Lattice and cutout panels, part of Eastern International's 21-piece Creative Mix-N-Match fence system



Fluted posts and crisscross fence panels from Acorn Fence



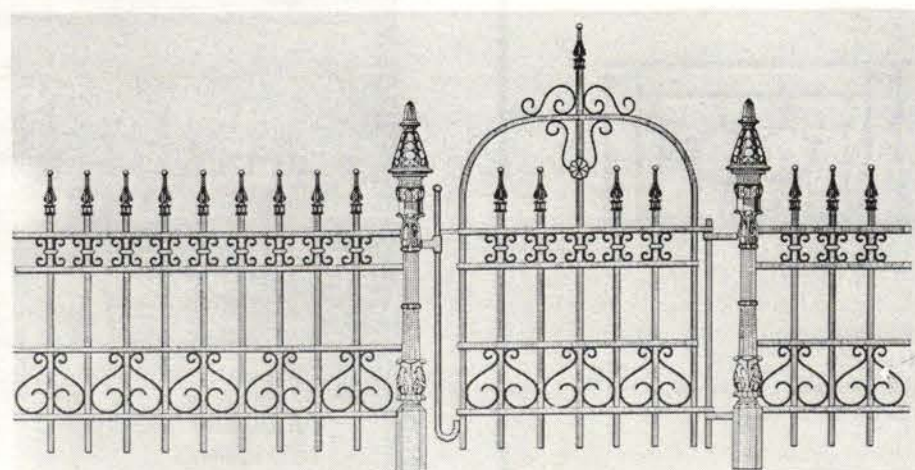
A house-appropriate fence by Walpole Woodworkers



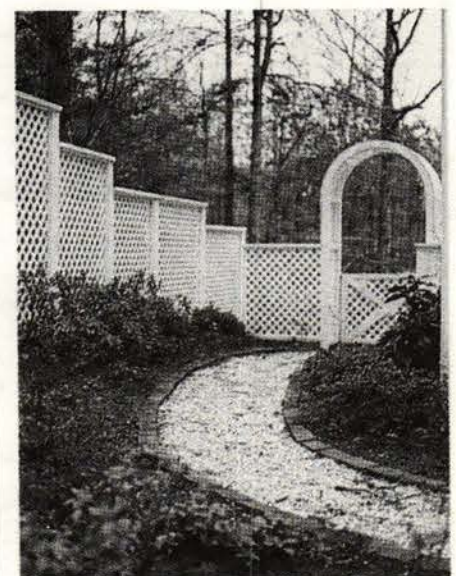
Flourish-embellished gate from Step-toe & Wife Antiques



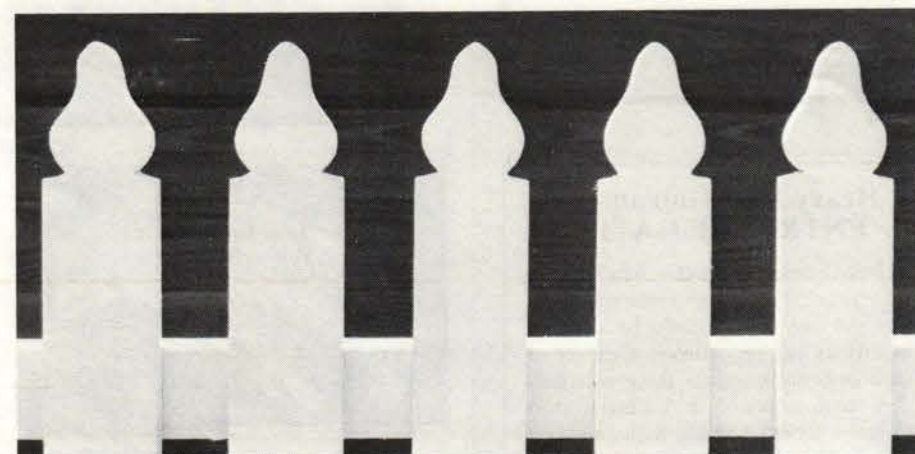
Victorian pickets reproduced by Texas Standard Picket



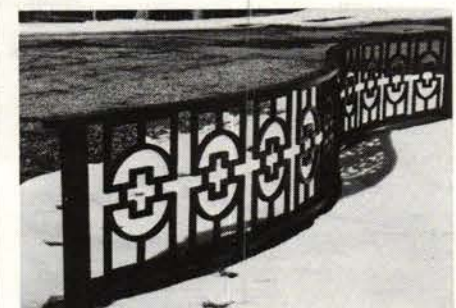
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Detail of shaped pickets from Heritage Fence



Serpentine Chinese Chippendale fence from Bow House

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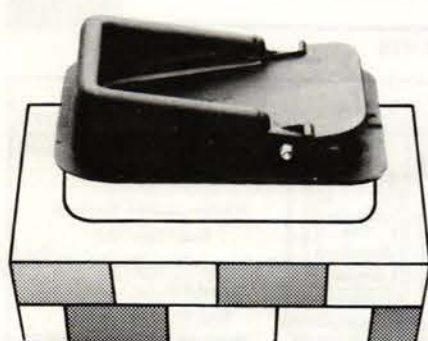
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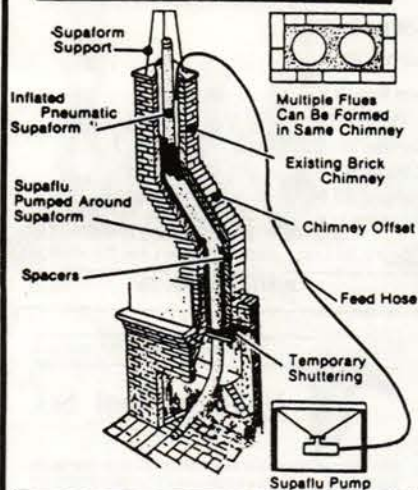
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special report

Architectural Millwork: ENRICHING DETAIL

BY JUDITH SIEGEL LIEF

We all know that millwork adds enriching detail to an architectural design. Similarly, the specifier must provide plenty of enriching detail to the millwork supplier in order to complete a highly aesthetic *and* reasonably economical project. Here are some guidelines provided to bridge conflicts that may arise between professionals and their clients.

How does one become an informed purchaser of architectural millwork? John Walker at Walker Brothers says, "Ask someone! Call up a millwork shop with a good reputation and ask questions." Julie Ryder at Silverton Victorian Millworks declares, "Educating our clients is our strongest sales tool. We would never withhold information from anyone." However, before you call, consider the following guidelines; they may help you ask questions that will lead to writing more precise specifications.

■ Does the client really want wood? Wood, as a living material, has natural variations, some of which don't become apparent until it's stained. Paul Singelyn at Yuenger Wood Moulding notes, for example, that there are 6-8 different types of Red Oak. So even if you've specified Red Oak, he can't guarantee that there won't be color or consistency variations from one piece of wood to another. He adds, "Some clients ask for wood but they really want plastic laminate. Wood is for clients who understand that the natural variation in tone, texture, and grain is what makes wood pretty."

■ Submit only complete plans for bidding. In fact, many suppliers don't even quote on "preliminaries" anymore. The more complete the drawings, the more likely a job will receive a precise quote — without padding to cover unknown contingencies. John Walker estimates that on a \$1 million job, if the architect spends \$10-15,000 extra on finishing the plans, he'll probably have saved several times that amount by the time the job is completed.

■ How do you determine wood quality? First of all, be sure of the wood grade you want. Wood guidelines are very complex, and different species are graded differently. Once you've decided on a wood, make sure you understand the grading for that species — and the grade that will be specified. Find out what grade a company uses. For instance, Silverton uses only FAS 2-face oak — the highest grade of oak — for its moldings, a grade with virtually no blemishes or imperfections on either side. With that grade of wood, there's no danger of checking, mineralization, bad color, pitch pockets, or knots. Frequently lumberyards — likely to sell low-cost prepared millwork — stock a

lower grade of wood and lack the expertise to compete on high-end jobs (they sometimes call millwork shops for advice.)

■ The second part of judging millwork quality is examining the surface or finish, which reveals the speed at which the wood is run through the molding knives. Materials that are run through machinery at a very fast rate are likely to have a wavy finish. The knives get dull and make deeper and more conspicuous marks in the wood. "At Silverton," Ryder says, "we run our molders very slowly and have operators at both ends. As soon as knife marks are perceptible, we stop the machine and regrind the knives, etc. That's the only way to keep the finish flawless."

We've consistently heard from suppliers that when jobs go over budget, clients panic and begin to cut costs on the finishes: Millwork, lighting fixtures, carpeting, appliances, etc. When this happens — as it invariably does — make sure the client understands the trade-offs of skimping on millwork. Appliances and carpeting will eventually wear out and be replaced, but inferior millwork is something the client and all successive owners will have to look at and live with for years. ♦


Who's on the SourceList

There are hundreds of millwork shops across the country. To keep the SourceList to a manageable size, we included only suppliers that turn out a significant quantity of traditional decorative millwork: Moldings, columns and capitals, gingerbread, etc. (We did *not* include turnings, for example.)

The list was further limited to suppliers who showed an interest in serving the special requirements of historical architects and contractors — as evidenced by their willingness to respond to a detailed questionnaire and provide product literature. From the 73 replies, the editors selected the 54 that seemed most relevant to our readers' needs.


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TRADITIONAL BUILDING'S SOURCELIST OF ARCHITECTURAL MILLWORK

continued
CSI# 06200

BY JUDITH SIEGEL LIEF

COMPANY	SPECIALTY	Literature	Ornamental Millwork	Columns & Capitals	MOLDINGS					% Custom
					Carved	Embossed	Fluting/Reeding	Straight-Run	Dentil	
Advanced Design 190 Highland Pl., Dept. TB Brooklyn, NY 11208 (718) 647-5600	Manufacturer of balusters, newel posts, handrails, and full line of stair parts. Can customize any design; restorations a specialty. Wood type: Oak, Poplar, Mahogany, or as specified.	Free Write in No. 677	×	×						80%
American Custom Millwork 3904 Newton Rd., Dept. TB Albany, GA 31706 (912) 888-3303	Embossed architectural moldings, cornices, chair rails, and baseboards crafted from American hardwoods. Also, design service for mantels, entryways, door treatments, cabinetry, and panelwork. Wood type: Appalachian Poplar.	Free Write in No. 678	×	×		×	×	×	×	50%
Amherst Woodworking PO Box 718, Dept. TB Northampton, MA 01060 (413) 584-3003	Full range of doors, windows, and moldings. Wood type: White Ash, Birch, Butternut, Cherry, Honduran Mahogany, Maple, Red Oak, White Oak, Poplar, Walnut, and Pine.	Free Write in No. 410	×	×	×	×	×	×	×	95%
Anderson-McQuaid Co. 170 Fawcett St., Dept. TB Cambridge, MA 02138 (617) 876-3250	All domestic species plus over 40 species of exotic woods in stock.	Free Write in No. 595		×	×	×	×	×	×	90%
Architectural Components 26 No. Loverett Rd., Dept. TB Montague, MA 01351 (413) 367-9441	Specialize in building custom and reproduction windows, doors, entrances, moldings, mantels, shutters, paneling. Wood type: Pine or as specified.	Free flyer Write in No. 385 Or send \$3 for full catalog	×	×	×		×	×	×	100%
Architectural Paneling 979 Third Ave., Dept. TB New York, NY 10022 (212) 371-9632	Specialize in designing and executing traditional full-paneled rooms with built-in furniture. Wood type: Cherry, Maple, Oak, Walnut, Mahogany.	Free Write in No. 530		×	×				×	100%
Bendix Mouldings, Inc. 37 Ramland Rd. S., Dept. TB Orangeburg, NY 10962 (800) 526-0240	Carved and embossed hardwood moldings, embossed pine moldings, chair and crown moldings, and embossed wood ornaments. Wood type: Ramin, Poplar.	Free Write in No. 578	×		×	×			×	5%
Blanch Millwork & Fixture 4301 Claude Court, Dept. TB Denver, CO 80216 (303) 295-2564	All types of architectural woodworking: Radius molding work, custom doors, and wood windows. Wood type: as specified.	Free	×	×		×	×	×	×	100%
Blue Ox Millworks Foot of X St., Dept. TB Eureka, CA 95501 (707) 444-3437, (800) 248-4259	Historically accurate custom reproduction woodwork. They can match existing patterns of everything from moldings and turnings to carved appliques. Wood type: Redwood.	Free	×	×	×	×	×	×	×	100%
Boise Moulding & Lumber 116 E. 44th St., Dept. TB Boise, ID 83714 (208) 322-6066	Full line architectural woodworking manufacturer specializing in custom and reproduction moldings, doors, paneling, flooring, etc. Small or large jobs. Wood type: as specified.	Free	×	×			×	×	×	95%
Chadsworth Incorporated PO Box 53268, Dept. TB Atlanta, GA 30355 (404) 876-5410	Classically designed wood columns and capitals. Wood type: Pine, Redwood, Poplar.	Free Write in No. 18		×						50%
Center Lumber Co. 85 Fulton St., Dept. TB Paterson, NJ 07509 (201) 742-8300	Mantels, entryways, doors, windows, paneling, and over 1,200 molding profiles. Wood type: Domestic hardwoods, Mahogany, Pine.	For free flyer Write in No. 680 Or send \$20 for complete molding portfolio					×	×	×	85%
Coastal Millworks, Inc. 1335 Marietta Blvd., NW Dept. TB Atlanta, GA 30318 (404) 351-8400	Remill southern longleaf heart pine into flooring, architectural paneling, moldings, doors, windows, and cabinetry. 225 profiles; will work from sketches. Wood type: Southern Longleaf Pine, Maple, Oak, Cypress, Mahogany, Basswood, Cherry, Poplar.	Free Write in No. 319	×	×	×			×	×	100%
Creative Woodworking Co. 1370 Ralph Ave., Dept. TB Brooklyn, NY 11236 (718) 451-0460	High-end corporate and residential work. Wood type: as specified.	Free	×	×	×	×	×	×	×	100%
Cumberland Woodcraft Co. PO Drawer 609, Dept. TB Carlisle, PA 17013 (717) 243-0063, (800) 367-1884	Architectural woodwork, Victorian gingerbread, fretwork, carvings, moldings, panels, turnings, corbels, brackets, capitals, wainscoting, doors and screen doors, and more. Wood type: Red Oak, Poplar, or as specified.	Free Write in No. 131	×	×	×	×		×	×	20%
DHM Cabinetmakers Rte. 4, Box 173, Dept. TB Floyd, VA 24091 (703) 745-3825	Made-to-order millwork, moldings, flooring, casing, paneling, doors, carving, and casework. Both domestic and exotic woods.	Free Write in No. 493	×		×		×	×	×	100%
Driwood Moulding Co. PO Box 1729, Dept. TB Florence, SC 29503 (803) 669-2478/662-0541	Ornamental woodwork, embossed moldings, custom millwork, complicated double-handrailed stairways. Wood type: Poplar, Walnut, Cherry, Red & White Oak, Mahogany.	Send \$6 for catalog	×			×		×	×	50%
Empire Woodworks PO Box 407, Dept. TB Johnson City, TX 78636 (512) 868-7520	Specialize in brackets, corbels, spandrels, gable trim, running trim/sawn balusters, porch posts, newel posts, headers, mantel shelves, finials, spindles, cornices, and more. Wood type: White Pine, Poplar.	Free Write in No. 683	×							0%

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					Carved	Em- bossed	Fluting/ Reeding	Straight- Run	Dentil		
Raymond Enkeboll Designs 16506 Avalon Blvd., Dept. TB Carson, CA 90746 (213) 532-1400	Elegant carvings of architectural ac- coutrements including: balusters, newl posts, onlays, rosettes, panels, mold- ings, crowns, mantels, corbels, and more in many designs and styles. Wood type: Maple, Oak.	Free Write in No. 577	✕	✕	✕					0%	
Fancy Front Brassiere Co. PO Box 2847, Dept. TB Roseville, CA 95746 (916) 791-7733	Authentic Victorian gingerbread, brack- ets, corbels, corner and plinth blocks, corner posts, gable trim, pickets, run- ning trim, balusters, screen doors, and more. Wood type: Poplar or as specified.	Free Write in No. 704	✕					✕		100%	
Forest Wood Products 1407 21st St., Dept. TB Des Moines, IA 50311 (515) 243-8415	Solid wood curved moldings for round top windows and doors. Wood type: Pine, Oak.	Free Write in No. 684	✕					✕		75%	
Goodwin Lumber Co. Rte. 2, Box 119-AA, Dept. TB Micanopy, FL 32667 (904) 373-WOOD	Heart Pine stair parts, and moldings and trim to accompany flooring ap- pointments.	Free Write in No. 253						✕		65%	
House of Mouldings 15202 Oxnard St., Dept. TB Van Nuys, CA 91411 (818) 781-5300	Solid hardwood and softwood mold- ings, carved and embossed, corbels, finials, and stairway parts. Wood type: Pine, Oak, Walnut, Birch, Mahogany, Poplar.	Send \$7 for catalog	✕	✕	✕	✕	✕	✕	✕	100%	
Jelliff Mill 47 Jelliff Mill Rd., Dept. TB New Canaan, CT 06840 (203) 966-9475	Custom millwork, windows, cabinets, doors, trim, paneling, and moldings. Wood type: as specified.	Free Write in No. 687	✕				✕	✕	✕	100%	
The Joinery PO Box 518, Dept. TB Tarboro, NC 27886 (919) 823-3306	Specialize in flooring, trims and mold- ings, cabinetry; work with remilled lum- ber. Wood type: Heart Pine, Cherry, Maple, or as specified.	Free Write in No. 702	✕	✕	✕	✕	✕	✕	✕	100%	
Knipp and Company, Inc. 3401 S. Hanover St., Dept. TB Baltimore, MD 21225 (301) 355-0440	Wood type: as specified.	Free	✕	✕	✕	✕	✕	✕	✕	100%	
Kreider Brothers, Inc. PO Box 10065, Dept. TB Lancaster, PA 17605 (717) 397-3768	50-year-old family-run millwork and cabinetry shop. Doors, windows, moldings, paneling, cabinets, stair- ways, trim, and related products. Complete finishing facility. Wood type: as specified.	Free Write in No. 536	✕	✕			✕	✕	✕	90%	
Lange Bros. Woodwork 3920 W. Douglas Ave. Dept. TB Milwaukee, WI 53209 (4414) 466-2226	Custom moldings, stile-and-rail doors, windows, stairs, and cabinets. Wood type: Oak, Walnut, Cherry, Mahogany, Poplar, Birch, Pine.	Free	✕	✕	✕	✕	✕	✕	✕	100%	
Larkin Company 210 Carter Dr., Unit 4 Dept. TB West Chester, PA 19382 (215) 696-9096	Molding, wainscoting, tall and low mantels, pediments, and mantel over- panels in 18th- and early 19th-century American and English designs. Wood type: Poplar, Cherry, Oak, Mahogany, Walnut, Antique Pine, or as specified.	Free brochure or send \$6 (refun- dable) for catalog	✕				✕	✕	✕	50%	
Lititz Planing Mill Co. 302 E. Front St., Dept. TB Lititz, PA 17543 (717) 626-2186	Specialize in restorations, window and door frames, doors, raised-panel treat- ments, and special moldings. Wood type: as Specified.	None	✕				✕	✕	✕	95%	
Louisville Millwork PO Box 36095, Dept. TB Louisville, KY 40233 (502) 459-8710	Custom woodwork and casework for historic, commercial, and institutional applications. Moldings, paneling, cabinets, doors, turnings, and columns. Wood type: Oak, Poplar, Hard Maple, Cherry, A. Walnut, Mahogany, and more.	Free	✕	✕			✕	✕	✕	100%	
Mad River Woodworks PO Box 163, Dept. TB Arcata, CA 95521 (707) 826-0629	Victorian millwork, gable tops, shingles, brackets, corbels, pickets, post finials, balustrades, newels, turned posts, hand rails, spandrels, moldings, wainscoting, and more. Wood type: Redwood or as specified.	Free Write in No. 35	✕					✕	✕	50%	
Oakwood Woodworks 5 Pine Hill Dr., Dept. TB Pittsford, NY 14534 (716) 381-6009	Specialize in window and door mold- ings, chair rails, base moldings, ceiling crown moldings, rosettes, and plinth blocks. Wood type: as specified.	Free						✕	✕	100%	
Ornamental Mouldings PO Box 7123, Dept. TB High Point, NC 27264 (519) 884-4080	Manufacture decorative architectural wood ceilings, chair rails, casing and baseboard moldings, corner blocks, plinth blocks, and custom millwork. Wood type: White Hardwoods, Oak, or as specified.	Free Write in No. 706	✕		✕	✕	✕	✕	✕	50%	
Reliance Industries, Inc. PO Box 129, Dept. TB Richland, IA 52585 (319) 456-6030	Four styles of traditional moldings. Wood type: Oak, Poplar, Cherry, Ash, Maple, Mahogany, Pine.	Free (also free samples).				✕	✕	✕	✕	40%	
RI Millwork 390 Shippee Rd., Dept. TB East Greenwich, RI 02818 (401) 885-5172	Premium grade hardwood moldings (long or short run). In-house toolmak- ing to match any profile from wood sample or drawing. Wood type: Oak, Mahogany, Cherry, Walnut, Poplar.	Free Write in No. 695						✕		90%	

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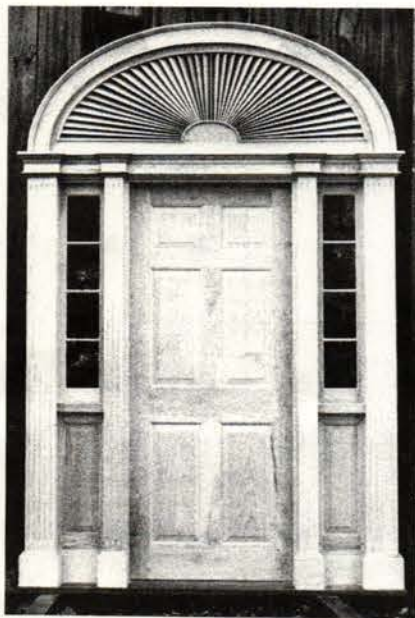


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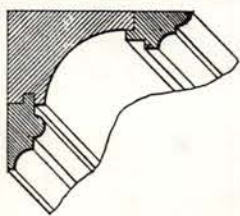
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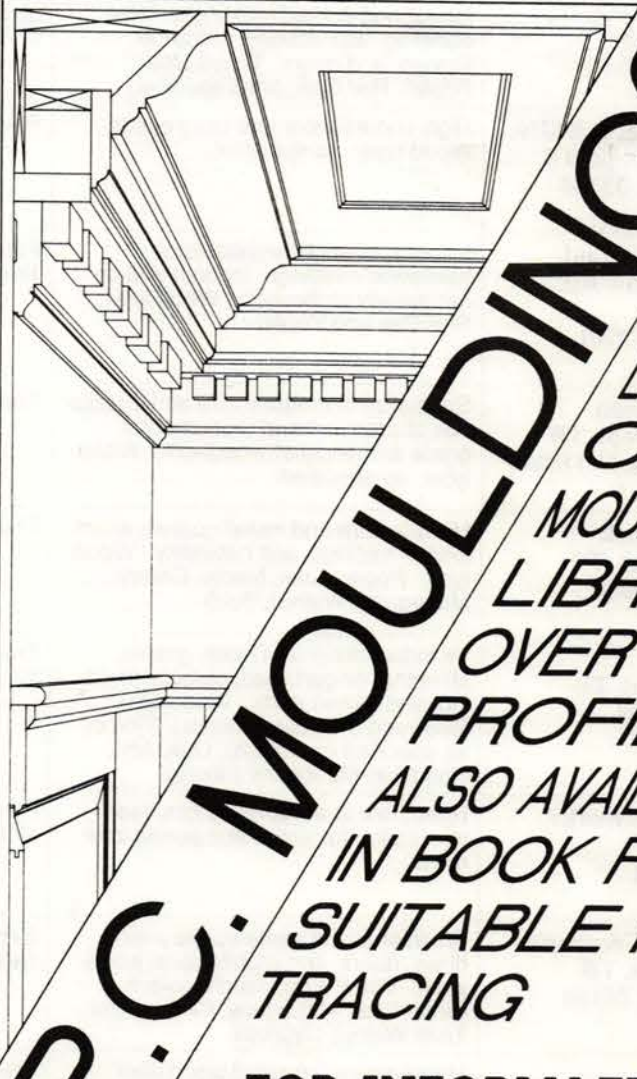
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COMPANY	SPECIALTY	Literature	Ornamental Millwork	Columns & Capitals	MOLDINGS					% Custom	
					Carved	Embossed	Fluting/Reeding	Straight-Run	Dentil		
Saco Manufacturing 39 Lincoln St., Dept. TB Saco, ME 04072 (207) 284-6613	Originally founded to make wooden water pumps; now specialize in restoration work, columns, and more. Wood type: Eastern White Pine, Poplar, or as specified.	Free		✖			✖			95%	
A.F. Schwerd Manufacturing 3215 McClure Ave., Dept. TB Pittsburgh, PA 15212 (412) 766-6322	Specialize in columns with tongue-and-groove staves; custom work. Columns from 4 in. to 50 in. dia. and up to 35 ft. long. Wood type: Northern White Pine and Poplar.	Free Write in No. 161		✖						95%	
Silver Creek Mill 1335 W. Hwy 76, Dept. TB Branson, MO 65616 (417) 335-6645/546-4472	Specialize in spandrels, gable ends, and more. Wood type: Pine, Poplar, and Walnut.	Free Write in No. 708	✖				✖	✖	✖	60%	
Silverton Victorian Millworks PO Box 2987, Dept. TB Durango, CO 81302 (303) 259-5915	Specialize in production of high-end Victorian moldings, gingerbread, and doors. Wood type: F.A.S. 2-Face Northern Red Oak and C-Select of better Southern Yellow Pine, Poplar.	Free Write in No. 45	✖	✖	✖	✖	✖	✖	✖	30%	
Southeastern Supply Co. PO Box 516, Dept. TB Indianapolis, IN 46206 (317) 359-9551	Custom millwork, wood doors, and complete building materials yard. Wood type: Red Oak, Poplar, Walnut, Cherry, Mahogany, Maple.	Free	✖	✖			✖	✖	✖	85%	
Specialty Wood Co. 835 W. Queen St., Dept. TB Southington, CT 06489 (203) 621-6787	Moldings, flooring, siding, wall & ceiling planking, casings, baseboard, chair rails, crowns, and more. Various hardwoods.	Free Write in No. 709					✖	✖		50%	
Star Moulding & Trim Co. 6606 W. 74th St., Dept. TB Bedford Pk., IL 60638 (708) 458-1040	Architectural moldings, curved moldings, sold hardwood paneling, restoration, rosette blocks, profile sanding, priming, and finishing. Wood type: Foreign and domestic hardwoods.	Free	✖			✖		✖	✖	98%	
Sunshine Arch. Woodwork 2169 Sunshine Dr., Dept. TB Fayetteville, AK 72703 (501) 521-4329	Mantels in paint and stain grade, paneled walls, Colonial shutters, bookcases, moldings, and more. Wood type: Poplar, Oak, Cherry, Walnut, Honduras Mahogany.	Free Write in No. 541			✖			✖	✖	10%	
Walker Bros. Millworks, Inc. PO Box 771093, Dept. TB Winter Garden, FL 34777 (407) 656-2430	Custom residential and commercial architectural woodwork, including: Linear and curved moldings, stairs, paneling, wainscoting, entrance frames, and doors. Wood type: Poplar, Red Oak, or as specified.	Free (Molding catalog also available on CAD disk)	✖	✖	✖	✖	✖	✖	✖	95%	
West Gate Cabinet & Millwk 862 West 13 Ct., Dept. TB Riviera Beach, FL 33404 (407) 842-1701	High-end millwork and case goods. Wood type: as specified.	Free	✖	✖	✖		✖	✖	✖	85%	
White River Hardwood 1197 Happy Hollow Rd. Dept. TB Fayetteville, AR 72701 (501) 442-6986	Manufacturers of architectural hardwood moldings; smooth and ornamentally embossed. Wood type: Red Oak and Poplar.	Free Write in No. 488	✖			✖	✖	✖	✖	50%	
Wigand Corporation 850 Elkton Dr., Dept. TB Colorado Springs, CO 80907 (719) 599-8887	Specialize in manufacture and installation of premium and monumental grade architectural woodwork. Wood type: as specified.	Free	✖	✖	✖		✖	✖	✖	100%	
Windham Millwork PO Box 1358, Dept. TB Windham, ME 04062 (207) 892-3238	Manufacture and install custom woodwork, moldings, and cabinetry. Wood type: Poplar, Oak, Maple, Cherry, Mahogany, Walnut, Birch.	Free	✖	✖			✖	✖	✖	90%	
Wood Factory 901 Harvard, Dept. TB Houston, TX 77008 (713) 863-7600	Victorian designs: Doors, gables, shingles, gingerbread, corbels, molding, and turned parts. Wood type: Redwood & Cedar (exterior), Pine or as specified (moldings), Oak, Ash, Honduras Mahogany (doors).	Free Write in No. 712	✖				✖	✖		50%	
Woodchute Woodworks Box 43, Dept. TB Jerome, AZ 86331 (602) 634-4116	Specialize in windows, doors, mantels, stairs, furniture, and period interiors.	Free Write in No. 699	✖	✖	✖		✖	✖	✖	100%	
The Woodstone Company PO Box 223, Dept. TB Westminster, VT 05158 (802) 722-9217	Traditional and contemporary windows, doors, and architectural woodwork. Wood type: Northeastern White Pine, Mahogany, Cherry, Oak, Teak Walnut, Cypress.	Send \$3 for catalog	✖	✖	✖	✖	✖	✖	✖	100%	
WoodTech Box 69, Dept. TB Columbia Falls, MT 59912 (406) 892-5140	Manufacture fire-rated wood door frames in a variety of profiles. Wood type: Pine, Red Oak, Hard Maple, Mahogany, VG Fir, Cherry, Walnut.	Free Write in No. 700	✖					✖		85%	
Worthington Group PO Box 53101, Dept. TB Atlanta, GA 30355 (404) 872-1608	Specialize in columns and capitals in Ponderosa Pine and Redwood; door surrounds in Mahogany; and mantels in Poplar, Pine, or as specified.	Free Write in No. 163		✖						10%	
Yuenger Wood Moulding 5215 S. Keeler, Dept. TB Chicago, IL 60632 (312) 735-7100	Specialize in embossed hardwood moldings, with emphasis on old, traditional embossings. Also, custom moldings. Wood type: Poplar, Red Oak, Basswood, White Ash, Banak, Ramin.	Free Write in No. 701				✖	✖	✖		90%	

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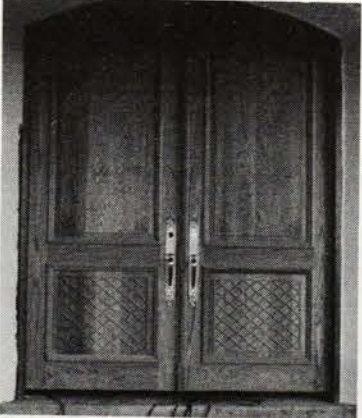
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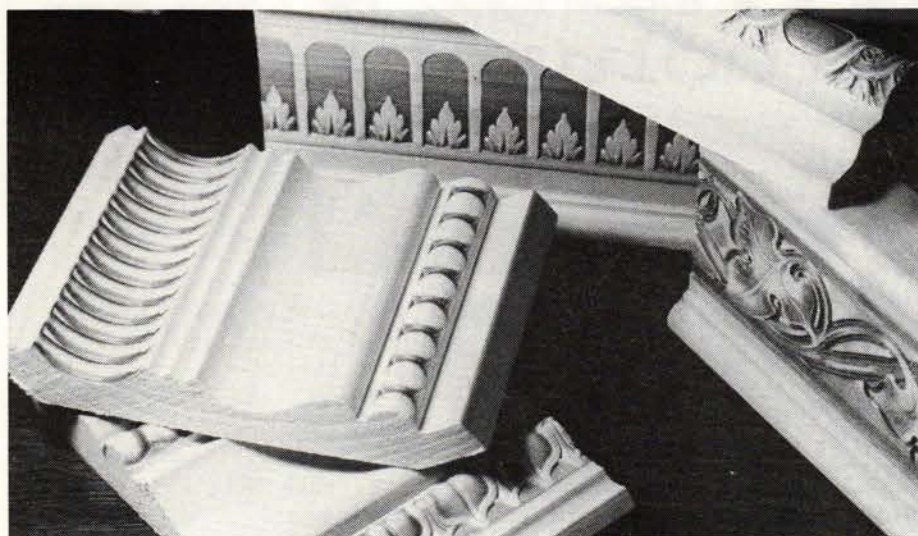
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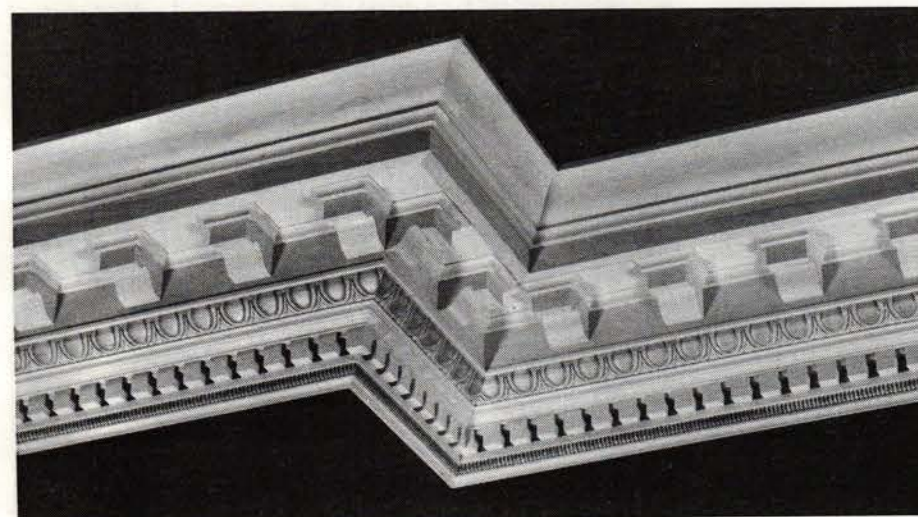
Shown below (and on page 22) is a sampling of historical millwork from a variety of suppliers. For contact information, see the SourceList on pages 14, 16, and 18.



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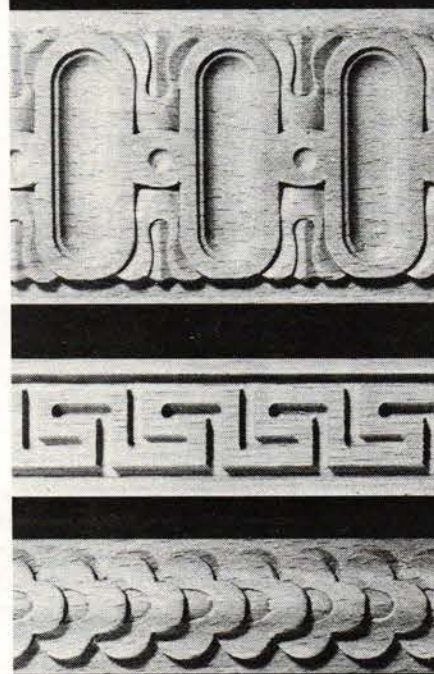
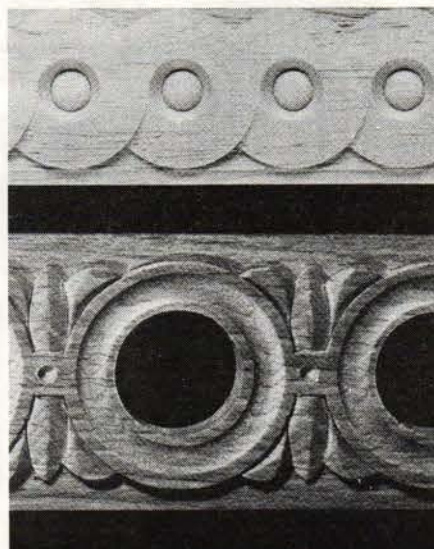
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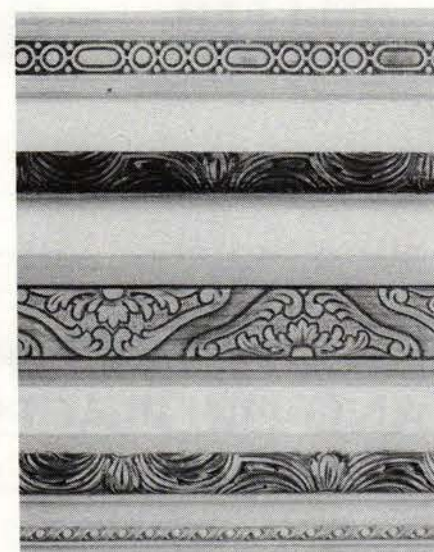
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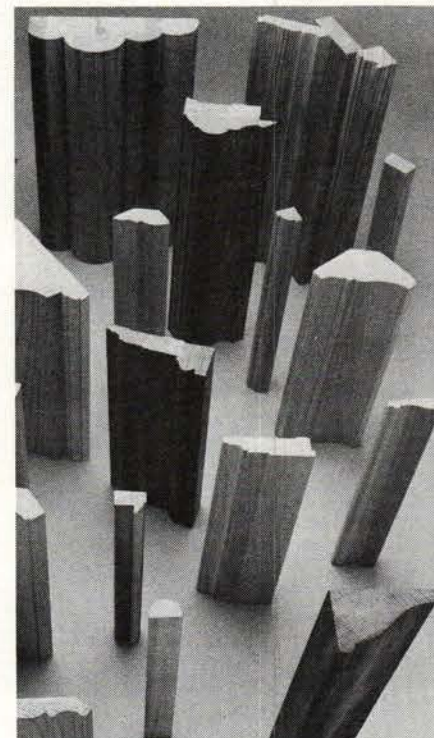
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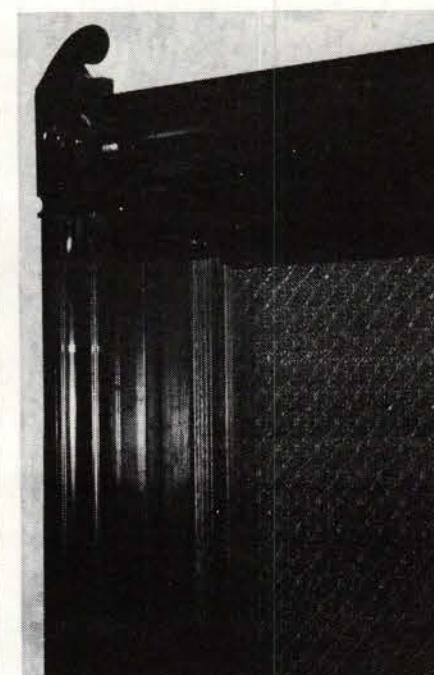
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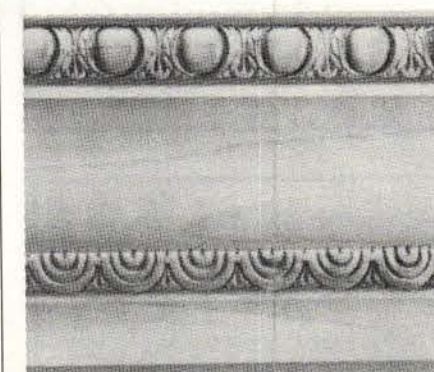
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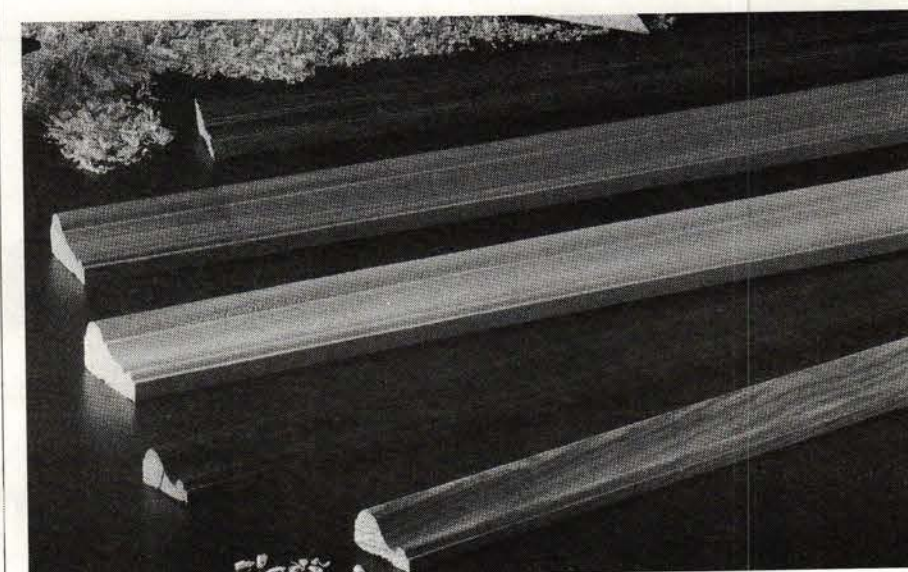
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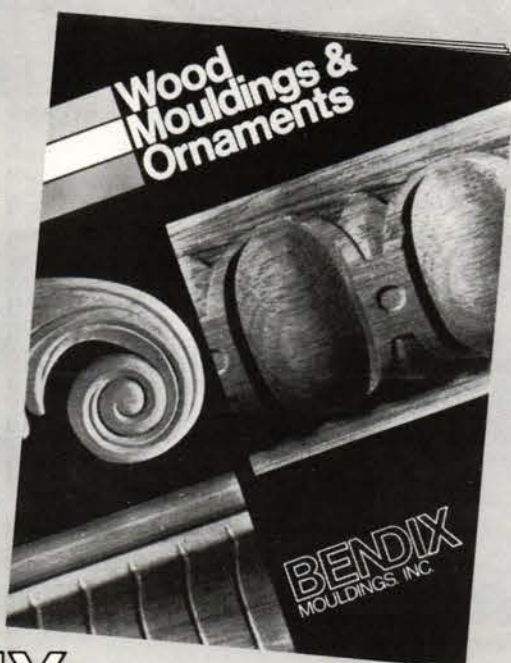
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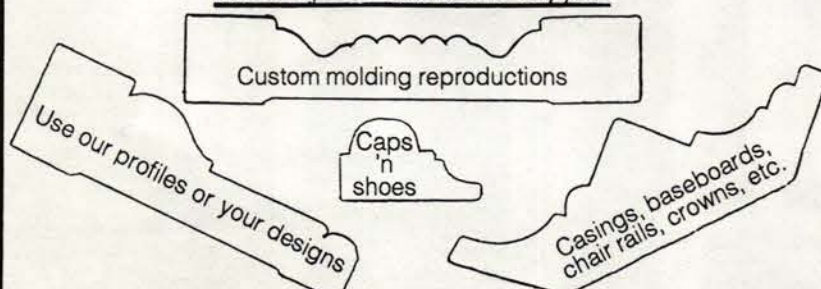
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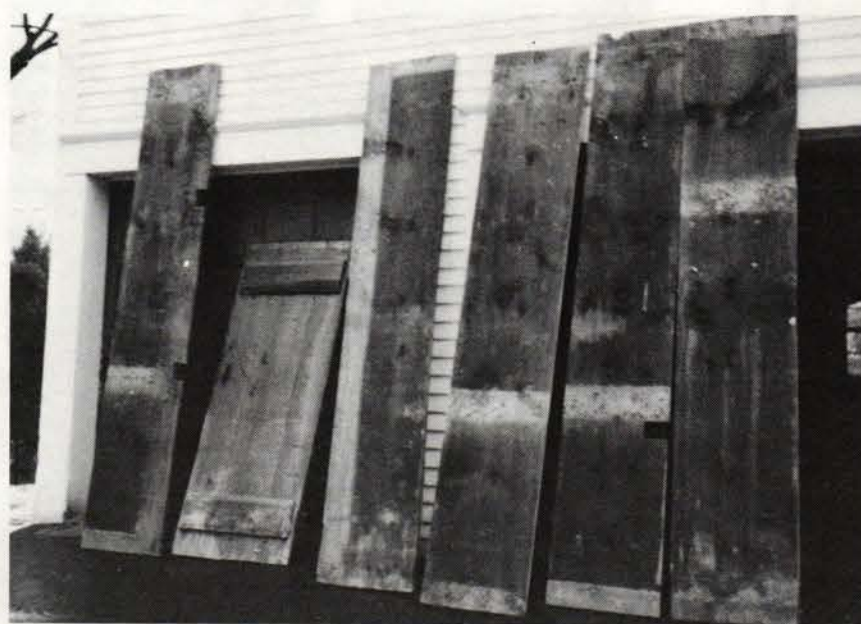
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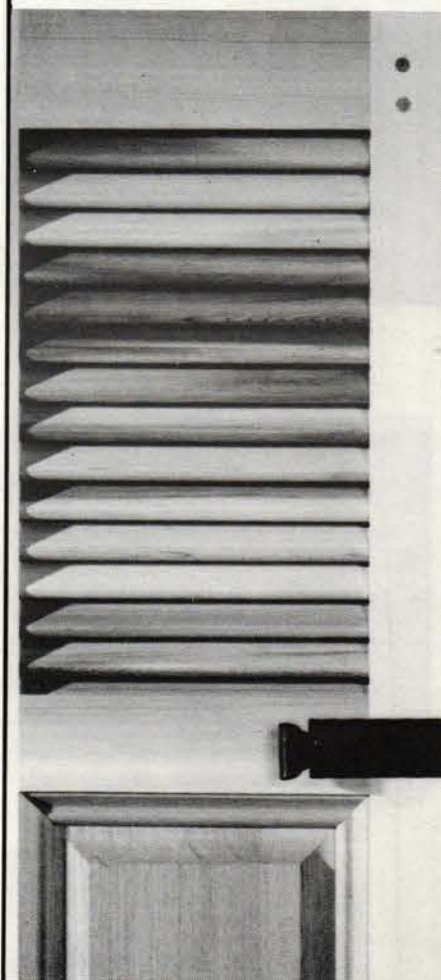
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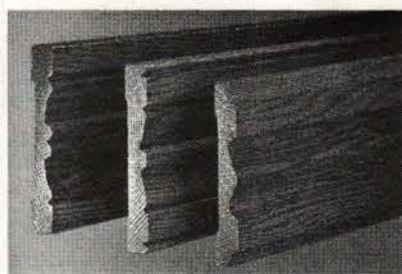
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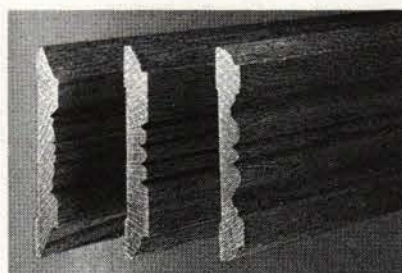
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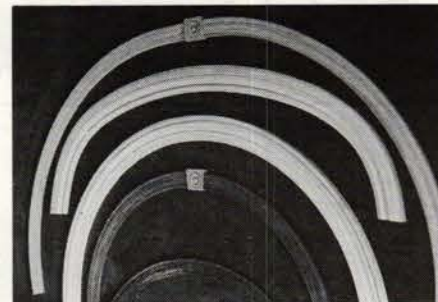
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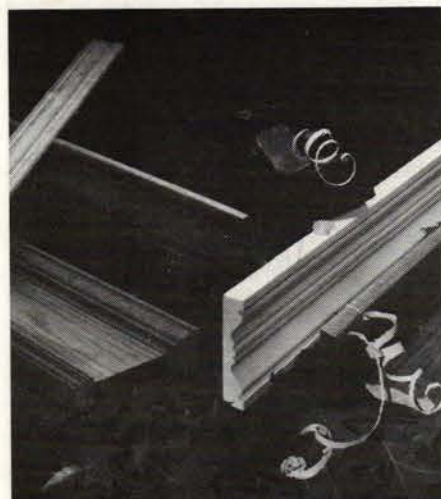
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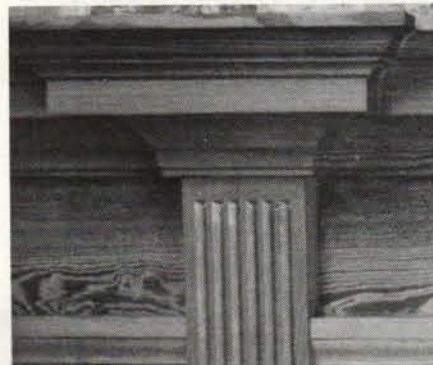
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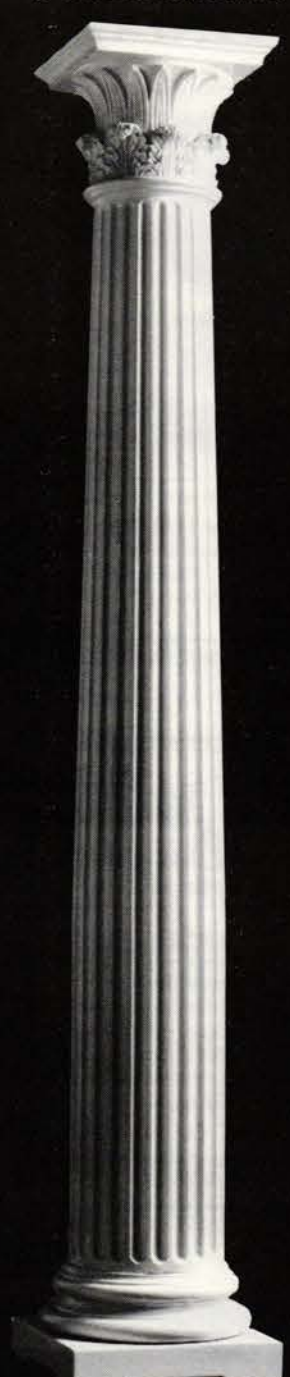
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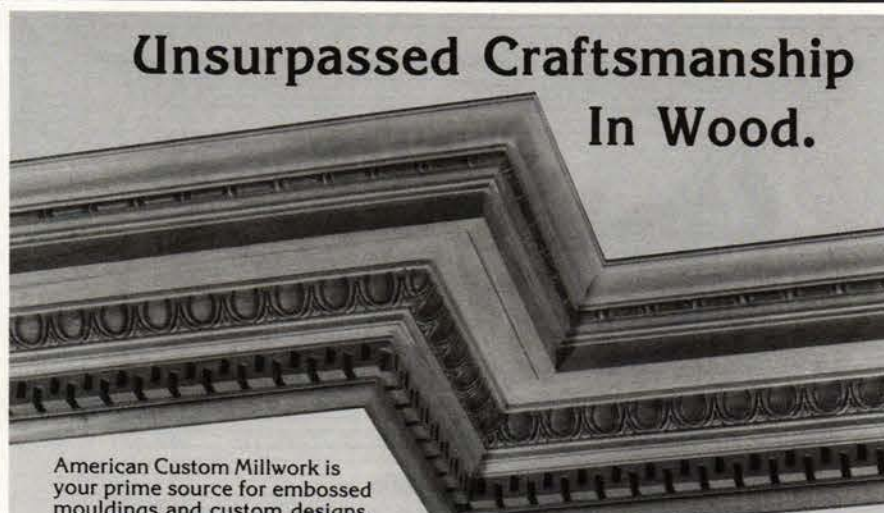
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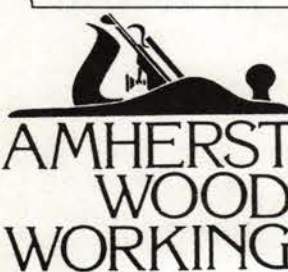
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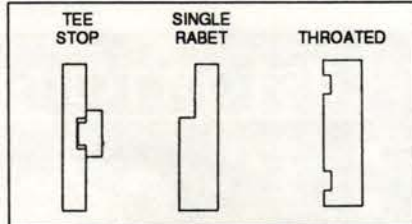
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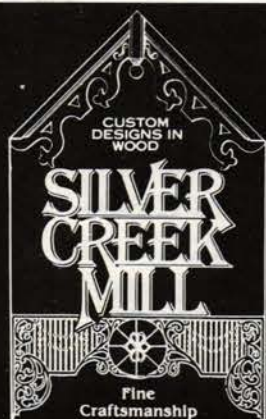
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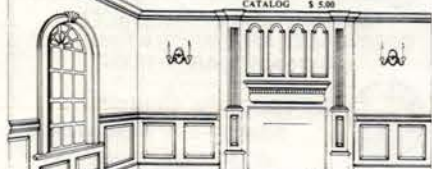
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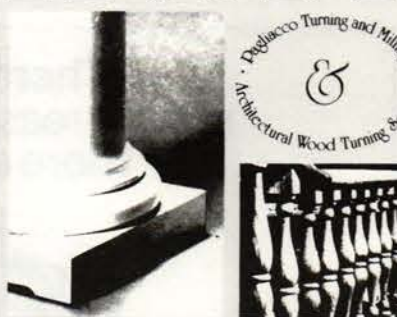
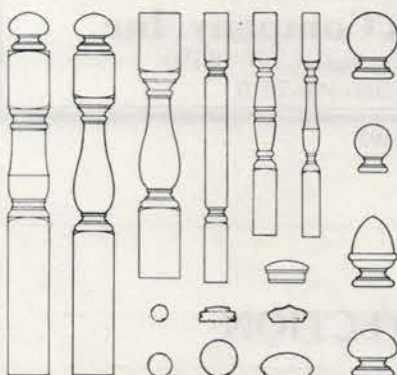
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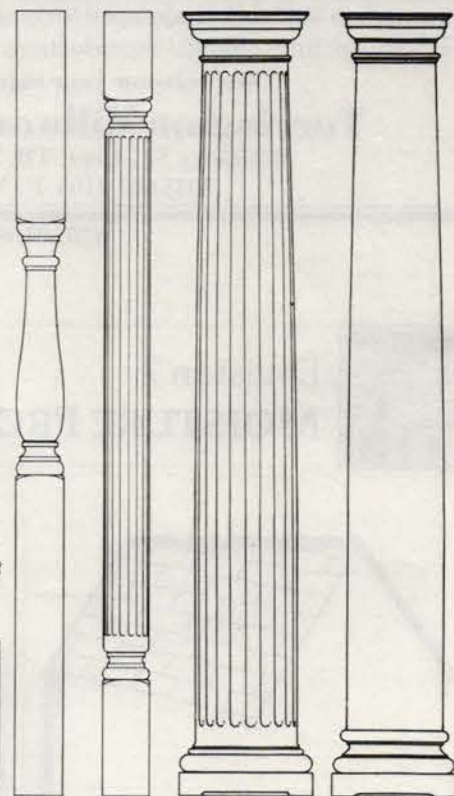
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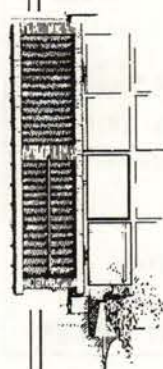
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special report

The Romance Of Wood Shingles

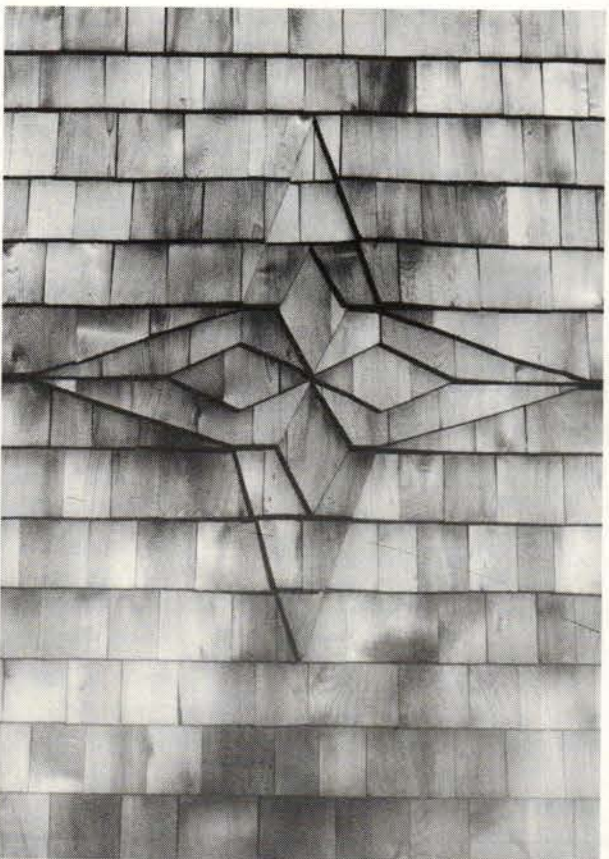
By Clem Labine

Nothing — with the possible exception of slate — makes as handsome a roof as wood shakes or shingles.* The subtle variations in shape, texture, color, and size give a life and vibrancy to a surface that other materials are still trying to imitate. And for sheer exuberance, nothing can match a Queen Anne house with a siding pattern composed of half a dozen different shapes of fancy-cut shingles.

Wood shingles have been widely used in North America for roofing and siding, from the earliest settlements through the 20th century. As a result, there is a wide variety in the size, shape, and fabrication methods of wood shingles through the years. In historic applications, especially, the specifier must be aware of the subtle differences in wood roofing and siding products. A full explora-



A roof restoration with 3/4-in. thick, 18" long, round butt, Tidewater Colonial Shingles custom-cut in white oak by Shamokin Trail Shingle Co.



Example of the shingle installer's art created in heavy-butt Western Red Cedar by Liberty Cedar Co.



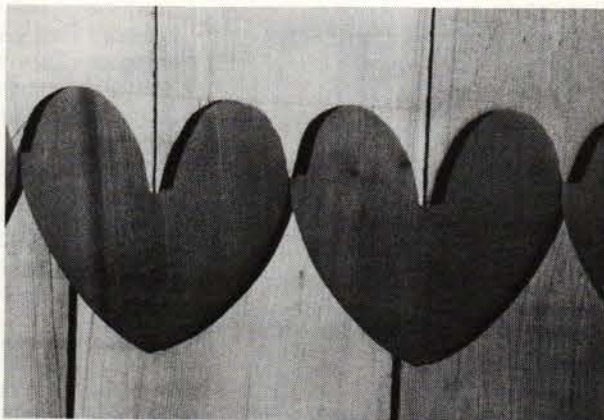
tion of the historic aspects of wood shingles will be found in *Preservation Brief #19* (see below).

Traditionally, wood shingle roofs were expected to last 40 to 60 years. As first-growth cedar became scarce during the past 15 years and fewer builders used proper installation methods (especially the lack of furring strips or nailing lath), the life expectancy of untreated wood roofing products declined. This reduced life expectancy, combined with cost and fire code issues, caused wood shingles to lose market share on all but historic restorations and high-end custom houses.

But that situation has changed — in large part because of the industry-wide "Certi-Last" and "Certi-Guard" product specifications. Certi-Last shakes and shingles are pressure-treated with CCA preservative and carry a 30-year warranty. Certi-Guard shakes and shingles are pressure-treated with fire retardant for areas where combustion hazard is a major issue. The Certi-Guard and Certi-Last trademarks (as well as "Certi-Split" and "Certi-grade") appear on products manufactured according to industry standards established and supervised by the Cedar Shake & Shingle Bureau.

In the box on page 29 you'll find some critical

factors to pin down when specifying a wood shingle roof — for either replacement or new construction. ♦



Detail of an interior wall panel created by The Cedar Guild to show design possibilities created by overlapping shingles with different colors and butt cuts.

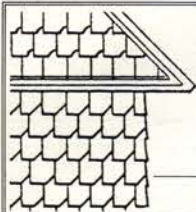
* Manufacturers today use the term "shakes" to refer to split products and "shingles" to designate sawn products. Historically, however, the term "shingle" was used to refer to both sawn and split wood roofing and siding materials.

TECHNICAL ASSISTANCE: The trade association for the cedar shake and shingle industry, in addition to supplying copious amounts of technical literature, also provides technical support to architects and contractors who are specifying and installing cedar shingles. The association has field representatives for on-the-spot consultation, in addition to a central technical service staff. **CEDAR SHAKE & SHINGLE BUREAU, 515 116th Ave. N.E., Suite 275, Dept. TB, Bellevue, WA 98004 (206) 453-1323.**

REPLACING HISTORIC WOOD SHINGLES: A useful guide to the technical and preservation factors governing replacement of wood shingle roofs on historic structures is the 12-pg. brochure prepared by Sharon C. Park, AIA: *Preservation Brief #19 — The Repair and Replacement of Historic*

Wooden Shingle Roofs. Obtain a copy by sending \$1 for Stock No. 024-005-010530 to: **Supt. of Documents, Government Printing Office, Washington, D.C. 20402.**

MAINTAINING WOOD SHINGLE ROOFS: Most property owners don't realize that proper maintenance can materially lengthen the life of wood shingle roofs. Attack by ultraviolet rays, as well as water, can cause wood shingles to break down prematurely. This technical manual offers detailed procedures and preservative formulas — as well as sample specs for cedar shake and shingle roofs so that they'll meet tight local building codes. "How To More Than Double The Life Of Your Roof" can be ordered for \$15 from: **THE CEDAR GUILD, 51579 Gates Bridge East, Dept. TB, Lyons, OR 97358 (503) 897-2541.**



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Cedar Shake & Shingle Bureau 515 116th Ave. NE, Dept. TB Bellevue, WA 98004 (206) 453-1323	Trade association that represents over 250 shake and shingle mills. Develops manufacturing and application standards, including the Certi-Last (30-yr. warranty), Certi-Guard, Certi-Split, and CertiGrade trademarks. Also provides in-depth technical assistance to professionals on proper use of cedar shingles.	Free <i>Write in No. 675</i>	✓	✓	✓	Western Red Cedar, Redwood	NA
Cedar Valley Shingle Systems 943 San Felipe Rd., Dept. TB Hollister, CA 95023 (800) 521-9523	Produces premium-grade architectural cedar shingle siding panels in exposures of 4", 5", or 7" to weather, with either straight or staggered butt line. All panels are 96" x 21" regardless of exposure. Matching prefabricated corners available. Also: Single fancy-cut shingles in boxes.	Free <i>Write in No. 676</i>	✓		✓	Western Red Cedar	10%
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Liberty Cedar 535 Liberty Lane, Dept. TB W. Kingston, RI 02892 (401) 789-6626	Specializes in heavy tapered sawn shingles and shakes: 5/8" and 3/4" butts in lengths of 18" and 24". Fire retardant treating and CCA treating for extended roof life are available. Also: Hip/ridge caps, stainless steel nails, stock and custom fancies.	Free <i>Write in No. 653</i>	✓	✓	✓	Western Red Cedar, Eastern White Cedar	55%
LWO Corp. P.O. Box 17125, Dept. TB Portland, OR 97217 (503) 286-5372	Produces a line of fancy-butt Western Red Cedar decorative shingles. Four traditional profiles: Round, fishscale, arrow, and diamond. Other patterns on special order. The 18" long shingles are parallel-cut to 4-15/16" wide.	Free			✓	Western Red Cedar	0%
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Shingle Mill, Inc. 73 Stuart St., Dept. TB Gardner, MA 01440 (508) 632-3015	Manufactures custom wood shingles for roofing and siding in historical work. Wide variety of special architectural shapes: butts from 1/4" to 3/4"; lengths from 8" to 21"; widths from 3-1/2" to 9".	Free	✓	✓	✓	Eastern White Pine	100%
Shakertown Corp. 1200 Kerron St., Dept. TB Winlock, WA 98596 (206) 785-3501	Produces fancy-cut shingles in 9 patterns — either as individual shingles or panels. The 8-ft. panels come with 5" or 7-1/2" exposures.	Free			✓	Western Red Cedar	0%
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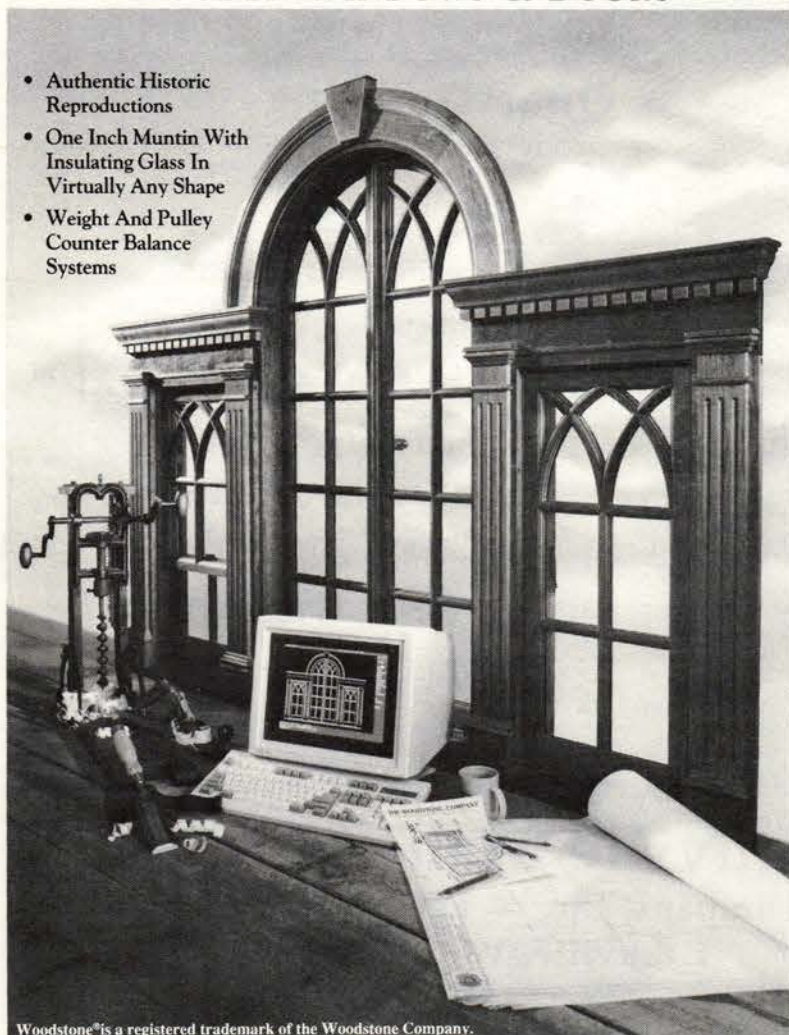
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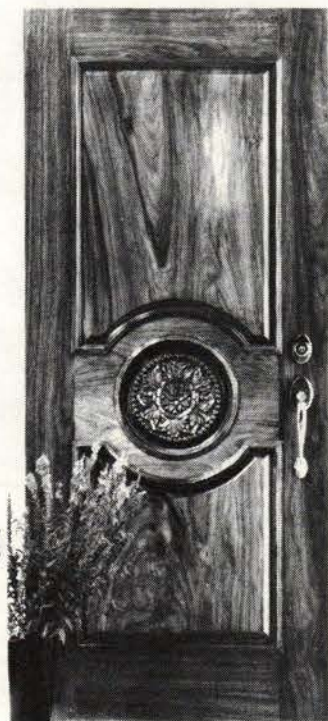
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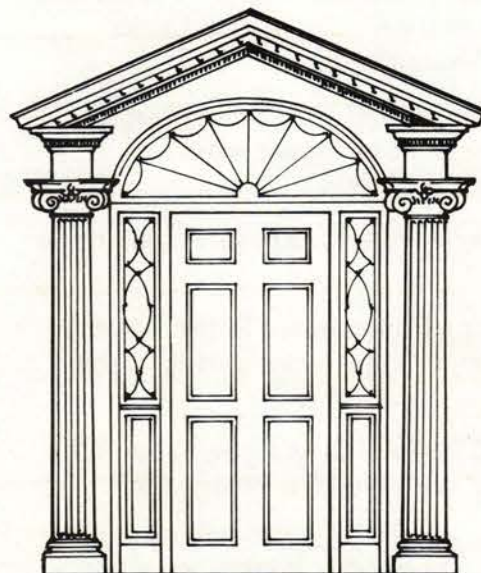
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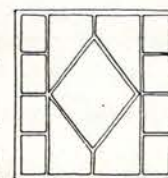
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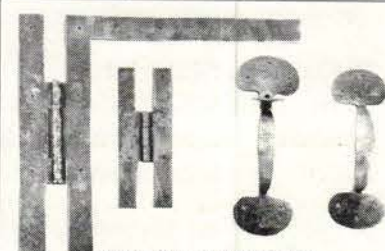
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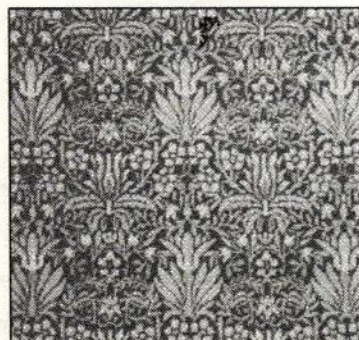
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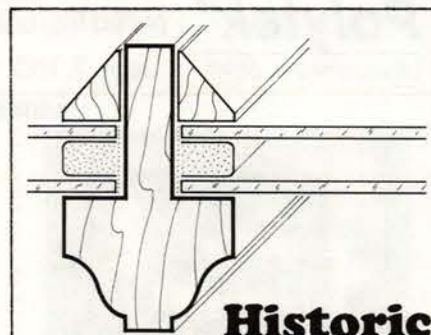
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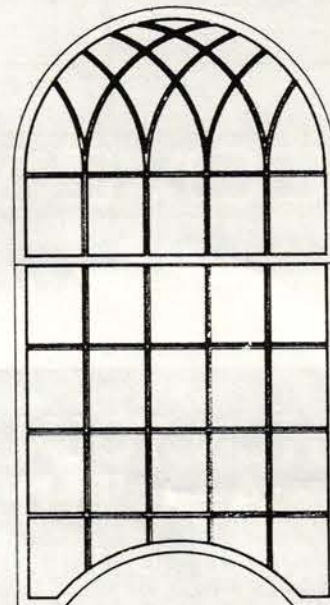
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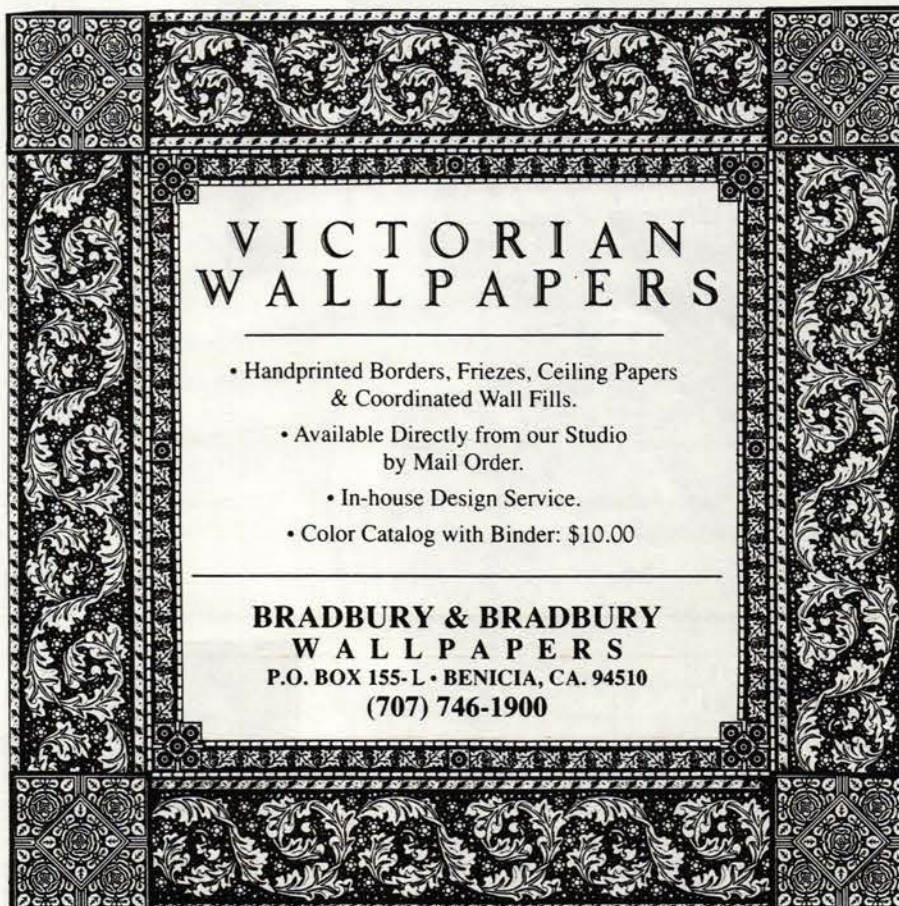
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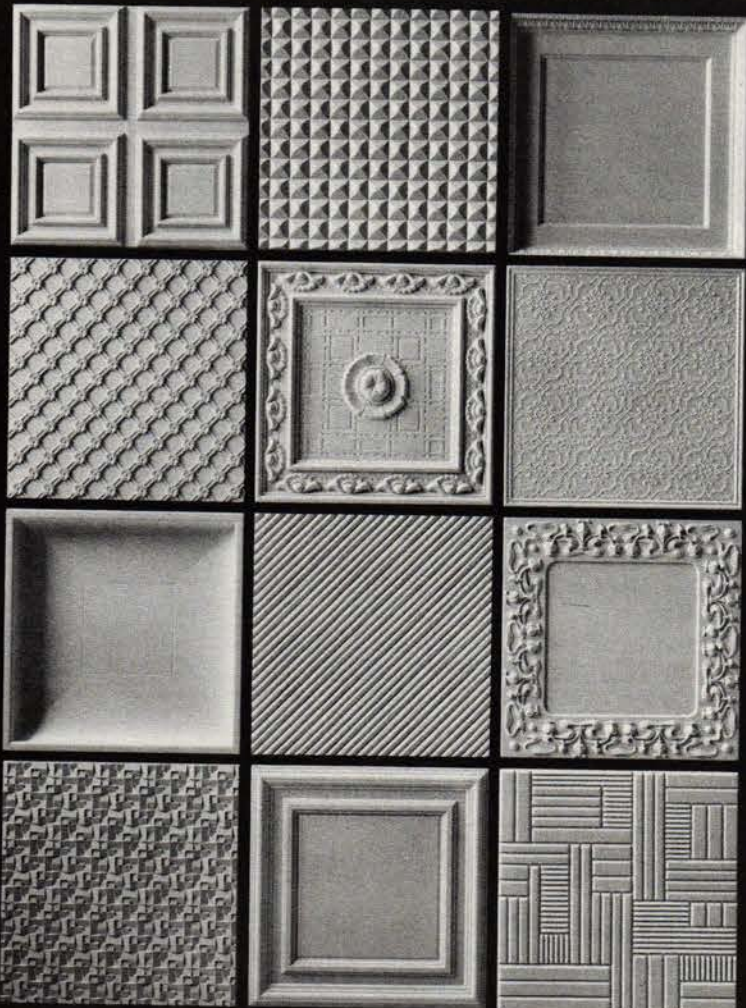
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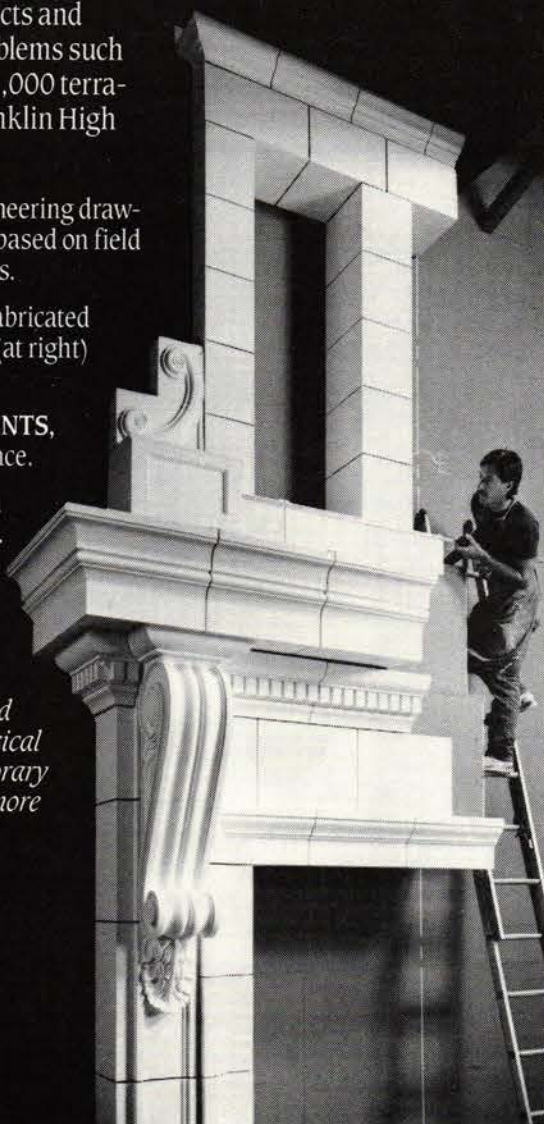
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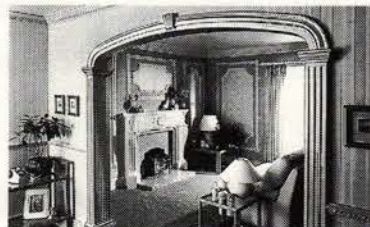
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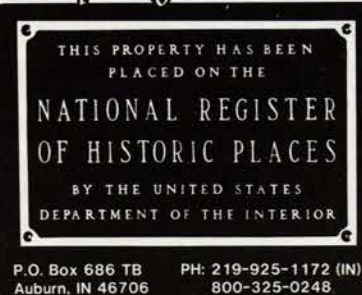
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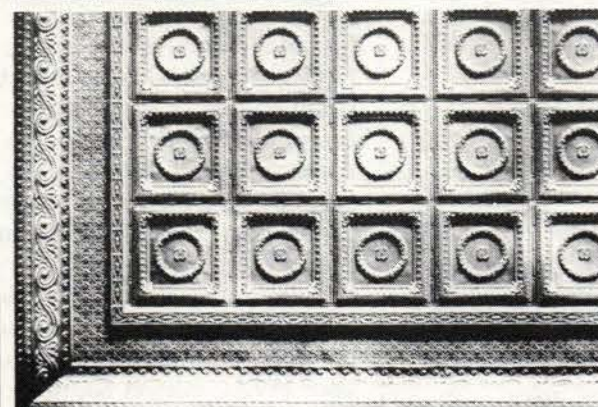
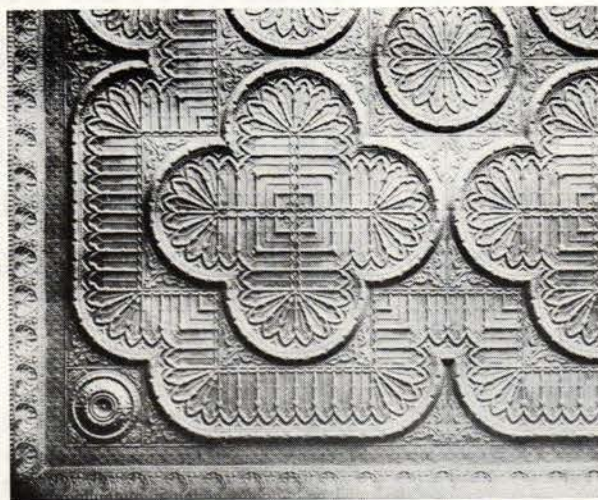
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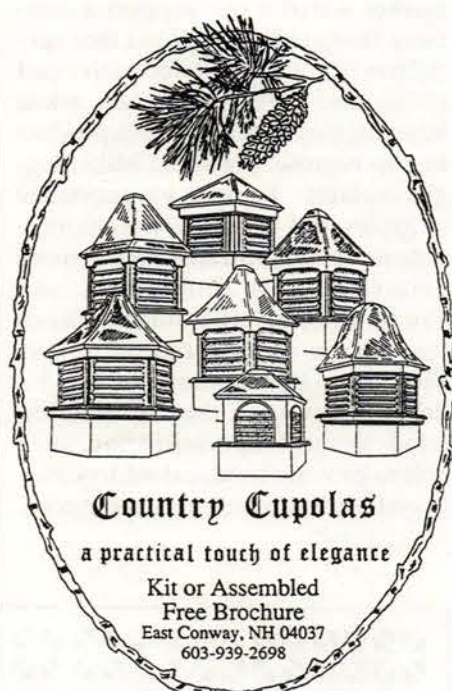
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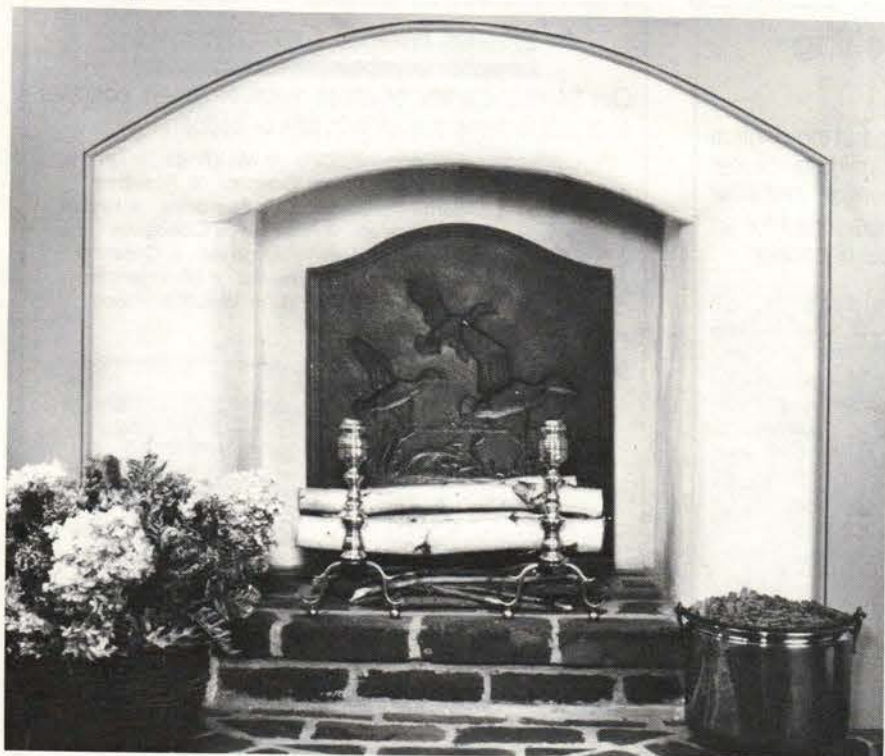
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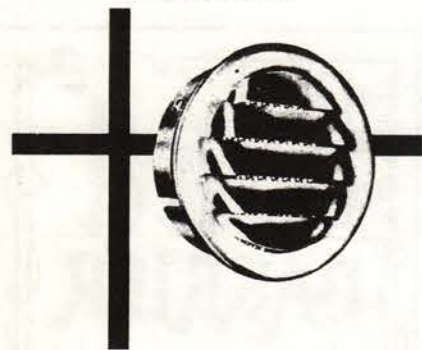
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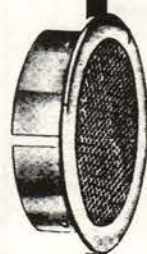
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special report

Sizing Up Grilles & Registers

To provide the finishing touch on your HVAC ducts, you have the choice of everything from plain-vanilla stamped steel registers to highly decorative grilles in cast brass, iron, aluminum—or even wood.

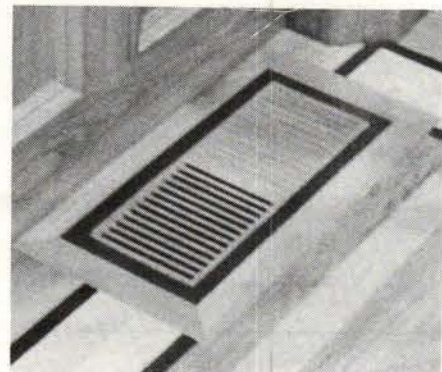
■ BY CLEM LABINE

THE PLAIN FACTS: If function, engineering precision, and cost are the controlling factors in the selection of grilles and diffusers for a job, you'll probably wind up selecting a stamped steel or aluminum unit from one of the major suppliers. (A few of these suppliers are included in the SourceList on page 36). The big companies supply a vast range of products that will channel air in any direction or fashion you wish. And their product literature provides enough engineering data to keep your HVAC person happily crunching numbers for hours.

However, if aesthetic or historical considerations play a big part on a job, chances are you'll select decorative registers (with air control louver) or grilles (without louvers) from one of the specialty suppliers shown in the SourceList. You won't have as wide a range of products and sizes to choose from, and you won't have charts full of engineering data to toss at your HVAC specialist. But you'll end up with a unit that will function satisfactorily—and will be more visually appealing than plain-vanilla diffusers.

One unusual aspect of this market is that it can support a company (Reggio Register Co.) that specializes in nothing but decorative cast grilles and registers. When asked how Reggio can thrive with a product line so narrow, president Mike Reggio explains: "Because we specialize in grilles and registers, we can provide more standard sizes (30) in more materials (cast iron, brass, and aluminum) than other supply houses that sell lots of other things." Also, Mike says that because of the in-depth knowledge they've accumulated through specialization, he's able to provide technical information to system designers on the more complicated jobs.

A relatively new player in the decorative grille market is American Home Supply. Their expertise is in cast brass; they don't produce anything in cast iron or aluminum. According to American Home's factory liaison officer, Bob Rubio, the company's claim to fame in grilles is the precision of the finish. He says that the raw brass castings are first run through a large milling machine to create square, true edges and a perfectly flat surface. "We've also had a machine built especially for polishing brass grilles," Bob says. "The two



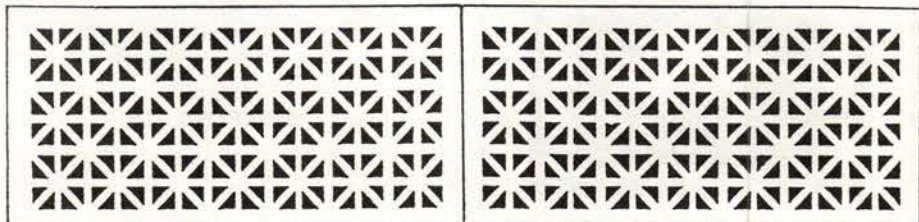
Triarco: Wood air vents in a wide range of hardwoods.

buffing heads can exert up to 400 psi. on the brass, much higher than you can get with hand polishing." The end result, he declares, is a very smooth, even appearance across a large surface area.

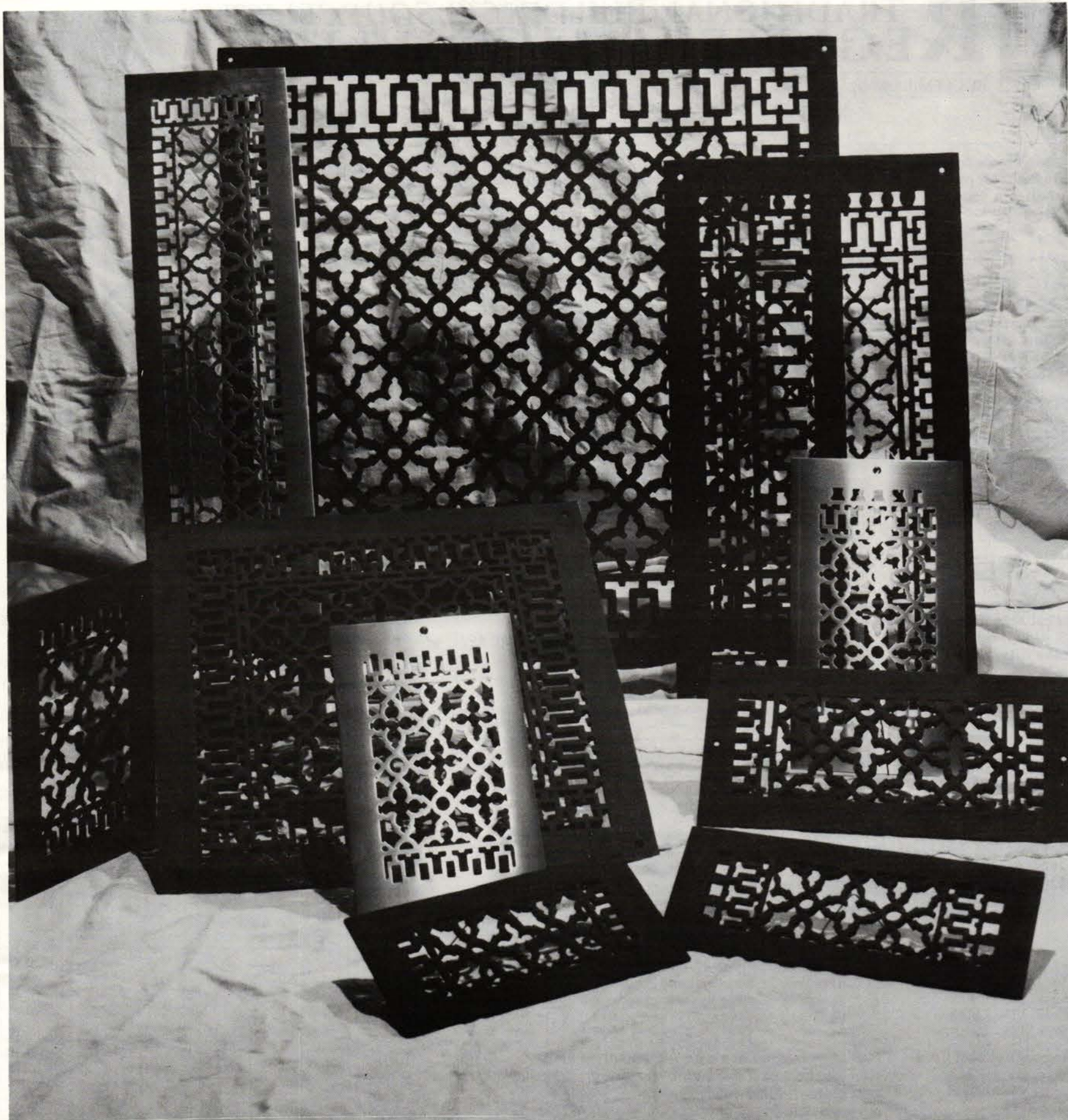
The Size Nightmare

Many of the problems in decorative cast grilles are size-related. Tim Judge, proprietor of The Antique Hardware Store, says (only partly in jest): "Selling registers is a nightmare! People call and say 'I want one just like in your catalog, but 2 inches longer and 1 inch wider.' As soon as they find out what custom registers cost, however, the majority quickly decide they can make do with one of our standard models."

continued on page 37



Register & Grille Mfg.: Custom stamped grilles.



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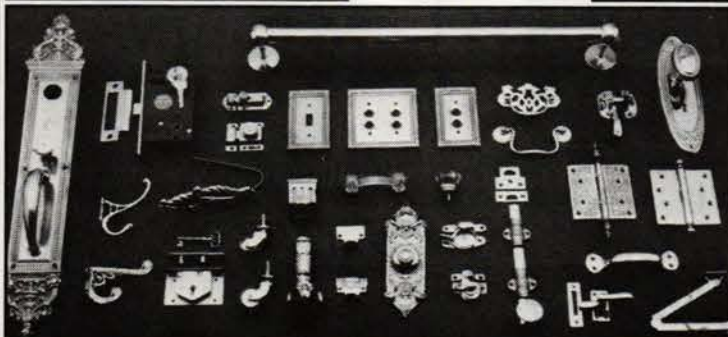
<div><div></div><div><div>TRADITIONAL BUILDING'S SOURCELIST</div><div>REGISTERS & GRILLES</div></div></div> <div>CSI# 15880</div>									
BY CLEM LABINE									
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American Home Supply P.O. Box 697, Dept. TB Campbell, CA 95009 (408) 246-1962	Sells cast solid brass grilles. They are especially proud of their "Auto-power" polishing machine which, by polishing a large surface area in a single pass, assures a flat smooth final product — avoiding the wavy surface that can result from hand polishing. Smallest size: 2-1/4" x 10". Largest: 14" x 18".	Catalog \$2 <i>Write in No. 672</i>		✓					5%
Antique Hardware Store R.D. 2, Box 4, Dept. TB Kintersville, PA 18930 (215) 847-2447	This purveyor of a wide range of period hardware, plumbing, and lighting fixtures offers a selection of cast brass and cast iron floor registers — including a round register made to fit an 8" hole. Largest size rectangular register: 20-1/2" x 16-1/2".	Free <i>Write in No. 673</i>	✓	✓					5%
Grillworks P.O. Box 343, Dept. TB Spring Park, MN 55384 (612) 471-8717	Manufacturer of wood grilles that accommodate a standard metal register (to control air flow) just below the wooden grille. Red oak drop-in models fit standard duct openings from 2-1/4" x 12" through 6" x 16". Come prefinished or unfinished.	Free						✓	15%
Historical Arts & Casting 1939 S. 4130 West, Unit F Salt Lake City, UT 84104 (801) 974-0242	Custom foundry produces all types of cast metal architectural ornamentation — including grilles. Will work to client's drawings — or they can produce patterns from their extensive design library. No stock products.	Free <i>Write in No. 121</i>	✓		✓	✓			100%
Krueger P.O. Box 5486, Dept. TB Tucson, AZ 85703 (602) 622-7601	Wide selection of stamped and extruded registers, grilles, diffusers — plus security grilles and registers — in contemporary designs.	Free					✓		10%
Lima Register P.O. Box 28, Dept. TB Lima, OH 45802 (419) 228-1411	A wide range of contemporary-styled registers, grilles, diffusers, sized to fit every standard duct. Residential and commercial models. Capabilities to manufacture almost any size from 6" x 4" to 8' x 6' (and larger if needed).	Catalog \$1					✓		10%
Brian Leo Custom Hardware 7532 Columbus Ave. S. Dept. TB Richfield, MN 55423 (612) 861-1473	Small custom hardware manufacturer makes, among many other things, cast grilles to your specifications and drawings.	Free	✓	✓	✓	✓			100%
The Reggio Register Co. P.O. Box , Dept. Z103 Ayer, MA 01432-0511 (508) 772-3493	Manufacturer of a complete line of cast iron, cast aluminum, and cast brass decorative grilles and registers based on historic originals. Has stock models that will fit standard ducts from 2-1/4" x 10" to 30" x 30".	Free <i>Write in No. 581</i>	✓	✓	✓				10%
Register & Grille Mfg. Co. 202 Norman Ave., Dept. TB Brooklyn, NY 11222 (718) 383-9090	Custom manufacturer of decorative stamped grilles made in steel, aluminum, or bronze in a variety of finishes and designs. Custom linear bar grilles for wall, floor, or ceiling in aluminum or solid bronze in various finishes.	Free					✓		85%
Registers Unique, Inc. 175 Chesterfield Industrial Blvd. Dept. TB St. Louis, MO 63005 (800) 874-6027	Solid brass cast floor registers manufactured in two patterns: A simple contemporary design or traditional Victorian. They come in a variety of sizes in polished brass, antique brass, and chrome.	Free		✓					10%
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Wood Ventures P.O. Box 563, Dept. TB Grass Valley, CA 95945 (916) 272-4972	Wood air grilles available in two models: Self-rimming and flush mount. All models are stocked in both red and white oak, and in all common duct sizes. Custom sizes accommodated.	Free						✓	25%



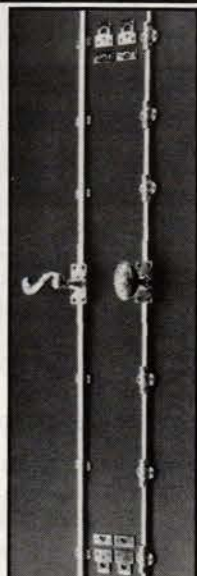
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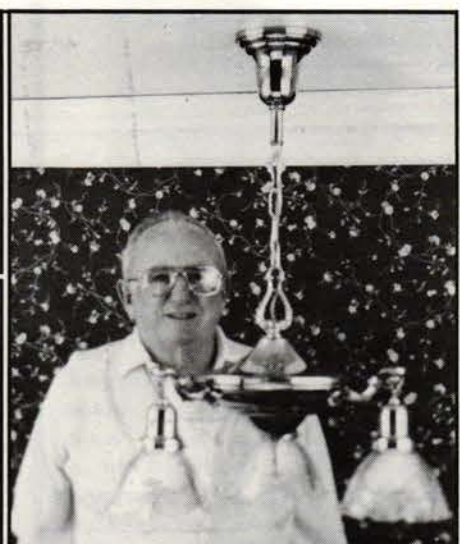
ZF-10 Beautiful heavy cast Solid Brass polished & lacquered 4" center faucet set w/- porcelain lever handles & free brass sink pop-up set---only \$95.00
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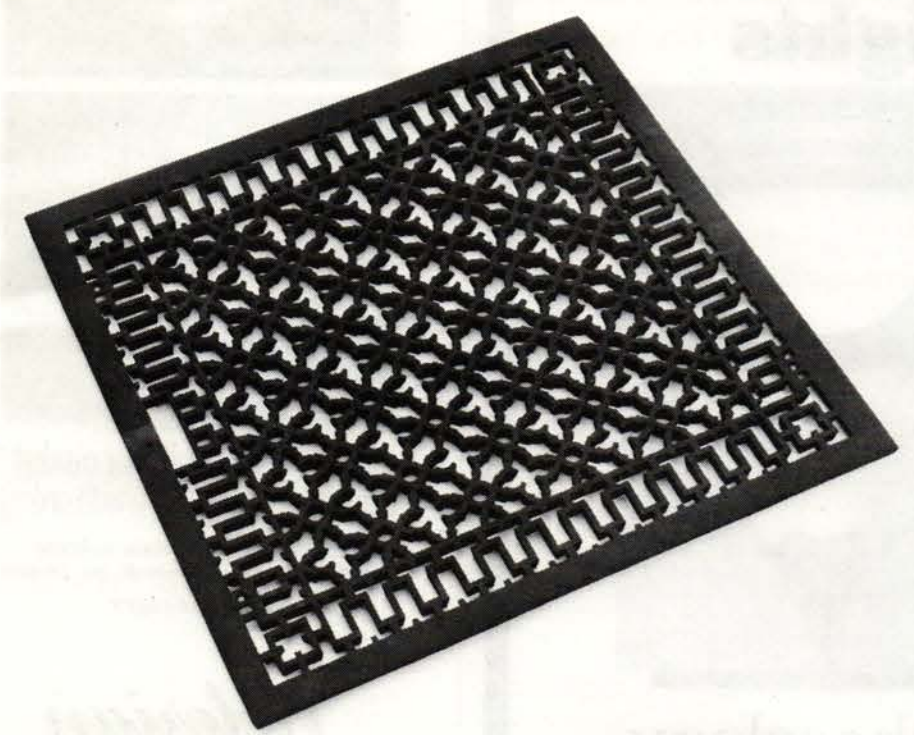
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WRITE IN NO. 672

Registers & Grilles, continued from page 34



Reggio Registers: Widest selection of cast grilles & register

Because decorative grilles and registers is a specialty market, suppliers can't pay for tooling and inventory to cover every possible request; they have to stick to sizes and styles that the bulk of the market is asking for. On new systems, of course, it's possible to size ductwork so as to take advantage of the closest standard size. And on retrofit jobs, you can usually adapt an old duct to a stock register by splicing in a new section

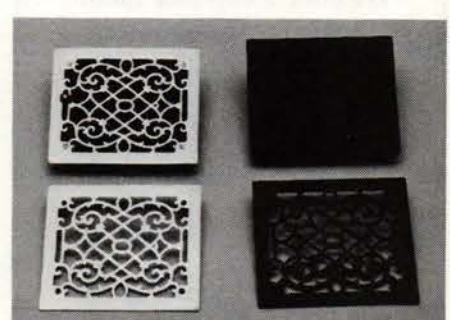
of sheet metal to make the transition.

Materials Limitations

With cast metal registers, there aren't many application limitations. One caution: With lacquered brass grilles --- because of the tarnish factor --- it's probably best to avoid floor installations in kitchens and baths where water is present. Also, in high-traffic areas, lacquered brass floor registers can suffer partial wearing away of the

lacquer --- which may require stripping and refinishing.

Wood grilles have enjoyed increasing popularity in the past couple of years because of their ability to complement wood interiors. Unlike metal, however, wood is affected by changes in temperature and humidity. So if you're considering wood grilles, be sure you deal with a company whose products have a track record in the type of heating or air-conditioning application you're considering. ♦



Antique Hardware Store: Patterns in both cast brass & iron.

SPECIFICATION FACTORS FOR DECORATIVE GRILLES & REGISTERS

■ **MEASUREMENTS:** Grilles and registers are normally referred to by the dimensions of the hole or ductwork it is meant to cover (NOT the outer dimensions of the grille). This sometimes causes confusion with property owners who aren't familiar with this measurement convention.

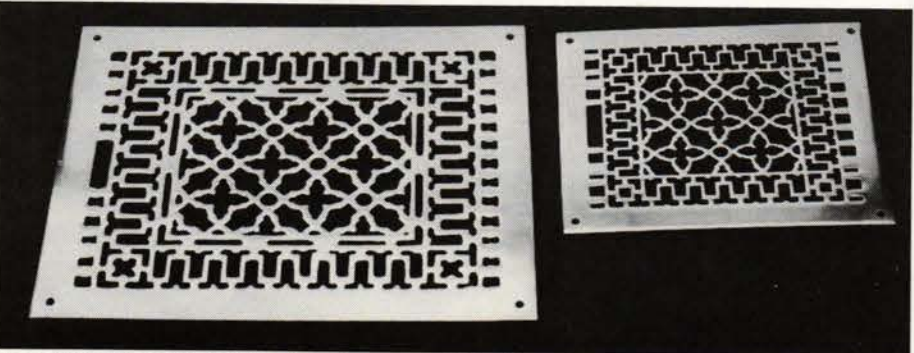
■ **SIZES:** Be aware that cast registers and grilles do not come in every conceivable size. If you don't find the size you want in a catalog, it means (1) You have to have a custom unit made (which is quite expensive); or (2) You'll have to do some sheet metal work to adapt the duct to accommodate a stock unit.

■ **ENGINEERING FACTORS:** Product literature for decorative grilles does not contain the kind of performance data on CFM, pressure drop, outlet velocity, horizontal throw, etc., that you find for conventional steel grilles. If your HVAC specialist is clamoring for this kind of data, call the vendor. They may be able to supply *some* information that will help.

■ **FINISH:** Castings should have no burrs, sharp edges, or pin holes. The surface should appear flat and free of surface defects and blemishes. For the highest polish on cast brass, specify a US3 finish.

■ **LOUVERS:** Air flow control louvers are sometimes attached to the back of the register; other times, louver units (designed to be attached directly to the duct) are sold separately from the grille. Some building codes require louvers attached to the register, so check your local code.

■ **THICKNESS:** If a grille or register is being used on the floor, and it may be subject to unusual loads, check metal thickness and the rated load-bearing capacity.



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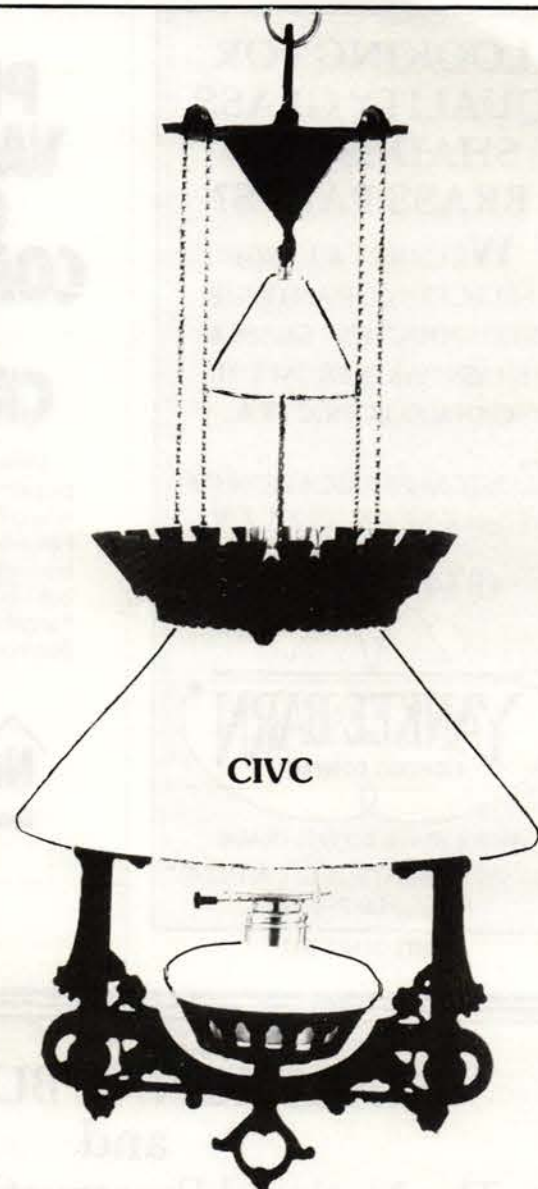
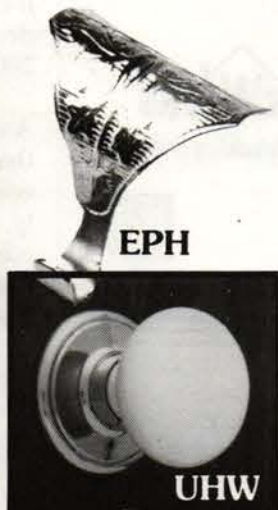
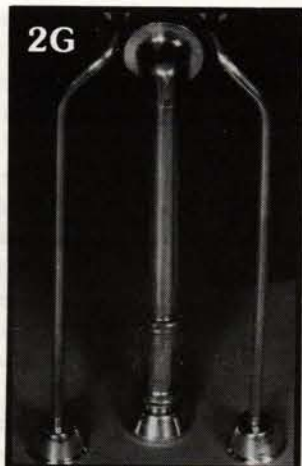


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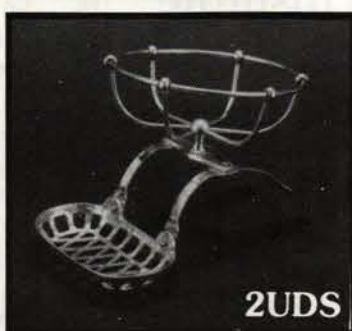
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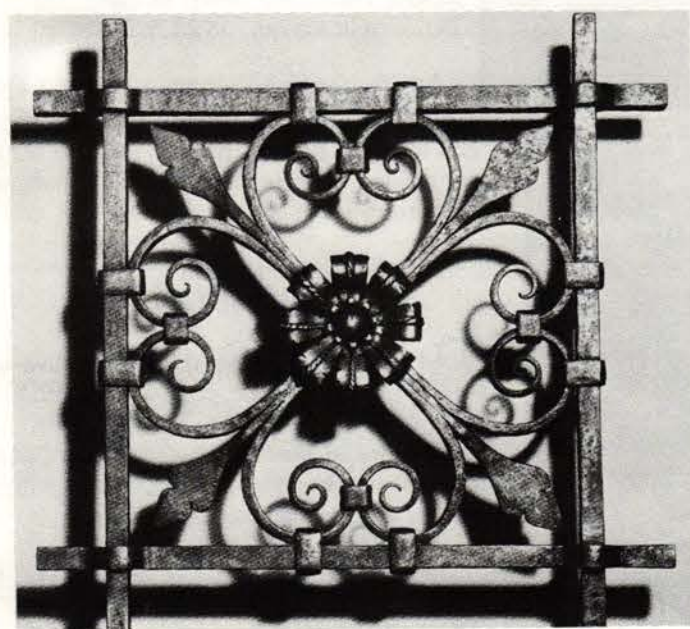
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Division 17 BOOK REVIEWS

GRAPHIC STANDARDS FOR THE REHAB GENERATION

TRADITIONAL DETAILS FOR BUILDING RESTORATION, RENOVATION, AND REHABILITATION. Edited by John Belle, FAIA, RIBA, John Ray Hoke, Jr., AIA, and Stephen A. Kliment, FAIA. John Wiley & Sons. 285 pp. Hardcover. \$75.00 ppd. from Wiley Book Orders — Dept. TB, 1 Wiley Dr., Somerset, NJ 08875 (201) 469-4400.

Probably no single event symbolizes the changes sweeping through the architecture and building industries as the appearance of this new volume from John Wiley & Sons. *Traditional Details* is a collection of period building details designed to assist people working on buildings erected in the first half of the 20th century... a sort of *Graphic Standards* — *Antique Edition*.

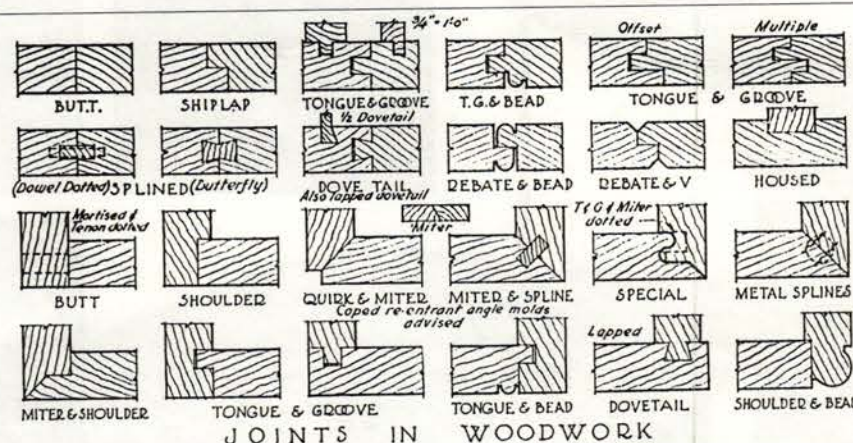
The volume contains selected plates from the first four editions of *Architectural Graphic Standards* published between 1932 and 1951... material that does not appear in the 8th edition, published in 1988. (In fact, the 1988 edition contains only two-thirds of a single page from the 1932 edition.) Obviously, a lot of material got dropped by the wayside in the effort to keep successive editions of *Architectural Graphic Standards* abreast of modern building practice. But the dropped material is clearly of value to practitioners working on buildings constructed according to those earlier editions of *Graphic Standards*.

The editors of *Traditional Details* sifted through the castoffs from the main edition to see what would be relevant to today's historical architect and renovation contractor. In his introduction, John Belle emphasizes that the volume is designed to be a working tool — not a historical curiosity.

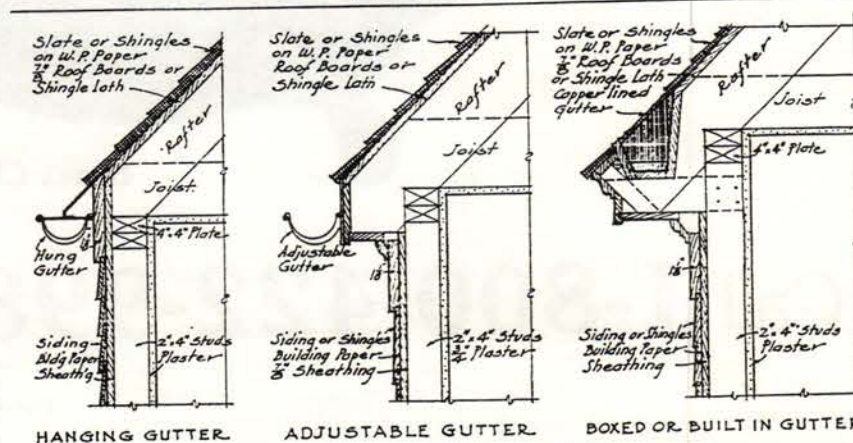
The old plates have been organized into 11 sections, roughly comparable to the major CSI divisions: General Planning & Design Data; Foundations & Sitework; Masonry; Metals; Carpentry; Thermal & Moisture Protection; Doors, Windows & Glass; Finish Materials; Specialties & Equipment; Furnishings; Mechanical, Electrical & Plumbing.

It's an extremely valuable volume for anyone who has to understand how early 20th-century buildings were put together... or who has to detail repairs on structures of this vintage. Among the more than 2,600 details, you'll find such things as how to design a Boston hip on a slate roof (p. 131); joist hanging methods in balloon framing (p. 94); the geometry of a brick Tudor arch (p. 64); and how to frame residential steel casement windows (p. 162).

After looking through *Traditional Details*, historical architects and restoration contractors are likely to exclaim: "At last, *Architectural Graphic Standards* for the rest of us!" ♦ — CL



EAVES



THE MOST IMPORTANT ARCHITECTURAL BOOK IN 10 YEARS!

HUMANE ARCHITECTURE

NEW CLASSICISM. Edited by Andreas Papadakis and Harriet Watson. Rizzoli. 264 pp. profusely illustrated. Hardcover. \$67.50 ppd. from: Rizzoli International — Book Sales, 300 Park Avenue South, Dept. TB, New York, NY 10010 (800) 433-1238.

For those of us who believe the re-exploration of architecture's classical roots is the most important trend in design today, Rizzoli has just provided an important touchstone: *New Classicism*. This book contains a serious examination of the work and thought of the world's leading architects practicing in the classical tradition.



Allan Greenberg: Treaty Room, Department of State, Washington, D.C.

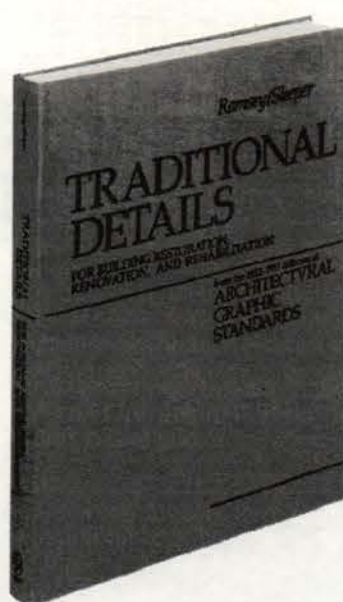
The volume is far more than a look at the latest ways of handling columns, capitals, and pediments. It provides a serious exploration of the human values that classicism offers the late 20th century world . . . especially in urban projects. It moves far beyond the frivolous use some Post-Modern designers made of classical motifs, and provides us with stimulating ideas by people who can write as well as design. Though there are plenty of the polysyllabic abstractions inherent in a scholarly work, the book is nonetheless suffused with a quality that can only be described as humane.

There is a stunning section on the more traditional forms of the new classicism, featuring the work of such architects as Allan Greenberg (his work shown), John Blatteau, and Quinlan Terry. In an essay, "The Architecture of Democracy," that accompanies some magnificent photos of his work, Allan Greenberg sets forth some of the reasons he has adopted classicism as a basic tenet of his practice. He states in part: "Psychological comfort in architecture is achieved through aesthetic satisfaction, easy orientation within the building, and a logical relationship between rooms, corridors, and all parts of the programme. . . . The concept of psychological comfort also encompasses our need to embody in architecture significant social experiences, political ideals, and religious beliefs."

And if you're one of the majority who believes classical architecture can always be recognized by columns and capitals, there is an illuminating section on abstract classicism — proving classicism is not so much a style as a way of thinking about our world.

In what is probably the most important part of the book, there are illustrations and discussions of the importance of classicism for urban environments. As Demetri Porphyrios declares in his essay, *Cities Of Stone*: "Nobody is born a traditionalist; he/she becomes one only after realizing that the traditional city is still today the most pleasing *Cita Felice*."

In the opinion of this reviewer, *New Classicism* is the most important book on architecture in the last 10 years. Anyone who dreams that the 1990's will see the built environment infused with a greater spirit of humanism hopes that this volume finds its way into the hands of every architect, city planner, builder, and developer in the country! ♦ — CL



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Edited by: John Belle, RIBA
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The best and most representative traditional details from the first four editions of Architectural Graphic Standards have been collected to form this unique graphic reference. From slate roofs with hipped dormers to the connections in standard mill construction, this hands-on, practical volume presents a wealth of useful and rare information. Organized in the traditional Ramsey/Sleeper "foundation to furniture" format, the arrangement of pages parallels the drawing preparation sequence of a rehabilitation project. Created to aid architects, designers, and preservationists in rehabilitation and historic preservation work, *Traditional Details* contains hand-drawn details from the 30's and 40's and an extensive bibliography on building rehabilitation and historic preservation.

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WRITE IN NO. 688

Profile: WILBERT HASBROUCK
continued from page 4



Burnham & Root designed the Rookery in 1888, Wright reworked its interior in 1904, and Hasbrouck restored it in 1990. Photo: Hedrich Blessing

shingle, and his first commission, fortunately, was a very visible one.

The c.1836 Widow Clarke house, Chicago's oldest dwelling, survived the 1871 fire because it had been moved to the south side of town. Hasbrouck was hired to move it back north, to serve as a museum near H. H. Richardson's Glessner house (a building whose preservation he had orchestrated while with AIA). To reach its destination, the timber-frame Clarke home had to be hoisted over the El tracks. "It took weeks to get it up, hours to get it across, and weeks to get it back down," he says.

"It was a real media event." And better than any press release, it validated his firm's existence.

"When we opened," he says, "we thought we'd have to take on a great deal of new construction to keep the door open, but from day one we've had enough restoration work to keep everybody busy." (Most of the 10% of his practice that is new construction involves creating buildings that suit historic contexts.)

The Delaware Building gave him his next opportunity to make a splash. Begun two months after the fire, its eight simply ornamented



Hasbrouck met partner James Peterson when the two collaborated in 1981 on revamping the Grand Traverse County Courthouse in Traverse City, Michigan. Photo: Jack H. Murchie

stories set precedents for its neighbors in the Loop. "Everybody thought it was cast-iron, but we got lucky and discovered it was cast concrete, which was easier to repair," says Hasbrouck. "It's the only

Chicago building that ever became a landmark *after* it was restored, and one of the few in the Loop that Sullivan and Wright would recognize."

Enter James Peterson, an architect who concentrates on the tech-



Hasbrouck converted Chicago's prominent — and unused — Dearborn Station into a retail/office complex.



Sears' towering headquarters echoes Dearborn Station. Photo: Ron Gordon

nical rather than historical aspects of restoration. He asked Hasbrouck to collaborate on the Grand Traverse County Courthouse in Traverse City, Michigan. The county was ready to tear down its Romanesque 1899 courthouse in search of more room, until Hasbrouck and Peterson

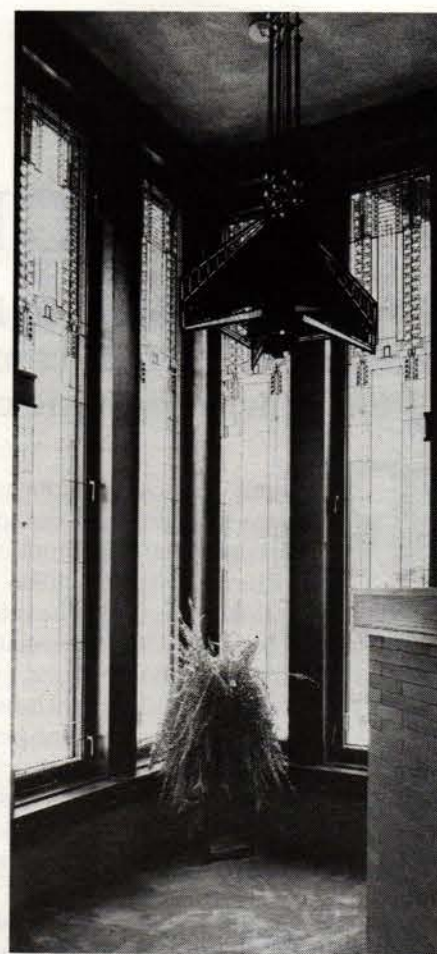
demonstrated how inexpensively the facade could be rejuvenated and how easily spaces could be reorganized. One of the partners' better received ideas, for example, was to convert the previously ignored attic into offices. Project cost per sq.ft. was \$49, while new construction then would have

cost \$70. And the two men have worked together ever since. (On January 1, they added to their list of partners, Henry Zimoch, an expert draftsman and longtime friend, and Jay Sirirattumrong, a former senior designer at the firm.)

"We don't divide duties very



The delicately embossed plaster frieze on Wright's Dana-Thomas House had collapsed; Hasbrouck rebuilt it. Photo: Doug Carr



Entry alcove to the Dana-Thomas House's gallery, with restored stained glass and light fixture. Photo: Doug Carr



The Dana-Thomas House retained much of its original furnishings; shown is the dining room. Photo: Doug Carr

strictly," says Hasbrouck, "but frankly I'm not a detail man. I like research and marketing, convincing an owner to restore a building. Jim leans towards defining and executing the work, and the new partners each have their own strengths. So we all get along great."

The Rookery and Dana-Thomas House have occupied much of the firm's time for the past few years. Burnham & Root designed an ornament-encrusted two-story lobby for the Rookery that Wright moderated. He replaced newel-post-capping electroliers with low-slung stone urns and covered the interior web of iron supporting columns with white marble sheaths incised with gold-leaf arabesques. Hasbrouck chose to restore the space to its 1910 appearance, when the building was fully occupied and heading into a commercial heyday; the project (with day-to-day administration by McClier Corp.) cost \$50 million.

The Dana-Thomas House, although its overhaul cost only \$3.5 million, was no less challenging. "It had suffered a total lack of maintenance and some misguided updates," says Hasbrouck. "The subtle wall colors had all been painted beige, and the woodwork's shellac had darkened to bluish-black." He restored the walls to sixteen shades of green, red, gold, and brown, using the same "scumbling" technique Wright used in 1904. He recreated the woodwork's finish by staining it brown with red highlights, exactly as Wright did.

"The Wright experts disagree with me over the red residue, but I'm certain of it, based on chemical analysis and the fact that Mrs. Dana loved sumac," Hasbrouck says. "The form and color of sumac are in the stained glass, and the woodwork now is exactly the color sumac turns in the fall. I have no proof Mrs. Dana ever said, 'Frank, I love that color,' but I know that the Danas were two of his wealthiest clients, I know that money talks — and I know Wright." ♦

project report

DESIGNING IN A NEW TRADITION

Versaci Neumann & Partners have created a modern home that combines creature comforts of today with psychic comforts of yesterday.

Russell Versaci, managing principal of Versaci Neumann & Partners, sums up the firm's design philosophy in a single sentence: "We champion the simple notion that designing traditional homes is rich with creative possibilities." Versaci says he senses a renewed spirit in domestic architecture, which he refers to as "New Traditions." This trend is characterized by a growing appreciation of the distinctive patterns, textures, materials, and craftsmanship found in America's heritage of fine old houses.

An outstanding example of how the firm translates that vision into bricks and mortar is a large new residence, called "Pleasant Hill," which is patterned after 18th-century Georgian houses originally built in New England. The client, a family of four, expressed a strong desire to live in a New England style colonial home. The program dictated 12,500 sq. ft. of living area, which could have resulted in a house so large and grand that it would overwhelm the scale of the original colonial prototypes.

The firm's solution to the problem of scale was to break the design into a composition of many additive parts — making it look as if the house had grown over many years. The central classic Georgian house appears to be the "original" building, which "grew" by attaching one-and-a-half story wings to each side. In turn, the wings were added onto with a gable-end block on one side and an open porch on the other. Each new section provides a variety of window patterns, roof forms, and construction details — presenting a rich array of architectural features.

While this five-part composition is original and unique to Pleasant Hill, the development of its architectural details relies heavily on historical source materials, in particular the *The White Pine Series of Architectural Monographs on Early American Architecture*. Many of the design motifs at Pleasant Hill are creative adaptations of neoclassical forms, manipulated into new, yet recognizable, forms — just as was done in the 18th century. As with all good classical

■ PROJECT REPORT ■

PROJECT SCOPE: Design and build a modern residence with 12,500 sq. ft. of living area that satisfies client's desire for a traditional New England Colonial home. The design must also incorporate an attached carriage house garage and pool house.

LOCATION: Suburban lot of 6.8 acres of rolling ground in Potomac, Maryland

ARCHITECT: Versaci Neumann & Partners, Washington, D.C.; A. Russell Versaci, *Partner-in-Charge and Designer*; Mark S. Buchanan, *Project Architect*

LANDSCAPE ARCHITECT: Trace Associates, Washington, D.C.

GENERAL CONTRACTOR: O'Neill Development Co.

revival architecture, this design uses the vocabulary of the classical language as source material for new translations suited to today's requirements.

The elongated composition of Pleasant Hill also owes a debt to American domestic architects of the 1920's, who reinterpreted Early American styles for town and country houses. Architects of that time, among them Charles F. McKim, Dwight James Baum, and Aymar Embury II, developed design solutions that adapted traditional Colonial styles to large estates while maintaining simple domestic proportions.

For Pleasant Hill, large-scale architectural drawings were prepared for every detail in the elevations, including the custom windows, door surrounds, fanlight dormers, bay windows, cupolas, and lanterns. Full-size custom molding profiles were drafted for the cornices, casings, and other trimwork because stock moldings did not have the correct proportions and heft of the Colonial originals.

The house was constructed with meticulous attention to detail by general contractor Brendan O'Neill, who has made extensive studies of New England and Williamsburg period houses. Master carpenter Raymond (Sonny) Wolfe, Jr., saw to it that every detail was crafted as intended in the drawings. Moldings were milled from clear white pine by Barrons Lumber, who also furnished the western red cedar clapboard siding. The true divided lite windows were fabricated by Kolbe & Kolbe. McCormick Paint Co. furnished the range of historical paint colors used throughout. The Glen-Gery bricks for foundation and paving were laid by masons of A. E. Paoletti Co. Interior casework, fireplace mantels, and wall paneling were fabricated by The Fireplace Mantel Shop. All wood flooring throughout the house is resawn southern yellow pine from Vintage Lumber Co. ♦ — CL



Resembling an 18th-century Georgian that grew in stages, Pleasant Hill encompasses 12,500 sq. ft. of living space within a single delicately proportioned composition.



The five-bay central block of the house is centered on a pedimented Doric doorway surmounted by a Palladian window that proclaims the main entrance. The three-car garage was designed as a separate carriage house structure with a projecting eave supported on five stout columns.



A composition of porches, overhanging roofs of differing materials, walkways with a variety of pavings and level changes add character to the connection between the kitchen wing and carriage house.



The kitchen wing (inset left) is located in a hyphen flanked by a secondary porch. Varied windows in the "additions" add to the richness of architectural detail throughout.

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696. Salvaged Roof Tile — A computerized listing and selling service that provides all brands and shapes of the world's finest previously used clay roof tiles. Quantities for small repairs or large projects. Free brochure. **TileSearch**

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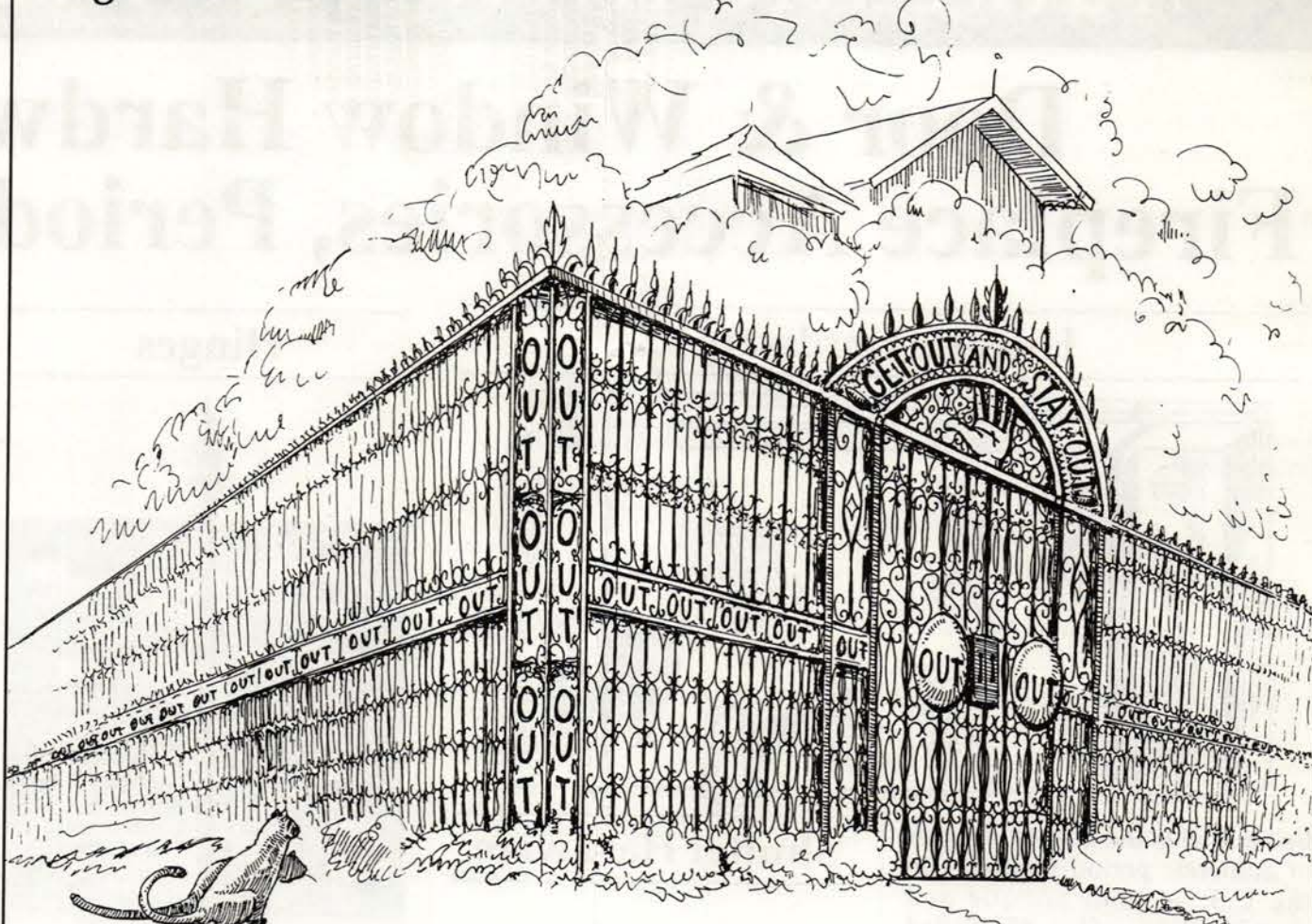
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703. Hand-Carved Doors — Solid hardwood doors with deep hand carving in 28 styles. Exterior and interior; mahogany, rosewood, teak, and red oak. Custom work available. Free brochure. **Elegant Entries**

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591. Colonial Hardware — Colonial hardware, including latches, hinges, drawer pulls, racks, and hooks; interior and exterior. Black pyramid head screws, flat-head wood screws, fireplace cranes. Free brochure. **Old Smithy Shop**

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611. Antique Lighting — Wholesalers of antique lighting, glass, and brass parts. Free brochure. **Yankee Barn**

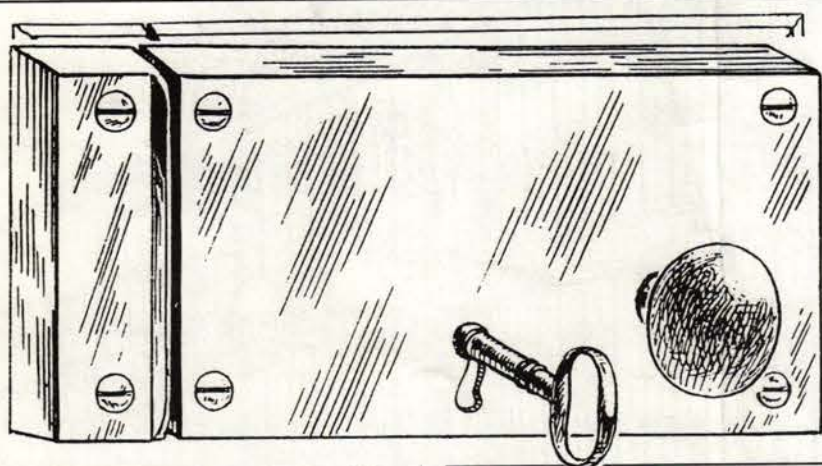
■ Division 17 — BOOKS

688. Traditional Details — Republication of the plates from early editions of *Architectural Graphic Standards* provides today's restoration architects with a wealth of design details. **John Wiley & Sons** ♦

Authentic Historical Hardware

Door & Window Hardware, Fireplace Accessories, Period Lighting

Historic Hardware



Ball & Ball is the largest supplier of authentic period hardware in the U.S. — both antique and reproduction. Our 45 skilled workers draw upon knowledge accumulated through 3 generations of management by the Ball family. And our study collection of antique hardware provides Ball & Ball with more in-depth knowledge of historic hardware than any other supplier.

For example, our X90 box locks (shown) combine modern convenience with charm. Faithful to the historic originals, this lock has a brass box covering an iron plate on which the operating mechanism is mounted. Because of our attention to historical detail, these locks may be used in the most important restorations as well as in the well-appointed home.

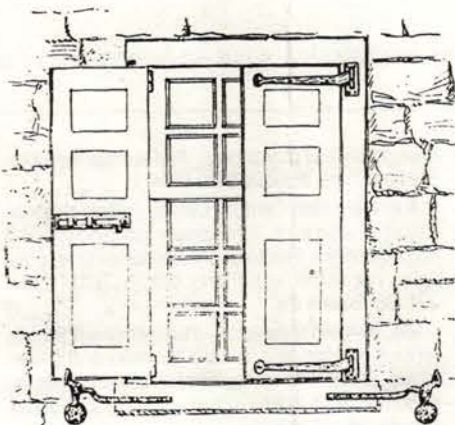
Many other types of authentic historic box locks are shown in our 108-page catalog — along with a wealth of other hardware for architectural and furniture applications.

Lighting Fixtures



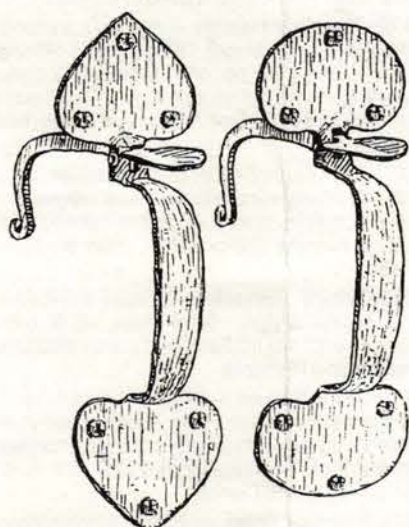
Ball & Ball offers the finest selection of reproduction Early American lighting fixtures. All brass is solid — not plated — and glass used is hand-blown lead crystal. Pure copper, tin and iron are used for fixtures that require these metals. Shown: The Independence Hall chandelier, identical to fixtures supplied by Ball & Ball for the restoration of Independence Hall in Philadelphia.

Shutter Hardware



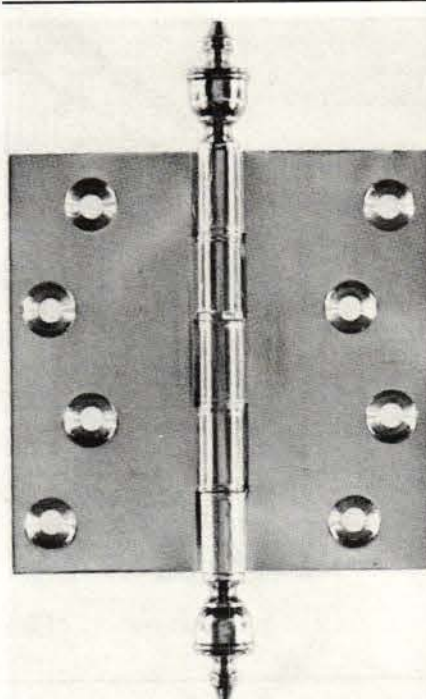
Strap hinges, locks, and shutter hold-backs are available as stock or special-order items. HAND-FORGED shutter hinges with lag screw or drive pintles available on special order. Also: Inside shutter hardware in brass and cast iron.

Latches



We have a varied stock of authentic reproduction thumb latches, ranging from Colonial times up to 1850. Many special thumb latch shapes can also be made at the STOCK PRICE. Left: 10-1/2" hand-forged spade-end latch. Right: 9-3/4" semi-hand made bean-end latch.

Hinges



We carry a wide selection of iron and brass hinges from the Early American and Victorian periods. Shown: the H1877 4x4 brass steeple-tip door hinge with bronze load-bearing bushings, typical of the style used in the late 1880's.

Used In The Finest Restorations

Ball & Ball hardware has been specified for the finest restorations in North America including: Independence Hall, Philadelphia; The Shirley Eustis House, Boston; Iolani Palace, Hawaii; New York State Capitol, Albany; Klondike Gold Rush Park, Alaska; The Old Synagogue, Barbados.

Window Hardware



Sash and casement window fittings are available for the Early American and Victorian periods: Hand-forged and cast; iron, brass, and bronze. Above: V150-226 Victorian cast-iron sash lock with porcelain knob. Below: V160-290 brass flush-mounting sash lift.



Catalogs In 2 Sizes

Our MINI-CATALOG provides an introduction to the range of products and services furnished by Ball & Ball and is available FREE. (You can write in no. 293 on the Reader Service Form.) Or for \$5 we'll send you — via U.P.S. — our handsome, lavishly illustrated 108-page product catalog. Our catalog incorporates useful information about antique hardware that will help you appreciate the subtle differences in the manufacture of reproductions. But even the 108-page catalog doesn't show all 2,000 of our hardware products. If you're looking for something rare or unusual, call or FAX us.

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