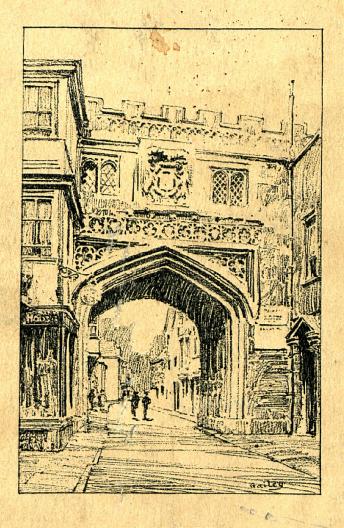
TYSON T. FERREE ARCHITECT 220 PROFESSIONAL BUILDING HIGH POINT, N. C.

Southern Architectural and Industrial Arts Exposition Announced In This Issue

# SOUTHERN ARCHITECT and BUILDING NEWS

"Since 1882"



TO SULT THE SULT OF SU

APRIL 1929

THE SOUTH'S ONLY JOURNAL OF ARCHITECTURE AND BUILDING



#### No Soot—No Smoke—No Ashes No Attention Required

Orders and re-orders prove the public like this effortless service. Installed in any home, the SEPCO delivers hot water at every faucet, day or night! Economical, effortless--clean and healthful hot water. So good that the power company sells your clients electric service to be used with the SEPCO at a price lower than they pay for "electric lights."

Over 35,000 Sepco Heaters now successfully operating makes it possible for architects to specify this product with perfect safety.

#### AUTOMATIC ELECTRIC HEATER COMPANY

1706 Race Street
PHILADELPHIA, PA.

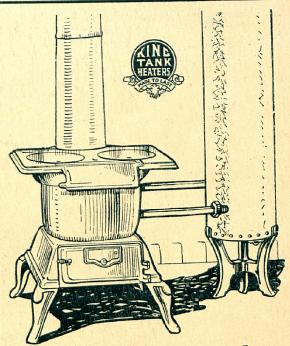


THE old-world charm and faithful adherence to the traditions of the past characteristic of our mantels, have commended them to a very large number of the most distinguished architects of America. We work for craftsmanship and correctness of design and execution—not for quantity production—and the results are of proportionate excellence.

Our illustrated folder showing many designs is at your service. May we send it?

#### PERIOD MANTELS





# Specify this King Tank Heater for economical hot water supply

A small, sturdily constructed stove with hot water heating chamber built about the fire bowl, the King Tank Heater allows the water to absorb practically every bit of heat energy developed. That's why it does a capacity job on only one bucket of coal a day. You should have full information in your files. Order from your jobber or write us today.

OAKLAND FOUNDRY CO.

DEPT. A.

BELLEVILLE, ILL.

## KING TANK HEATER

#### 1

# COVERT

Fireplace Construction



FIREPLACE IN THE HOUSE OF HUGNES LALLEMENT AT CHALONS-SUR-MARNE, FRANCE. MIDDLE OF XVI CENTURY

THE success of a fireplace is not all architectural. The method of construction is of vital importance. The illustration is the second of a series of interesting European fireplaces.

# COVERT FIREPLACE DAMPERS

Write for booklet written for the Architect, giving complete data on Covert System of Fireplace Construction.

The H.W. COVERT COMPANY, 243 E. 44th St. N.Y.

# A charming GARDEN HOUSE

# will lend character and completeness to the surroundings of many homes

The possibilities for architectural adornment in extensive private gardens and public grounds, as well as in beautifying the yards and gardens of more modest homes, very often suggest the use of a pergola or garden house.

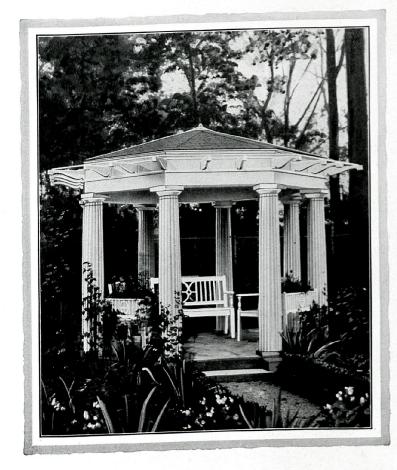
Hartmann - Sanders pergolas, garden houses and other outdoor features are a reflection of the modern quest for beauty and lend an unmistakable note of distinction to home surroundings. They are significant of life's finer and more beautiful phases.

THESE TWO BOOKLETS OF COLUMNS, COLONIAL ENTRANCES AND GARDEN EQUIPMENT GLADLY SENT.



Hartmann-Sanders has published two large, profusely illustrated booklets. which offer countless suggestions concerning the architectural adornment of home surroundings. One shows page after page of beautiful pergolas, garden houses, ornamental fences, garden entrances, seats, rose arbors, trellises, columns and garden accessories of all kinds. The other booklet shows all types and styles of famous Koll Lock-Joint Columns. Write for the booklet. No charge. Hartmann-Sanders Co., Factory and Showroom: 2153 Elston Ave., Chicago. Eastern Office and Showroom: Dept. S. 6 East 39th Street, New York City.





# HARTMANN-SANDERS

PERGOLAS

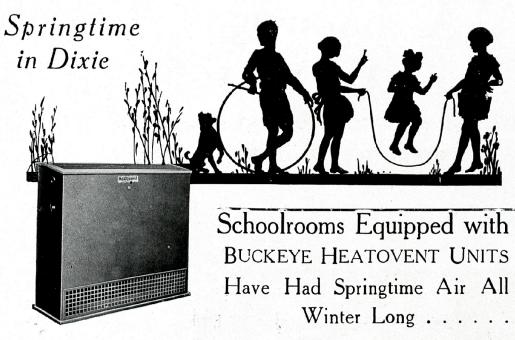
ROSE ARBORS

COLONIAL ENTRANCES

GARDEN EQUIPMENT

KOLL COLUMNS





and will be as airy as an April day during the warm sultry days to come.

Buckeye Heatovent Units take fresh out of doors air, filter it, warm it, if necessary, and thoroughly diffuse it without draft, throughout each room.

The quietly efficient Buckeye Multiblade Fans blow the fresh air through the radiator, or it no warming is necessary, through the by-pass, with sufficient outlet velocity to thoroughly circulate the air in the room.

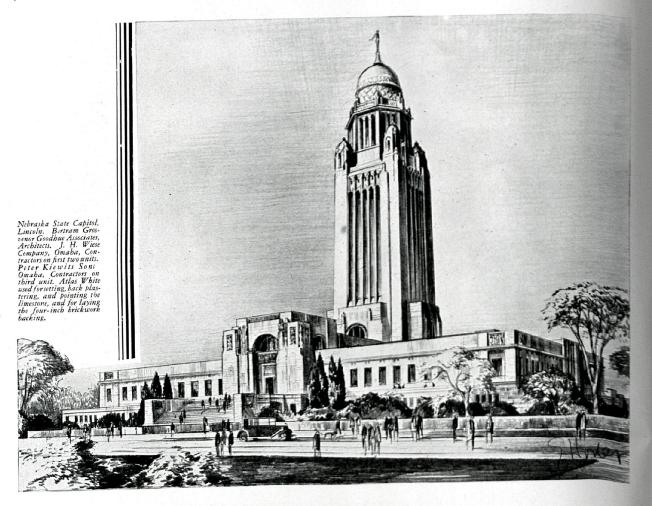
Open window ventilation is a poor substitute for this dependable unit ventilation which supplies a predetermined volume of fresh air at the necessary velocity and in the required direction to thoroughly ventilate each room irrespective of the lack or the force or direction of out of doors air currents.



Write for Illustrated Bulletins Nos. 123 and 124



Sales and Service Offices-



## A non-staining mortar of harmonizing color for all fine masonry

The stately grandeur of the Nebraska State Capitol rises stone on stone, each one in a setting or harmonizing color.

The mortar that achieved the architects' color theme, will also perpetuate its beauty, for it is made of Atlas White Portland Cement. Non-staining, it will never discolor the Indiana limestone which it encases.

For soaring tower or residence mantelpiece, in laying brick or stone or tile, Atlas White brings the same advantages. Mixed with white sand or

marble chips, it provides a pure white joint that is non-staining—also prevents efflorescence—a prime essential in laying all fine structural or ornamental masonry.

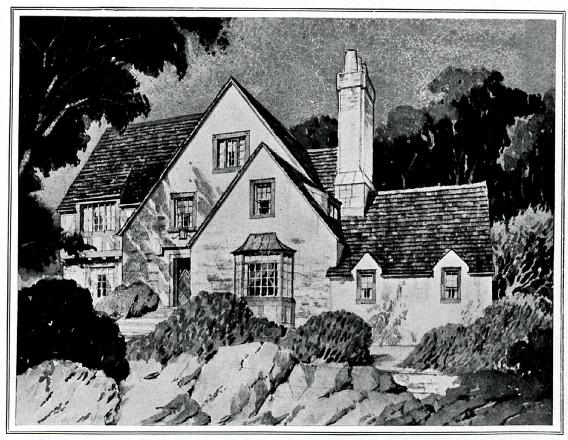
More, the strength of Atlas White is as permanent as its beauty. It fully meets all the requirements of standard specifications for Portland cement.

You can purchase Atlas White or Atlas Gray Portland Cement in any quantity from your own building material dealer. He is the only distributing agency between the Atlas plants and your concrete job. The flexible service which he offers on Atlas and the direct delivery of cement to the user, bring Atlas to you at less expense than by any other method. And because he performs this essential, economic service, the dealer makes a vital contribution to the upbuilding of the community.

# ATLAS PORTLAND CEMENT GRAY CEMENT WHITE The Standard by which other makes are measured

THE ATLAS PORTLAND CEMENT COMPANY, MAIN OFFICES: NEW YORK, ST. LOUIS

BOSTON - ALBANY - PHILADELPHIA - CHICAGO - DES MOINES
OMAHA - KANSAS CITY - OKLAHOMA CITY - WACO BIRMINGHAM



Residence at Scarsdale, New York. Edgar & Verna Cook Salomonsky, Architects

## The Well-Informed Architect's Choice

When planning a home of English, French, Spanish or Italian architecture, the well-informed architect usually specifies a roof of IMPERIAL Roofing Tiles.

For his years of study and extensive travels abroad have taught him that tiles are the appropriate roof for homes of European origin.

But this is not his only reason for specifying IMPERIAL Roofing Tiles. He also knows that no other roof is as lasting, as fadeless, and as

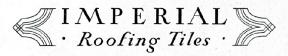


Close-up of IMPERIAL Brittany Shingle Tiles as used on the residence above. Note how closely they resemble Europe's century-weathered tiles.

resistant to fire and the elements.

There are IMPERIAL Roofing Tiles to harmonize with every type of architecture and with every color scheme. Rough in texture and mellow in tone, they actually cannot be distinguished from the time-worn tiles of the Old World.

As the less expensive ones cost no more than a commonplace, non-fire-proof roof which must periodically be replaced, it is possible to employ them on the most modest residences.



LUDOWICI CELADON · COMPANY
NEW YORK 565 FIFTH AVE · CHICAGO 104 S.MICHIGAN AVE · WASHINGTON 738 FIFTEENTH ST.N.W.

For information concerning IMPERIAL Roofing Tiles, address 104 South Michigan Avenue, Chicago, Illinois



#### UNIVERSITY OF CHICAGO CHAPEL

SEATING AND WOOD CARVINGS BY AMERICAN SEATING COMPANY

Ilustrated above—Seating, Choir Stalls and Organ Woodwork including detail of Traceried Screen for Organ Pipes

Bertram Grosvenor Goodhue and Bertram Grosvenor Goodhue Associates, Architects

# American Seating Company 1083 Lytton Bldg. Chicago, Illinois







The ABINGDON Self-Ventilating Closet solves a problem that would still be a serious domestic drawback if we had not introduced this unit.

Thousands of housewives are embarrassed daily by the well-known bathroom nuisance. But ABINGDON Self-Ventilating Closets change all that. No disagreeable odors can linger.

One of the most popular features in modern residential specifications. Architects are invited to write for complete details regarding this and other units in the ABINGDON line.

ABINGDON SANITARY MANUFACTURING CO.

Potteries at Abingdon, Illinois

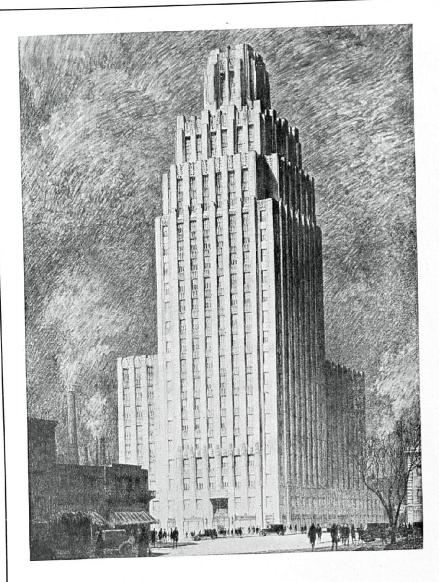
Manufacturers of Highest Quality Vitreous China Plumbing Fixtures



ABINGDON is a mark of plumbing quality. One of the most beautiful units in the line is this "Delcrest" lavatory.

# ABINGDON

SELF-VENTILATING WATER CLOSET



TOBACCO COMPANY BUILDING, WINSTON SALEM, NORTH CAROLINA

Fords Sanitary Urinal Stalls were recently chosen for the South's newest office structure, the R. J. Reynolds Tobacco Company Building.

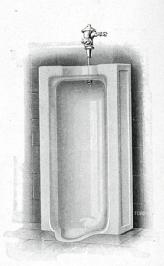
The fact that Furds Stalls were selected from many makes in a highly competitive market proves that Fords has produced a product that is high in quality in every respect.

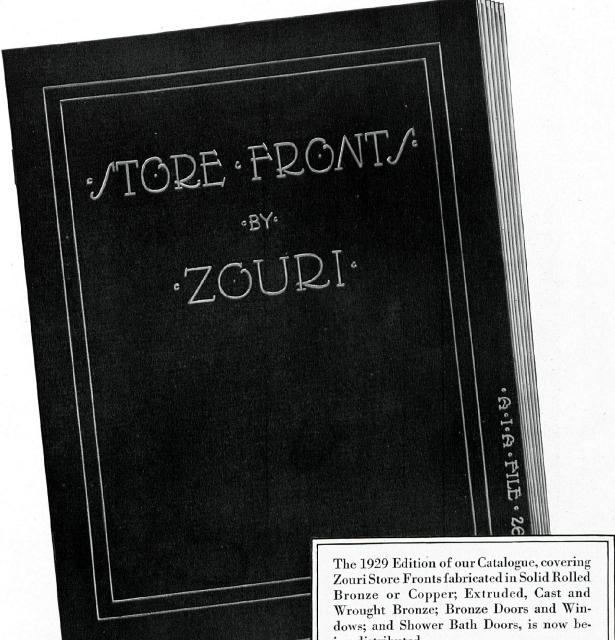
You will find that your customers, too, will be well satisfied when you specify Hords Porcelain Urinal Stalls in your next building.

# Fords Porcelain Works

PERTH AMBOY, NEW JERSEY

LARGEST MANUFACTURERS OF PORCELAIN ALL-CLAY PLUMBING FIXTURES IN THE WORLD





ing distributed.

If your copy has not been received, please write for one. There is no obligation.

# Zouri Drawn Metals Compan

Chicago Heights, Illinois

ASSOCIATED COMPANIES:

INTERNATIONAL

ZOURI DRAWN METALS COMPANY INTERNATIONAL STORE FRONT COMPANY STANDARD STORE FRONT CONSTRUCTION CO. MODERN BRONZE STORE FRONT CO. ZOURI COMPANY OF CALIFORNIA ZOURI DRAWN METALS CO., OF NEW YORK, INC.

DISTRIBUTION







#### Distinction

From the Metropolitan Museum of Arts, New York City, comes this very fine example of early 18th Century woodwork. This detail was taken from a room in "Marmion," King George County, Virginia. This house stood on the estate first owned by that William Fitzhugh from whose letters has been gleaned so much information of the early economical and social life of Virginia. Elegance and distinction in home life was traditional with the Fitzhugh's.

# In The Traditional Eighteenth Century Manner

THE charm and interest so apparent in this woodwork detail from "Marmion." King George County, Virginia, suggest the studied care which makes our Early Eighteenth Century American homes a source of inspiration for our contemporary architects who are seeking for their guidance the best in traditional design. Enduring beauty of line—rich in architectural character makes the quality of this early work worthy of perpetuation in our modern homes.

THE same good taste which dictated the erection of these elegant interiors of the Early Republic is everywhere apparent in the South today—architects and clients are meeting on a happy ground of understanding. The matter of execution of such delicate woodwork details is a serious problem that should be given more than usual consideration by the architect. The very finest craftsmen thoroughly imbued with the spirit of commercial perfection are at your service in the plants of the millwork manufacturers listed here.

There is no millwork commission too small nor a job too large for these manufacturers to handle promptly and with a collaboration that will make your problem easier.

Enochs Lumber & Mfg. Co., Jackson, Miss. Steves Sash & Door Co., San Antonio, Texas



63/4" oak floor block

This unit oak floor block, \*CELLized, now provides a design oak floor at reasonable cost for every home. Unexcelled for offices, hotels, ball-rooms, clubs, display rooms, public buildings, hundreds of uses for which a design oak floor has hitherto been too expensive.

> Style, permanence, lowest upkeep cost-combined in a floor of unique beauty. Each block is a complete unit of three or more oak flooring strips, full 18 thickness, splined together. Laid quickly and easily in EVERBOND, a plastic cement without nails, directly over concrete or wood

subfloor. The floor is comfortable and sound-deadening, as EVER-BOND is a non-vibrating medium. Each block is \*CELLized (treated) to reduce the tendency toward change in size. Protects against insect attacks and decay. The cost is but little more than regular strip flooring, and less than many perishable floor coverings.



See our catalog in Sweet's: 23rd edition.

Architects may now specify a floor, whose application is handled by trained specialists, and guaranteed by us, when laid by approved \*CELLized flooring contractors.



Laying \*CELLized oak floor blocks in EVERBOND overa wood subfloor, in a Chicago office building.

Ball room of the Dallas Athletic Club, Dallas, Texas.

\*CELLized oak floor blocks are guaranteed by \*CELLized Three sizes—634",9° and 1114" blocks: all grades. May be laid in regular or half center square pattern, or diagonally, withwing blocks for border. Oak Flooring Inc., when

Display room of John T. Fisher Motor Company, Memphis, Tennessee

laid by approved and licensed flooring contractors. The names of those licensed to use this label in your locality will be supplied upon request.



\*CELLized planks and strip flooring are obtainable through licensees of \*CELLized Oak Flooring Inc.

\*CELLized oak floor blocks are sold through lumber dealers everywhere; manufactured by TENNESSEE OAK FLOORING CO., Nashville, Tenn. E. L. BRUCE COMPANY . . . . Memphis, Tenn. NASHVILLE HDW. FLOORING CO. Nashville, Tenn. BRADLEY LUMBER CO. of Arkansas, Warren Ark.

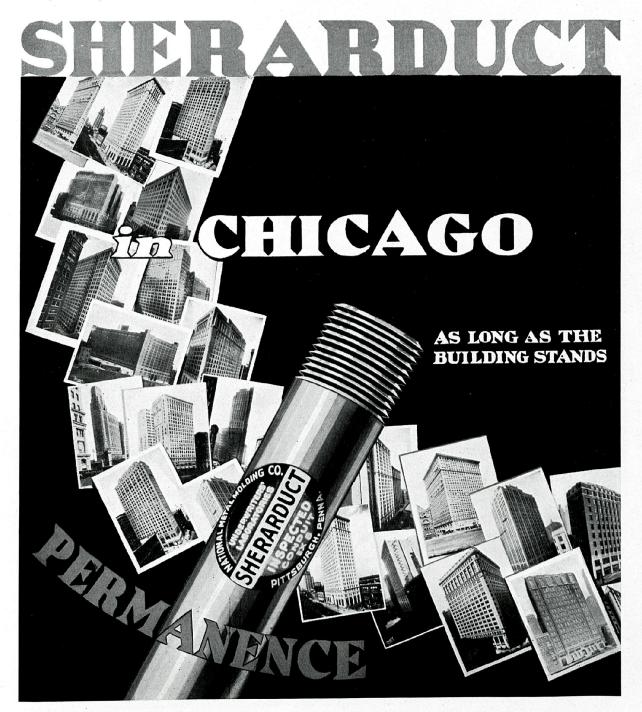
THE LONG-BELL LUMBER CO., Kansas City, Mo. ARKANSAS OAK FLOORING CO., Pine Bluff, Ark.

## Modern Building Demands INDIANA LIMESTONE

In the constant struggle for improvement in the construction field, it is significant that Indiana Limestone, in favor decades ago, has more than held its own. It is an integral part of today's building program, increasing in use as more buildings are erected... Whether you want it for an entire building or for the finest trim obtainable, this company can promptly meet your Indiana Limestone needs.



**BLOOMINGTON~INDIANA** 







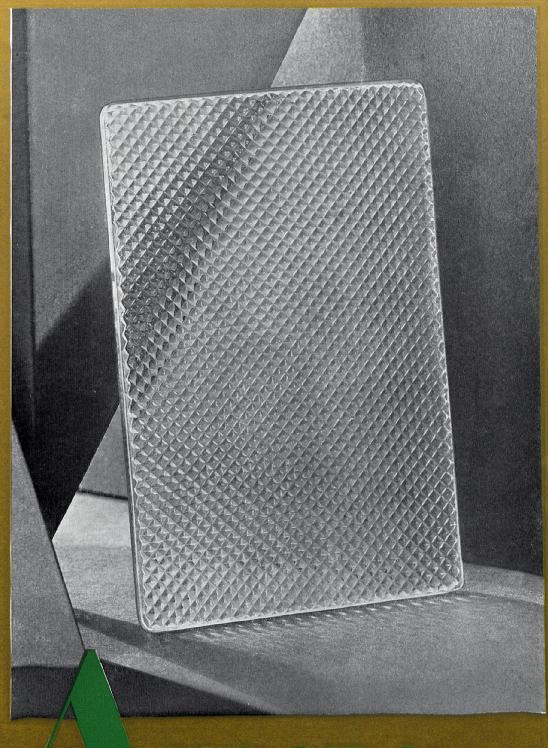
National Electric Products Corporation
National Metal Molding Division
Pittsburgh, Pa.

# There is plenty of No. 1 Buff. We have ample supplies of this uniform creamy white Indiana Limestone, termed Buff-the market's highest grade for 72 years—a stone that likes flood lighting -whose tone is uniform and light-a stone that emphasizes the vertical lines characteristic of modern design—that is instinct with life, warmth and attractiveness-and we have two billion feet-all grades!

VICTOR

OOLITIC STONE CO.

Bloomington Indiana



A MISSISSIPPI GLASS (See next page)

# BEAUTY and EFFICIENCY

make this glass ideal for partitions

AURORA is a quality glass with a simple prismatic design scientifically cut to provide an efficient distribution of light. The simplicity and brilliancy of its design make Aurora an ideal glass for doors and partitions in modern office buildings. Its appearance spells good taste and its design makes for effective illumination. Aurora, plain or polished, may be obtained from your glass distributor.

## AURORA

is one of the many patterns of figured glass (polished or plain) illustrated and described in the new catalog that has been issued by the Mississippi Glass Company. This catalog contains much information which will be found useful when choosing the proper style of glass to obtain a desired effect. A copy will be mailed upon request to those interested in making a more efficient use of glass.

Mississippi Glass Company 220 fifth ave., New York

CHICAGO . ST. LOUIS

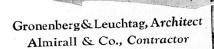
# The AIMIES PUINIP

Heart of the Heating System Greeley Square Building New York City

Has a Performance Record of Three Years Service—Dependable—And Not a Cent for Repairs.

AMES PUMP COMPANY

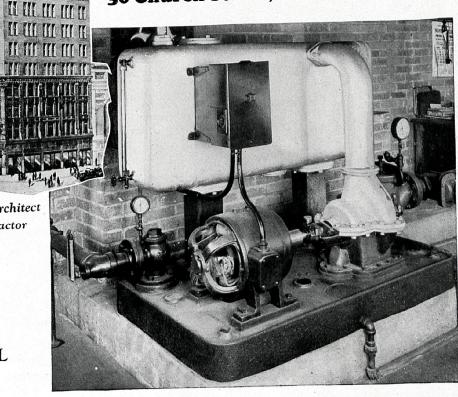
30 Church Street, New York, N.Y.

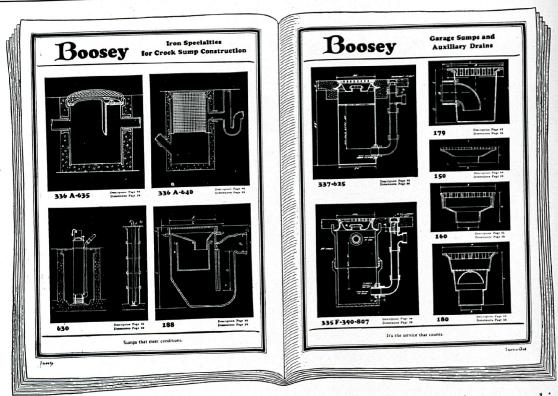


THE NAME OF STATE STATE OF STA

THE REE THE STREET

SALES
OFFICES
IN
PRINCIPAL
CITIES





Seventy pages of drainage information for specification writers, draughtsmen, architects' superintendents and plumbers' foremen. This catalog gives detail, description and measurements of:

#### Cleanouts

Factory Flush Heavy duty

Road Tile floor

#### Closet Connectons

Brass flanges Cast iron flanges Cast iron extensions Special tee connections

#### Seepage

#### Sump Pumps

Varying in length from 4 to 20 feet

#### Covers

Cleanout
Factory manhole
Garage sump
Gas tight
Meter pit
Road manhole
Valve pit

#### Drainage Valves

Automatic
Back pressure
Combination
Drainage
Gate

#### Seepage Drains

Back pressure Floor Fountain Invisible yard Road Roof Sediment Shower Swimming pool

#### Sump Drains

Urinal

Garage Laundry Sand Tile drain

For this catalog address

# NORMAN BOOSEY MFG. CO.

5140 Hamilton Avenue

Detroit, Michigan

Chicago Office: D-23 Builders Exposition Bldg., 228 N. LaSalle St.



# PEELLE Freight DOORS

"The doorway of America's freight elevator traffic"



An (FA) Estimate establishes a cost standard on the job. To buy for less you must sacrifice quality



One of the reasons for the general acceptance of @ leadership in panelboards is the unvarying quality and right-pricefirst estimates which everyone obtains from @ at all times.

It is natural that this standardization would establish both the panel board cost



and quality on any job and that the words "or equal" does not find a satisfactory alternative used with . To buy panelboards for less than a quality price is to sacrifice quality.

- @ Panelboards are priced accurately on known costs, definitely established by a cost finding system of national renown Full value at the minimum amount is assured.
- @ Panelboards are all standardized, sectionally constructed, safety-type, that are built to eliminate the need of maintenance and to last as long as the building in which they are installed.

Send for the @ Catalog. Call in the nearest @ man for any co-operation or information you need. Estimates gladly supplied free.

# rank Adam

ELECTRIC COMPANY

ST. LOUIS

DISTRICT

Kansas City, Mo. Los Angeles, Calif. Memphis, Tenn. Minneapolis, Minn. New Orleans, La.

OFFICES

San Francisco, Calif. San Francisco, Seattle, Wash. Tampa, Fla. Tulsa, Okla. Montreal, Que.

Toronto, Ont. Vancouver, B. C. Walkerville, Ont. Winnipeg, Man.

Atlanta, Ga. Baltimore, Md. Boston, Mass. Buffalo, N.Y. Chicago, Ill.

Cincinnati, Ohio Dallas, Texas Denver, Colo. Detroit, Mich. Jacksonville, Fla. New York City Omaha, Neb. Philadelphia, Pa. Pittsburgh, Pa. Richmond, Va.

# The Brasscrafters

PUBLISHED BY J. P. EUSTIS MANUFACTURING COMPANY

CAMBRIDGE, MASS.



Copyright, 1929, by J. P. EUSTIS MFG. CO., 12c Ames Street

# This New SILVERING PROCESS is the first REAL Advance in Mirror Making since 1691. Intensified, Lasting Brilliance Now Guaranteed in the Brasscrafters "Evalast" French Plate Mirrors.

French Plate Glass was first introduced in 1691. It was then the art of mirror making received a new impetus, French mirrors soon excelling those of Venice.

However, no basic advance was made over the old silvering process. Some missing element in the formula left the delicate coating of silver non-resistant to the action of steam, moisture, and varying climatic conditions. This susceptibility to quick corrosion under adverse outside influences has always been the cause of mirrors becoming dull and streaky-subject to the annoyance and expense of frequent resilvering.

Yet in spite of persistent efforts to discover a satisfactory formula for bonding silver to glass, no fundamental progress in the process was made until the present year.

#### A 1929 IMPROVEMENT

In Brasscrafters "Evalast" French Plate Mirrors modern chemistry and engineering offer a 1929 creation. These mirrors, the result of an infinite amount of technical skill, treatment, and care, are distin-

guished by the following exclusive characteristics:

A newly perfected coating of silver, laboratoryformulated, and so sealed as to be impervious to corrosion from fumes, steam, moisture and water.

The practical advantages of this new protection result in a reflecting surface of intensified, lasting brilliance. This has been proven by chemical and physical tests. In addition to laboratory experiments



The beauty of this Flambeau Design, taken from the baths of Titus, is a joy forever in the Brasscrafters "Evalast" French Plate Mirror

Brasscrafters "Evalast" Mirrors have been subjected to rugged outside conditions. Mirror Plates have been buried in the moist earth, exposed to salt air, to live

steam and water, and to extremes of temperatures, without showing the slightest trace of corrosion or oxidation.

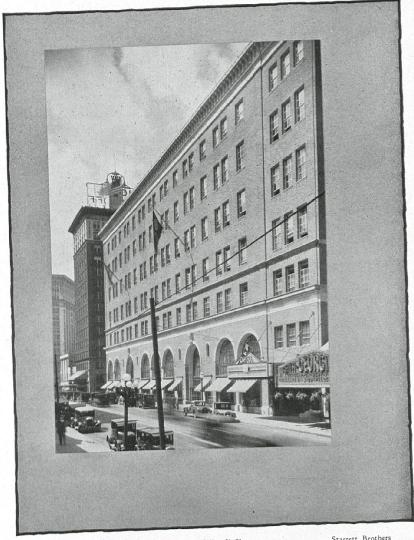
#### ARCHITECTS AND OWNERS INTERESTED

Since February of this year, when the Brass-crafters "Evalast" French Plate Mirrors were first announced in these pages, there has been a gratifying response from the profession and the public alike. Architects and owners, confronted with constant conditions of water and moisture such as in Bathrooms, Steamships, and Barber Shops, have been quick to see the advantages of a mirror quaranteed free from silver corrosion. Builders who must set mirrors in close proximity to freshly plastered walls, or water pipes; owners of water-front property, various beauty salons throughout the country have all evidenced their approval of the new Brasscrafters "Evalast" French Plate Mirrors.

While we are perfecting our arrangements for the national distribution of this remarkable new mirror, you are cordially invited to write us at headquarters for prices and additional information.

# The Brasscrafters

J. P. Eustis Manufacturing Co.
12-A AMES STREET CAMBRIDGE, MASS.



Starrett & Van Vleck

Hentz, Adler & Shutze Associate Architects

Starrett Brothers General Contractors

### RELIANCE FIRE-PROOF PRODUCTS

IN THE SOUTH'S FINEST DEPARTMENT STORE

THE new building for the Davison-Paxon Company, affiliated with R. H. Macy of New York, in Atlanta, is a striking illustration of the South's commercial development.

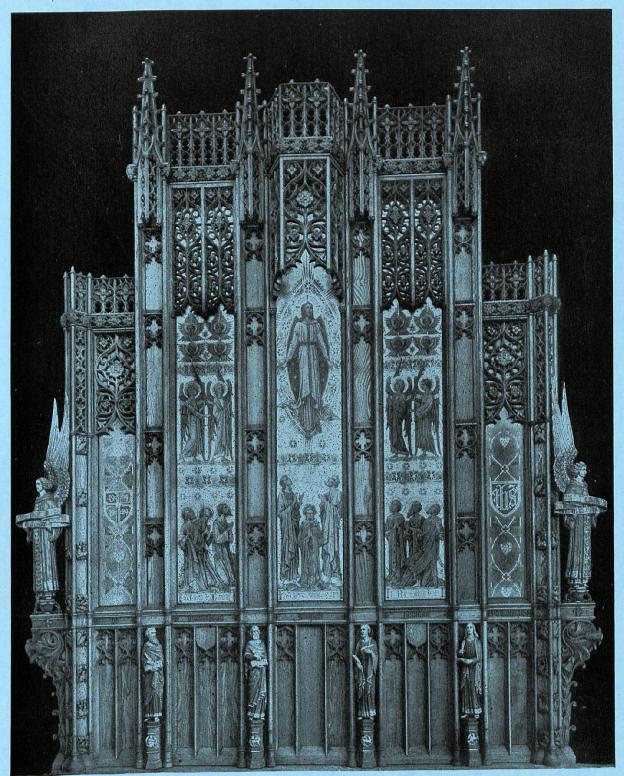
In keeping with the architectural beauty of the exterior facade Reliance Bronze Doors were used for all entrances and for absolute safety of the finest wares Reliance Fire-proof Doors were installed in this structure.

We are working in collaboration with architects and engineers throughout the South and will be pleased to work with you whenever fire-proof products are to be installed.

See Our Catalogue in Sweets 21st Edition, Pages A. 819-821

更是 RELIANCE FIREPROOF DOOR CO. 美 美 及 BROOKLYN, N. Y., 77-103 DOBBINS ST. LUKE SEAWELL, ATLANTA, GA., 144 SPRING ST., N.E.

Hollow Steel and Kalamein Doors - - Combination Steel Bucks ORNAMENTAL AND ARCHITECTURAL BRONZE Standard Equipment in the Finest Buldings



The Powers Memorial Reredos, ST. STEPHENS P. E. CHURCH, Westhampton, Va., Frank Watson, Thompson & Edkins, Archts.

Executed by DeLong Furniture Co., 1505 Race St., Philadelphia. (Catalog on request.)

## FURNITURE BY DE LONG

FOR CHURCHES~FRATERNAL AND PUBLIC BUILDINGS

"We have approximately 350,000 feet of hard maple flooring in the Straus Building. Our experience proves that Maple Flooring is decidedly the most practical flooring material for the modern office building, especially for office space. Maple wears better than other flooring; it never seems to lose its attractive smoothness; it reduces our maintenance costs—cuts the time and expense of under-floor alterations.

"We find, too, that most tenants prefer hardwood floors in their offices, which is simply another good reason why we feel our original choice of Maple Flooring was a wise one."—

R. H. BELL, JR., Manager, Straus Bldg., Chicago.



# "Our choice of Maple Flooring was a wise one," says R. H. Bell, Jr., Manager of Straus Bldg., Chicago

Like many other managers of well known office buildings throughout America, R. H. Bell, Jr. has discovered a unique combination of desirable features in Northern Hard Maple Flooring.

In its natural golden hue, or finished in one of the darker colors rendered by new fadeless penetrating stains, a Northern Hard Maple floor will appeal to the man who selects office space.

This unique hardwood flooring, moreover, never slivers or splinters. Harsh usage simply makes it smoother with time. It actually outwears stone! It is exceptionally easy to clean and keep clean. And it simplifies under-floor alterations in the building.

Let your floors help you rent your space. Northern Hard Maple will do that . . . and more. Its remarkable durability will help you reduce maintenance costs.

It will pay you to investigate the advantages of Northern Hard Maple.

Members of the Maple Flooring Manufacturers Association have contributed many thousands of dollars and years of work to standardize and improve the manufacture and grade uniformity of Northern Maple, Beech and Birch Flooring. The following manufacturers only are licensed to use the Association Trademark MFMA. Specify MFMA on the flooring you use.

Cobb & Mitchell, Inc. Cadillac, Mich.
Cummer-Diggins Company
Gadillac, Mich.
Flanner Company Blackwell, Wis.
Foster-Latimer Lumber Co.
Mellen, Wis.
Holt Hardwood Company
Oconto, Wis.
Iadiana Flooring Company
New York, N. Y.
(Mill at Reed City, Mitch.)
Mitchell Brothers Company
Cadillace, Mich.
Cadillace, Mich.

(Mill at Reed City, Mich.)
Mitchell Brothers Company
Cadillac, Mich.
Nichols & Cox Lumber Company
Grand Rapids, Mich.
North Branch Flooring Company
Chicago, Ill.

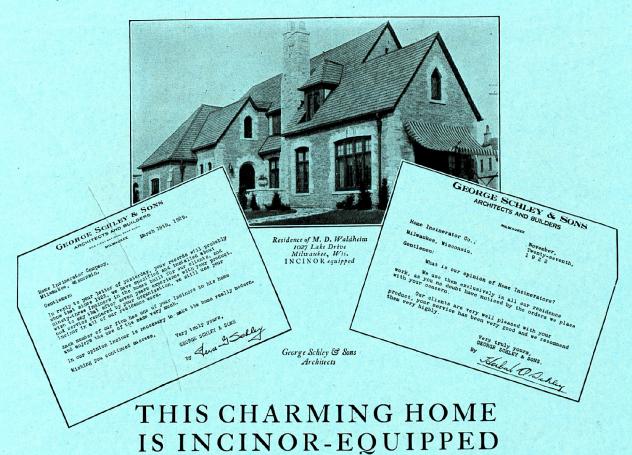
Northwestern Cooperage & Lumber
Company Gladstone, Mich.
Osgood & Blodgett Mig. Co.
St. Paul, Minn.
Oval Wood Dish Corporation
Company
Company
Sawyer Goodman Company
Glidden, Wis.
Soo Lumber Company
Glidden, Wis.
Stephenson, I. Co. Trustes
Big Rapids, Mich.
Ward Brothers Big Rapids, Mich.
Wells, J. W. Lumber Company
Menominee, Mich.

MAPLE FLOORING MANUFACTURERS ASSOCIATION, 1781 McCormick Building, Chicago

Let our Service and Research department assist you with your flooring problems . . . Write us.

The letters MFMA on Maple, Beech or Birch flooring signify that the flooring is standardized and guaranteed by the Maple Flooring Manufacturers Association, whose members must attain and maintain the highest standards of manufacture and adhere to manufacturing and grading rules which economically conserve these remarkable woods. This trademark is for your protection. Look for it on the flooring woods with the control of the flooring woods.

# Floor with Maple



#### For Incineration, architects are specifying "INCINOR"

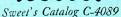
For seven years Mr. Perce G. Schley, A. I. A., designer for the Milwaukee architects, Geo. Schley & Sons, has specified

INCINOR for his charming residences. Notice the letter dates—seven years' unqualified endorsement! Like many another architect alert to contemporary trend, Mr. Schley bases his sound, domestic design on owner pleasure and comfort. INCINOR, as an important element of comfort, is specified everywhere by modern architecture.

For incineration, advise INCINOR, the portable, gas-fired Home Incinerator, which destroys all garbage, trash and rub-

bish as fast as it accumulates, burning it with gas, "the decent way." INCINOR reduces several bushels of refuse to a handful of clean, sterile ash—safely, quickly, completely, inexpensively.

Investigate "INCINOR"—send the coupon today for complete Architectural File Data.



HOME INCINERATOR CO., MILWAUKEE, WISCONSIN SECURITY BUILDING

## · INCINOR.

Good Riddance
GARBAGE.. RUBBISH.. TRASH

@1929, H.I.Co.

HOME INCINERATOR COMPANY
Dept. K-4, Security Building, Milwaukee, Wis.
Please send me free Architectural File data on home
Micineration.



Name			
Ivame			
Address		 	 

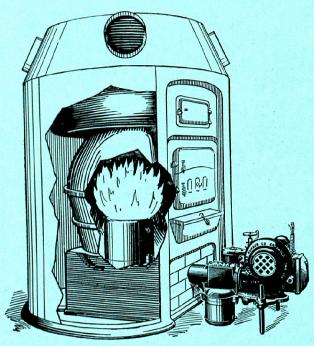


The LACO uses liquid fuel, manufactures its own gas. The only oil burner made using an indestructible wick. Far more simple than other burners. The LACO OIL BURNER sales have increased in four years so that we hold ninth place in the production of oil burners for 1928. There

is a cause for this rapid growth of the LACO. Its wick type, simplicity, actual performance, and freedom from service calls, as the LACO entirely eliminates any kind of ignition, for it operates on a pilot light from its own fuel.

The LACO is an approved burner and will pass the requirements of any city ordinance. We will gladly co-operate with the architects and builders.

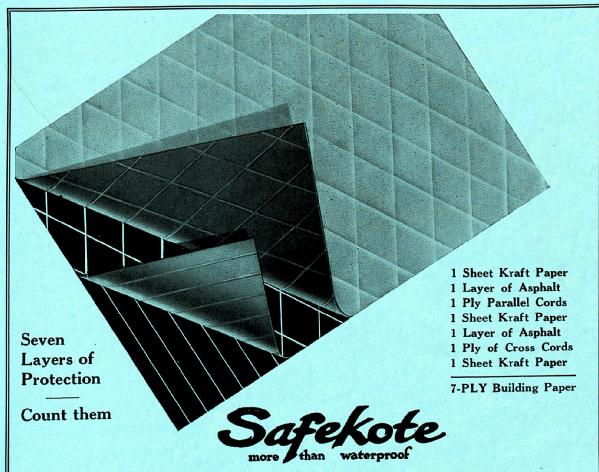
For further particulars write to the factory.



# LACO OIL BURNER CO.

613 UNION ST.

GRISWOLD - IOWA



# 7-PLY Building Paper

THE practicability of 7-PLY for every insulating and protective purpose cannot be equaled by any single sheet, duplex paper, or two-paper-reenforced combination.

7-PLY protects as long as the building stands, because the centre sheet in 7-PLY, being asphalt preserved and protected on both sides, can never rot out, dry out or disintegrate, thus insuring lifetime service.

7-PLY will not tear in the wind or through rough handling; will bend or crease without cracking; conforms readily to odd shapes; handles easily on the job. It is indeed the perfect insulating paper for every construction purpose.

> 7-PLY Builds Profits for Dealers Prestige for Architects, Contractors and Builders

JUST TRY 7-PLY ON THE NEXT JOB-AND BE CONVINCED

#### Safepack Mills Inc. sachusetts

t Greatly by Selling 7-PLY. Write for Prices.

k Mill	Lumber and Building-Supply Dealers	Millis Mas Dealers Will Profi		
	Safepack Mills, Inc., Millis, Mass.	Firm Na		
500 sq. ft., wide. , 250 sq. ft.	Kindly send without obligation, full in- formation, samples and prices on your remarkable 7-PLY Building Paper. SAB	City Attention		

	Kindly send y			
In rolls, 500 sq. ft.,	formation, sa			
36" wide.	remarkable 7			
Half rolls, 250 sq. ft.				
To order,				

Firm Name	 	 	
Street		 	
City		 	
Attention of		 	

COX

# "It isn't Right, to Tempt Them"



How often we have heard this said about leaving money laying around carelessly... about displaying costly jewelry unnecessarily. Yet in the school rooms not equipped with a safe method of taking care of books and wraps, we tempt little boys and girls in the most formative period of their lives! There is a constant temptation before them in those unlocked doors... those pretty clothes and nick nacks, that they can't resist. Stealing from the open clockroom is so easy that even small children carry on this petty pilfering and turn into "Baby Bandits".

The MILLER SCHOOL WARDROBE will stop them! How much easier to prevent . . . than to discipline afterward. The Miller School Wardrobe will absolutely prevent stealing . . . for there is only one key to the Miller Wardrobe doors . . . and the teacher holds that key. When she wishes, she can unlock the entire set of doors, or a single door, with one simple movement. This is the famous single control Miller School

lock the entire set of doors, or a single door, with one simple movement. This is the famous single control Miller School Wardrobe. The most up-to-date schools in America are instaling Miller School Wardrobes. Write today for catalog W-7 which gives complete information on these wardrobes.

123 W. Eighth Street K-M SUPPLY CO.

Kansas City Missouri

-ree,

#### BUILD WITH ARCHITECTURAL TERRA COTTA.



Illustrating 12th to 17th stories, incl., of the Socurity Building, showing the Terra Cotta trim

## THE SECURITY CO'S. OFFICE BLDG. MIAMI, FLA.

Robert Greenfield, Architect New York and Miami

This building is faced and trimmed with ARCHITECTURAL TERRA COTTA from our kilns.

The delightful combination of colors, the out-of-the ordinary surface treatment and body color of the TERRA COTTA was brought about largely by the good judgment and artistic ability of the architect and his co-operation with our technical departments, which we aim to keep at the peak of technical skill.

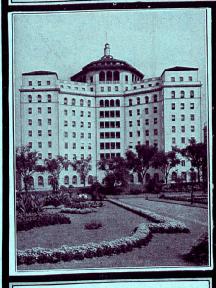
Our maintained standard of QUALITY, SERVICE and CO-OPERATION during more than forty years' manufacturing experience have been elements that have entered into the successful completion of this important architectural addition to the City of Miami.

#### CONKLING – ARMSTRONG TERRA COTTA COMPANY

PHILADELPHIA, PA.

Sales Office: 1600 ARCH STREET Executive Offices and Plant:
WISSAHICKON AVE. AND JUANITA ST.

## Fire Protection for Your Clients







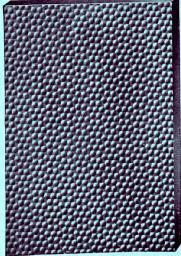


ASSURE your clients of proper fire protection by specifying Signal Engineering Fire Alarms Systems. There are types to meet every purpose and every requirement and all combine simplicity and durability of construction with perfect reliability.

A feature of Signal Engineering Fire Alarm Systems that the architect will appreciate is the fact that they are built to harmonize with architectural design. The entire mechanism of the bells is covered by the shell, and the stations are supplied for either flush or semi-flush mounting. Stations for flush mounting may be furnished with bronze framed glass doors if desired.

Signal Engineering Fire Alarm System Installed in Fifth Avenue Hospital, New York, N. Y. Architect, York & Sawyer, New York, N. Y. Electrical Contractor, Croker Electric Co. New York, N. Y. A. I. A. File Reference No. 31-i-31 Fire Alarm SIGNAL ENGINEERING & MFG. CO. 43 SEVENTH AVE., NEW YORK





DIFFUSEX is also available in wire glass for fire proofing—approved by Underwriters' Laboratories under fire retardant number R-2129.

## DIFFUSEX

#### Rolled Glass for Interior Uses

NEW PATTERN in rolled glass for interior partitions. Combines beauty, dignity and superior light diffusion without the use of sharp lines, grooves and pitted depressions—hence—DIFFUSEX will not collect dust and dirt and will stay clean under extreme conditions.

Made in  $\frac{1}{8}$ ,  $\frac{3}{16}$  and  $\frac{1}{4}$ " thicknesses with the smooth surface flat rolled by the BLUE RIDGE process eliminating waves and roller marks.

Also furnished with the smooth surface ground and polished in 3/16 to ¼" thickness—an ornamental polished plate glass for the finest type of buildings.

May we send you a sample?

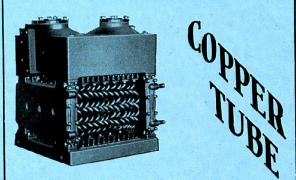
#### BLUE RIDGE GLASS CORPORATION, KINGSPORT, TENNESSEE

Manufacturers of SUPER-QUALITY ROLLED AND POLISHED GLASS

Western Sales Offices: 55 East Washington St., Chicago, Ill. Room 2-144 General Motors Bldg., Detroit, Michigan

Eastern Sales Offices: Metropolitan Building 1 Madison Avenue, New York, N. Y.

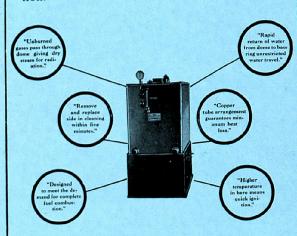
# BRYAN



# **BOILERS**

Bryan Copper Tube Boilers are increasing in favor with the better architects throughout the country. They are filling a long felt need for a specially designed boiler which would burn oil economically.

We will appreciate the opportunity of sending you full details as to construction and operation.



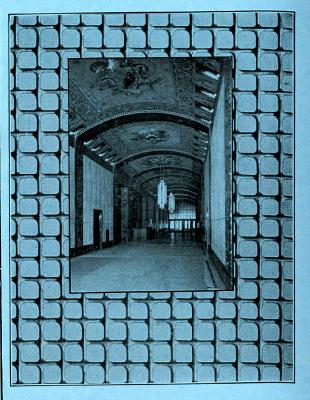
#### BRYAN STEAM CORP.

BOILER DIVISION

208 Bryan Bldg



PERUIND.



#### When finish costs Real Money

YOU want Clinton Wire Lath under the plaster.

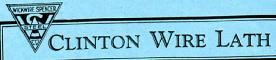
For then you know that the plaster is permanent. The drawn steel wires woven and galvanized together are as strong... yes stronger than sheet metal. And a perfect key is provided both horizontally and vertically.

These are days of high land values when apartments are leased from plans, offices rented before old buildings are demolished and occupancy planned to the day. Decorating must be done when the building is finished. There is no time to wait for the building to get through cracking. With Clinton Wire Lath cracking is reduced to a minimum. It's the lath to use when the finish costs real money.

#### WICKWIRE SPENCER STEEL CO.

45 East 42nd Street, New York

Worcester Buffalo Cleveland Chicago Atlanta San Francisco Los Angeles Seattle Portland





#### When You Specify Signal Mountain

Then our dealer serves with confidence

For this organization recognizes the importance of cement distribution through the regular dealer channels. The dealer is thus enabled to give exceptional "on time" delivery service on carloads or less under all conditions.

Signal Mountain Portland Cement is manufactured under positive chemical control assuring a finished product that is identical and unvarying in quality. Central plant location makes Signal Mountain Portland Cement easily accessible to all Southern points.

On the basis of actual results in many outstanding construction projects it is truly the Southern Product for Southern Construction.

"It Reigns Where It's Poured"

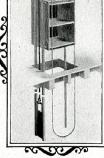


This trade mark identifies every sach of Signal Mountain Portland Cement.

# SIGNAL MOUNTAIN ORTLAND CEMENT COMPANY CHATTANOOGA, TENN

DUMB WAITERS and ELEVATORS

For all purposes



Geared Automatic Brake Dumb Waiter Type "FDCG"



The Sedgwick Invalid Elevator

TWO of the many types of Sedgwick Hand Power Dumb Waiters and Elevators are illustrated above. Twentyone standard types are available for immediate shipment, while special equipment is expertly, economically and promptly built to meet unusual requirements.

Early Consultation Advisable

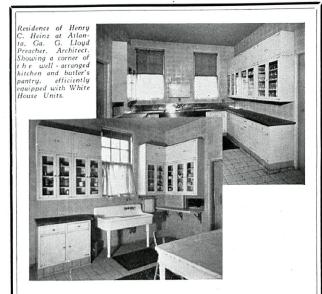
Consultation with us when plans are being drawn will assure selection of and provision for the equipment best adapted for complete satisfaction and economy in use.

Write for New Catalog

SEDGWICK MACHINE WORKS 163 West 15th Street, New York

occor.

SEDGWICK SERVICE SATISFIES



#### Make the Kitchen as Beautiful and Lasting as the House Itself

Well-known homes the country over have kitchens completely equipped with White House Units. The cost is only a trifle more than the cost of old-fashioned wood installations—and the saving on replacement makes the White House Kitchen an exceedingly profitable investment.

White House Units—made entirely of Steel —are fire resisting, moisture proof and germ proof. Three coats of baked enamel make them sanitary and easy to keep spotlessly clean. Any space may be filled simply by combining standard units. We will be pleased to furnish without obligation, sketches and estimates to fill your spaces and requirements.

You are cordially invited to visit our spacious new show-rooms where many combinations of White House Units, both for large and small homes, are on display.

#### JANES & KIRTLAND, INC.

Established 1840

101 PARK AVENUE

NEW YORK CITY





VENETIAN MODEL

#### Chromium Plated Rim

the latest touch of distinction to steel bathroom cabinets, to make them harmonize with bathroom fixtures. Elimination of holes in the glass and added protection to the mirror is also afforded by the Chromium Plated Rim. A perfect combination of beauty and durability, sought by architects and contractors in every building project.

### STEEL **BATHROOM CABINETS**



MODEL "C"



MODEL "B"

Model F, Venetian. 18x26-Mirror Model G, Venetian. 18x32-Mirror Models A and B have die stamp moulded frame. C and D have 1 1/4" frame.

ALL Models are made with diestamped boxes with radius corners and embossed shelf rests. All our cabinets are of Non-Corrosive Steel.

Write for descriptive folder showing complete line of Models

#### IDEAL CABINET CORPORATION

Division of Des Lauriers Metal Products Company

8841 Central Ave.

Detroit, Mich.

AGENTS

Atlanta, Ga., Murray Mantel & Tile Co., 234 Marietta St. Chattanooga, Tenn., Chattanooga Floor Laying & Sales Co., 121 Birmingham, Ala., Cad. Jones & J. Burks, 1001 Martin Bldg. Nashville, Tenn., Geo W. Ruth & Co., 151 North 4th Ave. Vitrolite Construction Co., 3207 Commerce St., Dallas, Tex. 1214 Peachtree St.

## Stained Glass



Memorial Windows

Mural Paintings

Venetian Mosaics

Special designs submitted without obligation



The George Nardy Payne Studios

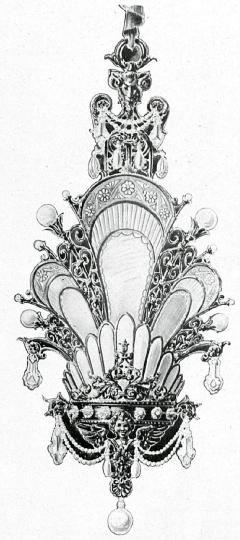
STUDIOS AT
Paterson, N. J. - Venice, Italy

Richmond, Va.

BRANCH OFFICES; Fort Worth, Tex.

Los Angeles, Cal.

### "MODERNE"



In bronze, crystal and carved glass.

Brochure of Installations upon Request

#### Victor S. Pearlman & Co.

Designers and Makers of Exclusive Lighting Fixtures 533-35 S. Wabash Ave.

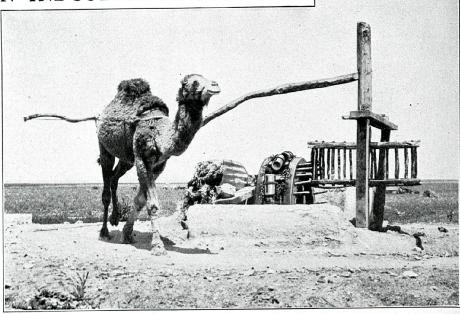
Southern Representative: MR. GLEN C. RHOADS,

Chicago, Ill.

1209 W. Morgan Ave.

Fort Worth, Texas

#### CONTRASTS IN INDUSTRIAL PROGRESS



## A one camel-power pump in Morocco

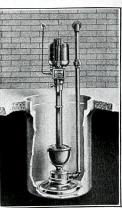
Perfectly content to spend his life traveling an inexorable circle, the camel here typifies the country which supports him. The centuries have left no mark mechanically on the sandy wastes known as Morocco, the land of desert warfare and religious fervor.

Water is elevated in the chain of earthen pots operated by the crude wooden device that is perhaps best described as a forerunner of a pair of bevel gears. Contrast this with the simple and efficient pumps we use today-equipment like the Penberthy Automatic Electric Sump Pump and Cellar Drainer, which are thoroughly automatic, fully dependable and have low operating costs.

Here indeed are the opposite ends of the march of progress.







Penberthy Automatic Electric Sump Pumps and Hydraulic Cellar Drainers for draining seepage water pits, piping tunnels, etc.



Many architects are specifying these pumps to the complete satisfaction of their clients. Penberthy Pumps are quickly obtainable from practically all leading jobbers.

## SOUTHERN ARCHITECT

## and BUILDING NEWS

**VOLUME 55** 

APRIL, 1929

NUMBER 4

#### **CONTENTS**

The Editor's Annotations	Brownlow Elementary School, Knoxville, Tenn43
A Challenge to Southern Architects	Wm. B. Ittner, Consulting Architect
Frontispiece40	Baumann & Baumann, Architects
Residence of L. W. Driscoll, Esq., Atlanta, Ga. Edouard Clerk, Architect From a pencil rendering by Mr. Clerk TEXT PAGE	Fair Garden Elementary School, Knoxville, Tenn 45 Wm. B. Ittner, Consulting Architect Barber & McMurray, Architects
The School Building Program of Knoxville, Tenn., 41 Wm. B. Ittner, Consulting Architect	Perkins Elementary School, Knoxville, Tenn 46 Wm. B. Ittner. Consulting Architect Barber & McMurray, Architects
Plate Section	Amelia Gorgas Memorial Library, U. of Ala.,
Southern Architectural and Industrial Arts Exposition	Tuscaloosa, Ala
The Architecture of Small Shop Buildings67 By Ray Holcombe	Interiors, Piedmont Driving Club, Atlanta, Ga., 51-55 Hentz, Adler & Shutze, Architects
PLATES PAGE	House of E. C. Griffith, Esq., Charlotte, N. C 57-61 M. E. Boyer, Jr Architect
Park City Junior High School, Knoxville, Tenn. 42 Wm. B. Ittner, Consulting Architect Baumann & Baumann, Architects	First Methodist Church, Charlotte, N. C 63-64 E. P. Phillips, Architect

Published on the 15th of the month by

#### HARMAN PUBLISHING COMPANY

Fourth Floor Trust Co. of Ga. Bldg., Atlanta, Ga.

Yearly Subscription, Payable in Advance, \$2.00

HARRY E. HARMAN, JR. BUSINESS MANAGER

ERNEST RAY DENMARK

FRED H. SORROW ADVERTISING MANAGER

#### Board of Advisory Editors:

FREDERIC C. BIGGIN, A. I. A. H. BUSH BROWN, A. I. A. RUDOLPH E. LEE, A. I. A. STANSLAW J. MAKIELSKI, A. I. A. JOHN L. SKINNER, A. I. A. WILLIAM P. SPRATLING, A. I. A. PAUL VALENTI, R. A. B. A., A. I. A. WILLIAM WARD WATKIN, A. I. A.

## The Dunham Differential Vacuum Heating System

## Gulf Building

Houston, Texas

Architect: Alfred C. Finn.

Consulting Architects:
Kenneth Franzheim and
J. E. R. Carpenter, New York.

Consulting Engineer: R. F. Taylor.

Heating Contractor: C. Wallace.

THE tenants and owners of this towering example of modern architecture are assured heating comfort and maximum fuel economy by the Dunham Differential System which circulates Sub-atmospheric steam through the 46,024 square feet of radiation installed to heat the building.

The boiler room with the Dunham Pumps and Control Valves are located in the basement. Steam from these control valves will flow to the main risers leading to pipe spaces above the ceilings of the 5th and 34th floors. Separate mains are provided in the 5th floor space for feeding downward to all floors below and upward to all floors including the 19th floor. The mains in the 34th floor space feed downward to all floors including the 20th floor.

All main risers, steam and return risers are well anchored and expansion is cared for by expansion loops so located as to insure proper grading of all piping under all conditions of temperature.

U. S. Patent No. 1644114. Additional patents in the United States, Canada and Foreign Countries now pending.

Over eighty sales offices in the United States, Canada and the United Kingdom bring Dunham Heating Service as close to you as your telephone. Consult your telephone directory for the address of our office in your city. An engineer will counsel with you on any project.

#### C. A. DUNHAM CO.

DUNHAM BUILDING -450 East Ohio Street, Chicago



#### A Challenge to Southern Architects

In this issue of the Southern Architect and Building News, we carry an announcement which to our way of thinking is by far the most important piece of text matter ever to appear in this magazine during its forty-seven years of publication. We make this statement with no reservations as we are sure the subject of this announcement is going to mean more to the architectural profession in particular and the building industry in general in the South than anything yet undertaken. This is an announcement of the First Southern Architectural and Industrial Arts Exposition to be held in Memphis, Tennessee, from November 9th to 16th under the auspices of the Southern Chapters of the American Institute of Architects.

In the August, 1928, number of this magazine there appeared under this department, "The Editor's Annotations," a brief outline or suggestion for such an exhibition of architectural photographs and drawings and a display of industrial art within the building field. And now, within seven months time an idea has culminated into an actual living thing. We are most naturally deeply interested in this exposition just as we are in everything that goes towards the advancement of architecture, the architectural profession and the allied arts in the South. If we can bring to you a full appreciation of the opportunity this exposition offers the profession of architecture and the benefits to be derived therefrom, to all branches of the Allied Arts we would feel that the Southern Architect and Building News had fully justified its existence.

This exposition means the birth of a new day for architecture and the allied arts in the South. It means recognition in a national way. It means better architecture and better construction and more than all, it is going to mean a better appreciation of architecture by the public which will rebound to the good of our cities, our countryside, and eventually to the happiness of our citizenship.

This First Southern Architectural and Industrial Arts Exposition offers an opportunity for a broader outlook on the part of the profession towards the future. A precedent will be established that the architects of the South cannot in the years to come fail to follow with increasing interest. The value of this undertaking cannot be measured or even approximated at this time. And certainly we of this gener-

ation have enough interest and pride in the profession we follow to let no stone go unturned to make this precedent what it should be for those to follow who are yet to come.

There is not a man in the architectural profession or a member of the Allied Arts that cannot, if he but stops and thinks, visualize the stimulating influence such an exposition will have on the part of the public, especially when we remind you that the exhibition of photographs and drawings shown at Memphis will be exhibited in practically every leading city in the South where thousands of people will view the work of our outstanding designers. Such a traveling exhibition will undoubtedly be far-reaching in view of the fact that it will bring to the public a composite picture of that which is best in architecture from the four corners of the South.

If the architects of the South are to ever take their rightful place alongside the men from other sections of the country it is imperative that they rally around the sponsors of this exposition for therein lies the only immediate means of gaining for themselves and the architecture of the South national recognition. We feel that through the Southern Architect and Building News we are doing our part towards establishing in the minds of the public as well as the profession throughout the country the value of the work being done in the South, which after all is a very important part of our national architectural scheme. The whole country is looking towards the South, there is no doubt about this, and the time has come when we should exert ourselves in a constructive effort to more forcefully bring the architecture and allied arts of this section before the public, the leaders in the profession and the heads of our industrial enterprises, who are helping us in a vital way to produce buildings that are on a par with anything being done in every other section of the country.

The magnitude of this exposition and its success calls for the full co-operation of every member of the architectural profession and the allied building arts. Unless we enter into this matter with serious forethought, giving our best to the end that this first Southern Architectural and Industrial Arts Exposition shall become the basis for still greater exhibitions in the future, then we shall have missed the greatest opportunity southern architecture ever had to make itself known throughout the nation.



RESIDENCE OF L. W. DRISCOLL, ESQ., ATLANTA, GA. EDOUARD CLERK, ARCHITECT FROM A PENCIL RENDERING BY MR. CLERK

Southern Architect and Building News April, 1929

# SOUTHERN ARCHITECT

#### and BUILDING NEWS

VOLUME 55

APRIL, 1929

NUMBER 4

#### 更更

## Knoxville's School-Building Program

WILLIAM B. ITTNER, F. A. I. A.,\* Consulting Architect

N 1924 the board of education of Knoxville, Tenn., initiated a school-building survey. After a comprehensive and thorough study of this survey it found itself face to face with the following school-building problems:

1. A housing shortage of more than three thousand children—over seven thousand elementary-school children on half-day sessions, due to rapid increase in population, expansion of city limits and a long period of building inactivity.

2. Many old school buildings not providing adequate facilities for the development of a forward-looking educational program.

3. An administrative department housed in three rooms of the senior high school, which were wholly inadequate.

The board of education voted unanimously to adopt the following policies in evolving a solution to their many-sided school-building problem:

- 1. To develop a comprehensive school-building plan with consideration of estimated future growth and expansion.
- 2. To plan an immediate building program, in tune with this larger perspective, to be executed in the order of greatest needs.
- 3. To reorganize the schools from the 7-4 plan to 6-3-3 plan of organization.
  - 4. To build larger and therefore fewer schools.
- 5. To rezone for a more efficient distribution of school centers.
- 6. To enlarge present sites where possible and to acquire others as far in advance as practical.
- 7. To provide kindergartens in all the elementary schools.
- 8. To include in each school center as far as possible adequate provisions for health and physical education, a library, and a cafeteria in addition to the required number of classrooms.
- 9. To demand the highest standards in safety, sanitation, heating, and lighting—briefly, fire-resistive construction and the "open plan."

10. To encourage the type of architecture that fits in best with the history and traditions of a southern city like Knoxville.

The initial step in the building plan was made possible by the \$2,250,000 bond issue. The immediate program was divided into elementary schools (first six grades and kindergarten), junior high schools (grades seven, eight and nine) and senior high schools (grades ten, eleven and twelve), and provision for the housing of the administrative department.

The elementary-school program consisted of seven new schools, and the rehabilitation and expansion of eight old schools. The secondary-school program included two new one-thousand-pupil junior high schools, a detached gymnasium building for the senior high school, and a new Negro senior high school.

Knoxville's model elementary-school building is represented by the typical plan developed for the new Perkins school, one of the first projects of the immediate building program. It was planned as a 1,000-pupil school and will be executed in two installments. The plan may be expanded to a 1,500-pupil capacity.

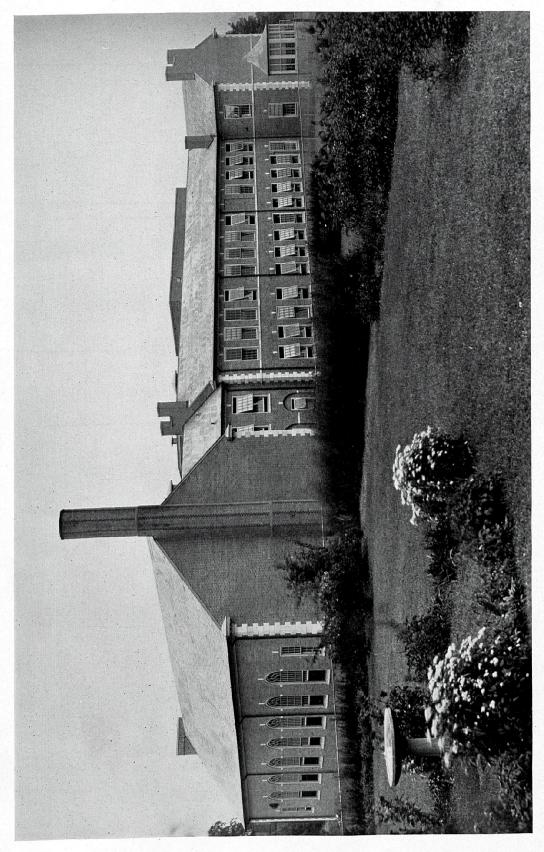
The initial unit for the Perkins school accommodated 640 pupils. The plan shows a combination auditorium-playroom (40 by 80 ft.) with stage, cafeteria, and kitchen grouped on the first floor. Although 18 classrooms are required for the 1,000-pupil capacity, only 9 were necessary for the first unit, with a kindergarten, a music room, a library, and a classroom-auditorium making up the additional units. The classroom-auditorium, which measures 22 by 33 ft., is provided with a small stage. It will serve as a classroom, a room for literature and dramatics, as well as for auditorium work for small groups.

The typical elementary-school plan executed for the Perkins school became the guide to all the new elementary schools, as well as additions to old build-



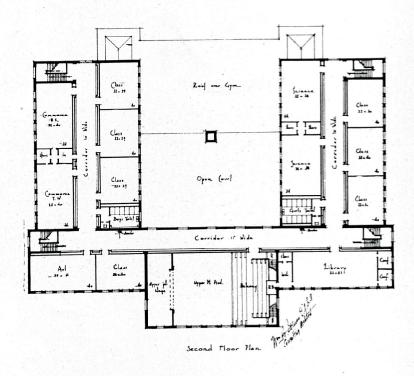
PARK CITY JUNIOR HIGH SCHOOL, KNOXVILLE, TENN. WILLIAM B. ITTNER, CONSULTING ARCHITECT, ST. LOUIS. MO. BAUMANN AND BAUMANN, LOCAL ARCHITECTS, KNOXVILLE, TENN.

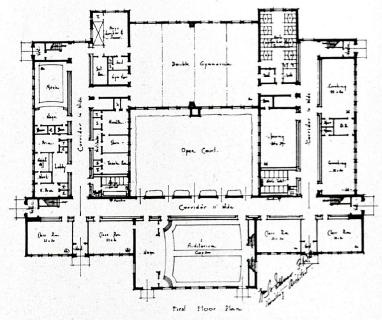
The Park City represents the typical junior high school for Knoxville. It is planned for 1,000 pupils and is located on an 18-acte site. The plan shows two stories and an arrangement around a central court. The auditorium forms the central feature of the main facade and has two direct outside entrances. Cost—\$307,520, yielding a per capita cost of \$307,52.



BROWNLOW ELEMENTARY SCHOOL, KNOXVILLE, TENN.

WILLIAM B. ITTNER. CONSULTING ARCHITECT. ST. LOUIS. MO. BAUMANN AND BAUMANN. LOCAL ARCHITECTS. KNOXVILLE, TENN.
This attached addition represents two-thirds of the new typical elementary school. Only a part of the roof of the old building can be seen in the picture. Eventually the remaining one-third of the new typical school will replace the old building.

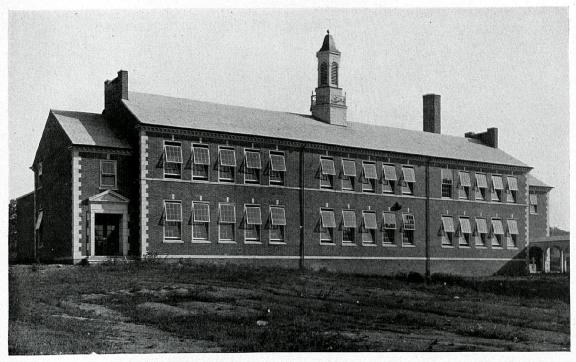




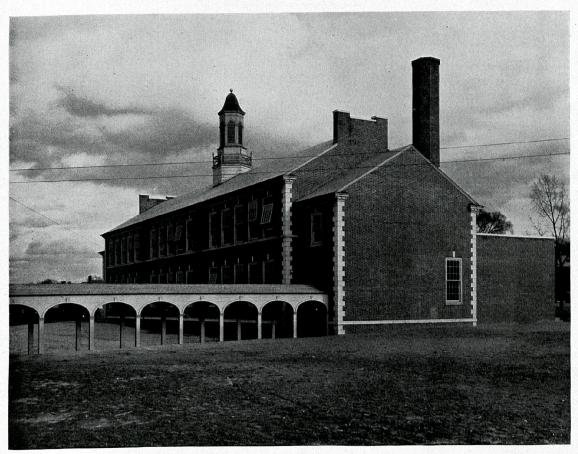
FLOOR PLANS

BROWNLOW ELEMENTARY SCHOOL. KNOXVILLE. TENN.

WM. B. ITTNER, CONSULTING ARCHITECT BAUMANN & BAUMANN, ARCHITECTS

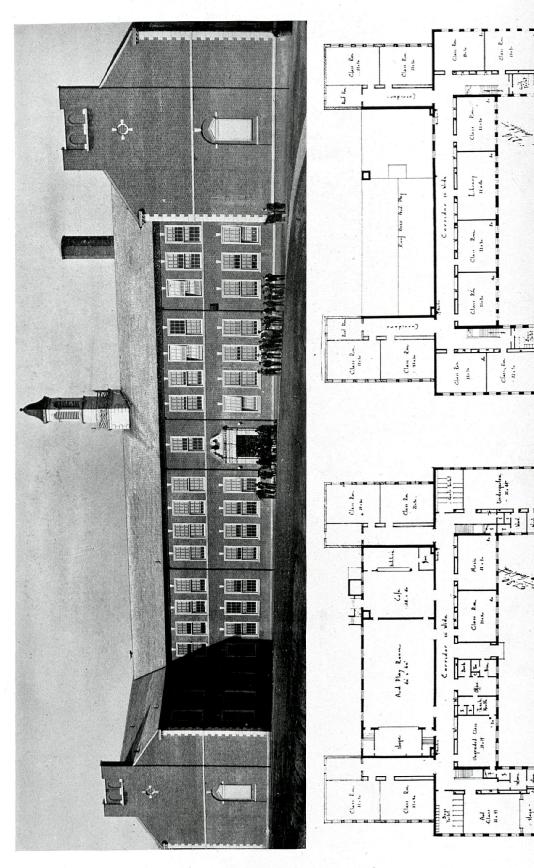


Another view of the detached annex which is in reality the central main unit of a new school like the Perkins



FAIR GARDEN ELEMENTARY SCHOOL, KNOXVILLE, TENN.
WILLIAM B. ITTNÉR, CONSULTING ARCHITECT, ST. LOUIS, MO.
BARBER AND MCMURRAY, LOCAL ARCHITECTS, KNOXVILLE, TENN.

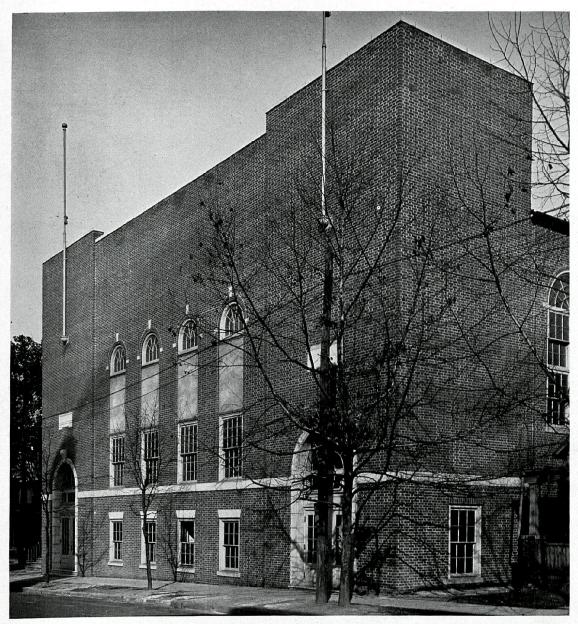
Illustration shows a detached addition to an old building and the arcade connecting the new part with the old.
In addition to its role as a detached annex, the new part becomes the first unit of a new school which will gradually replace the old building. All additions to the Knoxville elementary schools were planned for expansion.



First Floor Plang

EXTERIOR VIEW, PERKINS ELEMENTARY SCHOOL, KNOXVILLE, TENN. WILLIAM B. ITTNER, CONSULTING ARCHITECT, ST. LOUIS, MO. BARBER AND MCMURRAY, LOCAL ARCHITECTS, KNOXVILLE, TENN.

Located on a four-acre site, this school was first to be executed from the typical elementary-school plan developed for Knoxville. The school represents Knoxville's idea of an elementary school needs of the city. Illustration shows the initial unit for 620 pupils. Eight additional classrooms will be added when needed, by extension of the wings, of present unit, \$115,713.80, Per pupil cost, \$186,63, that Cost



WILLIAM B. ITTNER, CONSULTING ARCHITECT

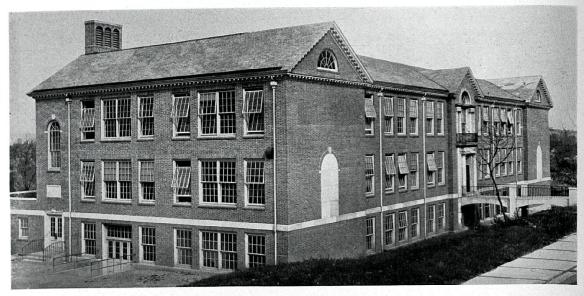
DETAIL. DETACHED GYMNASIUM ANNEX TO THE SENIOR HIGH SCHOOL, KNOXVILLE

ings. All additions, as well as new buildings were planned to allow for expansion.

The cost of the first installment of the Perkins school was \$115,713.80. As its working capacity is 640, the per-capita cost approximated \$180.80. The low cost is due to several causes: First, cubic-foot building costs are comparatively low in Knoxville and vicinity, ranging from 24 cents to 28 cents; second, since Knoxville is a southern city, the cost of heating and ventilating apparatus is materially reduced

By far the most difficult part of the elementary-

school program was that of dealing with the modernization and expansion of the existing buildings. Seven white schools and one Negro building were included in this program and each case presented all sorts of engineering and architectural problems. Six of the expansions took the form of additions attached to old buildings. The remaining two were detached annexes forming the nuclei of new buildings. The typical elementary-school plan for the new Perkins school served as the guide to the educational requirements of the annexes. In all cases the old buildings were put in shape for classroom work



WM. B. ITTNER, CONSULTING ARCHITECT

BAUMANN & BAUMANN, ARCHITECTS

AUSTIN (COLORED) HIGH SCHOOL, KNOXVILLE, TENN.

while the additions supplied the special units required for the special studies with as many more classrooms as were needed for the educational program. In all cases also, new and larger heating plants in new quarters replaced the old ones. Basement space, thus vacated, was fitted up as cafeterias or workshops. A future building program will enlarge the additions into complete new buildings.

The immediate Knoxville program called for two new junior high schools. The new Park junior-high-school plan represents the typical junior high school for Knoxville. It is planned for one thousand pupils and is located on an 18-acre tract. The plan shows two stories and is arranged around a central open court. A double gymnasium measuring 60 by 80 ft., with full shower and locker accessories closes in the court at the rear.

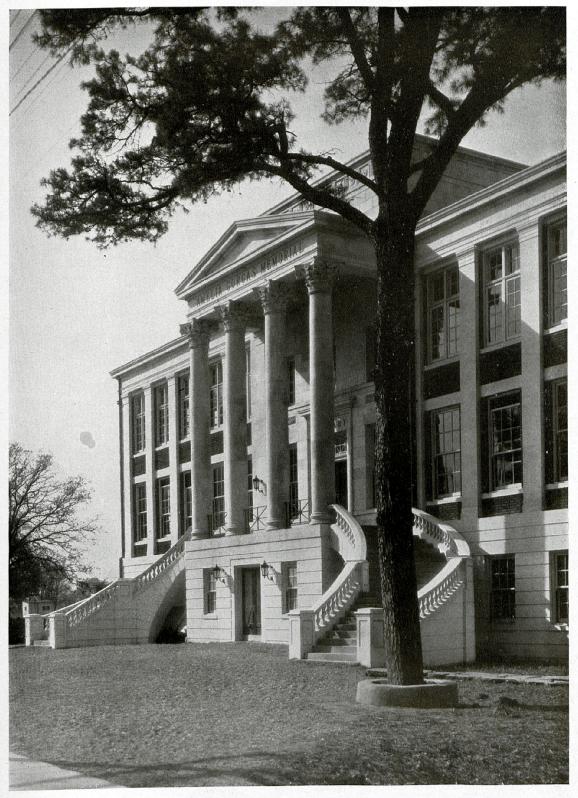
The auditorium, seating 500, equipped with stage, forms the central feature of the main front facade of the building. It has two outside entrances. Aside from the eleven classrooms, each 22 by 30 ft., the plan shows a music room with a capacity for 80, planned as a small auditorium, three home-economics units, two general-science laboratories, a commerce group of two rooms, an artroom, and a library sufficient for 70 pupils at a time. Six shop units, and a cafeteria (not indicated in the illustration) form the rear ends of the wings on the basement level. These were possible by taking advantage of the drop in grade. Recessed lockers are provided along the corridor walls.

The cost of the typical junior school as represented by the Park junior high school is \$307,520, yielding a per pupil cost of \$307.52.

The new Rule Junior High School although including practically the same educational content and mechanical features as the Park, departed in many respects from the typical plan owing to the topography of the grounds. The gymnasium, auditorium, and library units are located similar to the Park school. Most of the other units show variation in location and grouping.

As the senior-high-school situation presented no problem of congestion and as the existing building was in a fair state of preservation and centrally located, consideration was restricted to the expansion of educational facilities, particularly physical education. As the existing building and the small site did not permit of a detached addition, nor even an annex in close proximity, ground was acquired across the street from the present building. On this site a gymnasium building was erected, which contains a double gymnasium 78 by 88 ft., capable of division, and planned to accommodate 800 spectators. It includes also two smaller corrective gymnasiums, four combination office and examination rooms, and the required number of physical education accessories. This gymnasium annex and an addition to the old heating plans solved the immediate problem of the senior high school.

While the Negro population in Knoxville is small compared with most southern cities, still the problem of congestion was proportionately greater. Aside from an attached addition to one of the elementary schools previously mentioned and three two-room buildings to accommodate isolated groups of colored children, a new senior high school was built. The plan for this building approximated closely the typical plan for the white junior high schools, including an auditorium-double gymnasium with stage, seating capacity 800, shops, homemaking suite, library, health rooms, and cafeteria. An auditorium apart from the gymnasium is planned for the next unit added.



ENTRANCE DETAIL

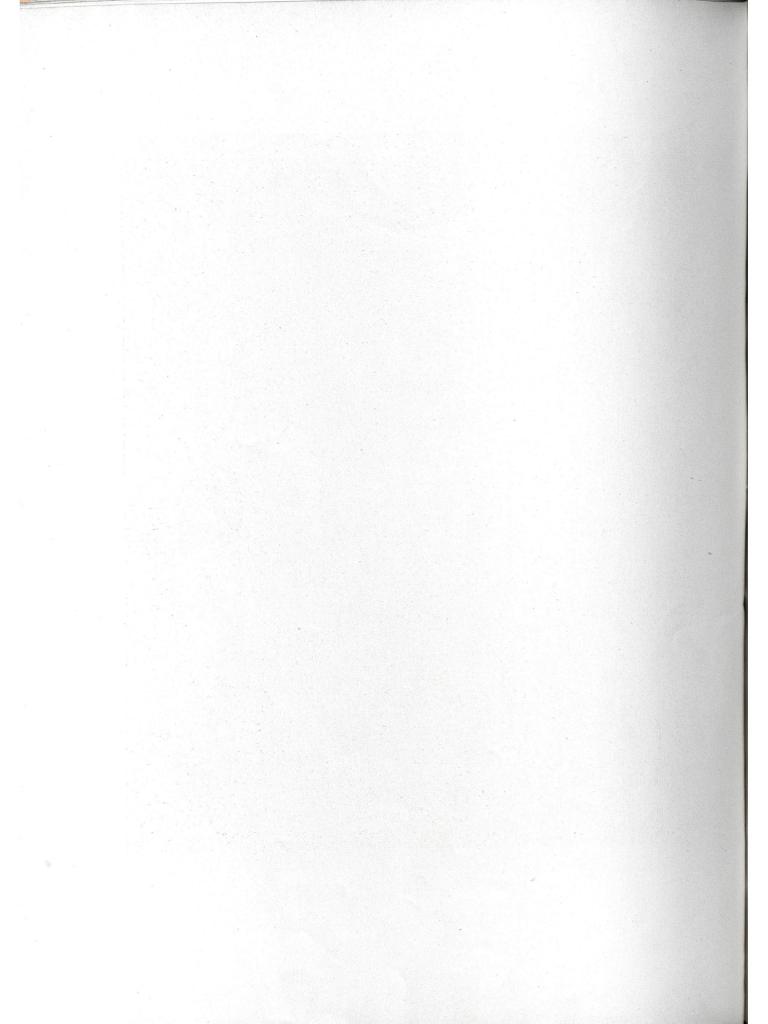
AMELIA GORGAS MEMORIAL LIBRARY, U. OF ALA., TUSCALOOSA, ALA.

MILLER AND MARTIN. ARCHITECTS





INTERIOR OF PIEDMONT DRIVING CLUB, ATLANTA, GA. HENTZ, ADLER & SHUTZE, ARCHITECTS

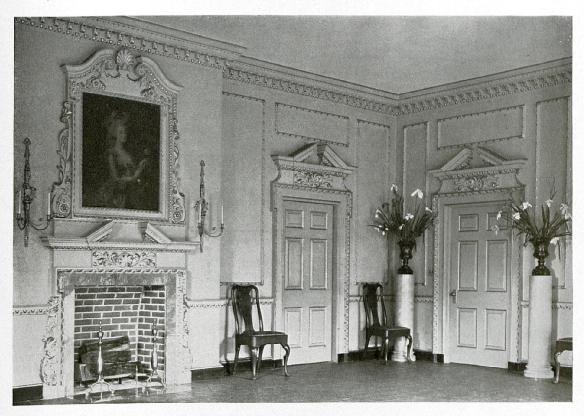




INTERIOR OF PIEDMONT DRIVING CLUB, ATLANTA, GA.

HENTZ, ADLER & SHUTZE, ARCHITECTS





INTERIOR OF PIEDMONT DRIVING CLUB, ATLANTA, GA.



INTERIOR OF PIEDMONT DRIVING CLUB, ATLANTA, GA.
HENTZ, ADLER 8 SHUTZE, ARCHITECTS



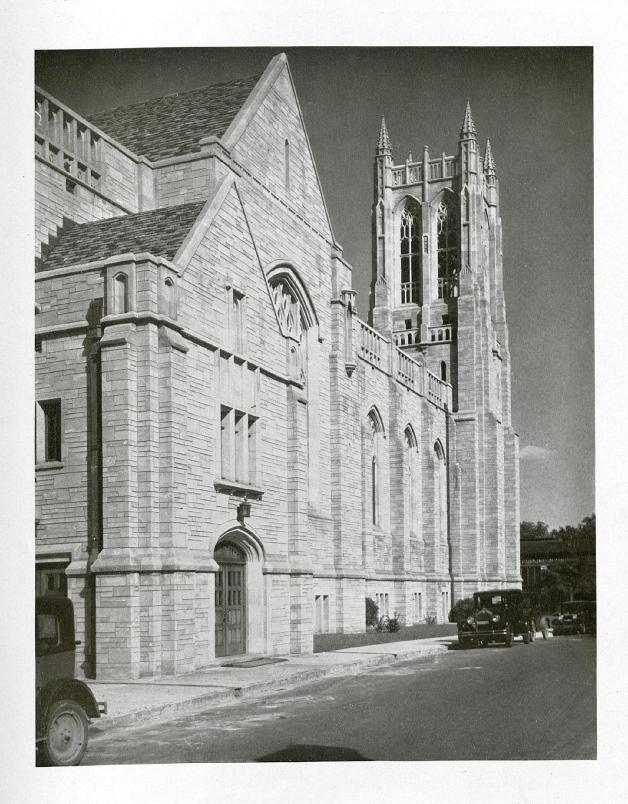


DINING ROOM

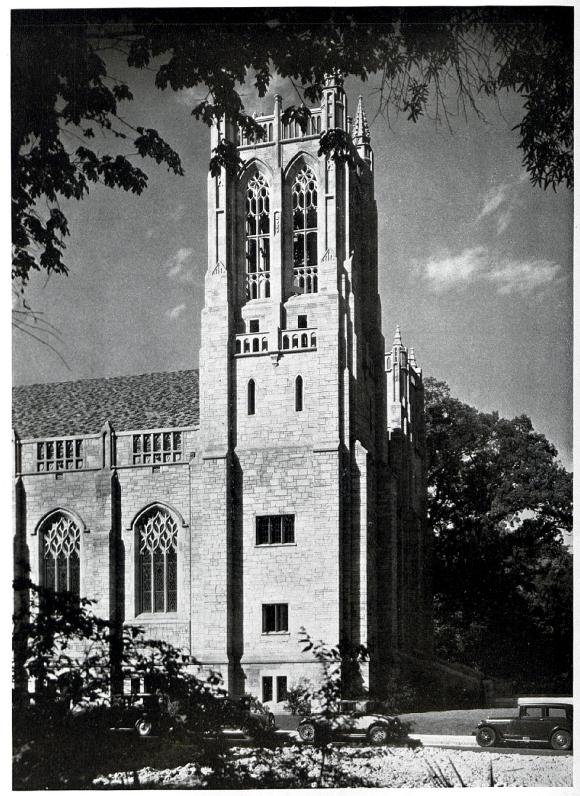
HOUSE OF E. C. GRIFFITH, ESQ., CHARLOTTE, N. C.

M. E. BOYER, JR., ARCHITECT





FIRST METHODIST CHURCH, CHARLOTTE, N. C. E. P. PHILLIPS, ARCHITECT



TOWER DETAIL
FIRST METHODIST CHURCH, CHARLOTTE, N. C.
E. P. PHILLIPS, ARCHITECT

To be held under the auspices of the Southern Chapters of the American Institute of Architects & Exposition Managers

November 9th-16th, 1929, Municipal Auditorium, Memphis, Tenn.

By M. H. FURBRINGER, Chairman

THE raison d'etre of an Architectural and Industrial Arts Exposition is three-fold, and the value to each group is in direct proportion to the interest which is manifested in such an undertaking.

The architect is enabled through the medium of an exhibition to show the results of his labors by pictures of buildings still in an embryonic stage and through the full gauntlet of the process by which a problem is solved; while the finished product which his loving care has guided through the labyrinth of necessary routine, can be so interestingly displayed that the casual visitor will pause to admire the examples of the architect's handiwork and untrained to observe for himself, will ponder over the fact that so much of merit and beauty had failed to command his attention in his daily walks along the highways and byways of life.

The spirit of friendly competition which an architectural exposition should arouse among architects, will serve as an urge to greater effort and the presentation of drawings prepared by those who are confronted with the same or similar problems that we struggle with from day to day, will tend, if the spirit of fair play guides our better selves, to instill a desire to expend more effort on the next task we undertake.

Handicapped on the one hand through a reticence, which seems to decry self-laudation, and hedged in by professional ethics, the architect has at best but limited opportunities for presenting to the public the character of service he performs, his ability to execute the work intrusted to him and for which he is trained, and the accomplishments which a life of devoted sacrifice has qualified him for. The wisdom of trying to catch and hold the attention of the public through the publication of articles in magazines or the daily newspapers with the responsibilities of the architect, the nature of his calling, and his qualifications and fitness to properly perform the duties intrusted to him, is open to question, but to attempt to accomplish these results through the medium of an architectural exhibition cannot be disputed, for the popular interest which exhibitions of this kind always command proves this beyond doubt. It should seem unnecessary to indulge in any lengthy argument on a matter so well known to us all, were it not for the fact that the opportunity afforded seemed, until recently to have aroused so little interest among the architects that it would be amusing were it not so serious.

However, as the full extent of this undertaking is being unfolded and the architects of the South are beginning to realize the scope and magnitude upon which this venture was conceived and the plans for the Exposition begin to assume more definite shape, the responses are more encouraging, and those who have sponsored this Exposition seem in a fair way to have their greatest expectations realized.

The Allied or Industrial Arts will be enabled through the opportunity afforded them by an exposition, to place before the public materials which enter into the construction and decoration of buildings, and the architect will be able to judge the effect of the finished products, on a more or less comparative basis, of those elements which constitute his palette and with which he builds into permanent and enduring form, the structure of his dreams. By close juxtaposition of the many exhibits which will be on display, an architect, as well as his clients, can conceive with a fair degree of certainty the effect which different materials will produce and that manufacturers and artisans realize the value of having their products so displayed, is evidenced by the fact that a keen interest in this exposition is being shown by those who have been made acquainted with the plans of the exposition managers and sponsors.

Because the writer has arbitrarily placed the public as the last on the list, is not to be taken as an indication that their interests in an exposition are in any way subordinate to those of the architects or of the Allied Arts, for it is both unwise to presume, and untrue to say, that the public is not concerned with an undertaking which can, and does, reflect so largely the accomplishments of our age. An architectural exhibition such as this will be, affords a place where the laymen can amidst pleasant surroundings, and in a leisurely manner, survey the developments which are taking place in the very midst in which he moves, where he earns his livelihood, and in the environment where he rears his family. Surrounded on every side with pictures which illustrate the latest creations of the leading designers of the South and decoration of homes and buildings, all of which will form an ensemble complete and interesting, it would be hard, indeed, to conceive of anyone who would not be pleasantly surprised at the opportunity of enjoying so wonderful a display of the handiwork of the members of the Architectural profession and the Allied Arts.

An Architectural Exposition affords better than any other means to place before a public eager to learn, the changes which are taking place with such rapidity in our cities and rural communities, and which makes life both complex and interesting. A stroll through the architectural galleries, the walls of which will be covered with material forming a pleasing background, and on which the drawings will be displayed with a soft, diffusing light penetrating through the transparent material of the ceiling overhead, will present in a complete panorama the progress of the architecture of today. The "Old South" will be shown by a group of pictures illustrating the extent to which domestic architecture in this section of the country had developed before the decline set in. The advocates of "Modern" architecture which even its severest critics admit has possibilities, near or remote as the individual accepts or rejects its tenets, can, if intelligently seeking information, be enlightened to the beauties of Classic architecture while on the other hand, the laymen who, perhaps through study or travel abroad, is inclined to judge all art as dross which does not bear the imprint of Greece or Rome, can, through the work on display learn that there is merit in much of the work developed along modern lines.

The architects of the South are solicited for their wholehearted co-operation and the request is made that they remember that this exposition will be held in Memphis in November, this year, and that the success of this undertaking will in a large measure depend upon the spirit with which they, the architects, respond to the request to send samples of their best work, which may be either drawings or photographs. Models of homes and their surroundings or of any type of structure, can and will be prominently displayed and the committee expressly desires exhibits of this kind for the reason that the people who attend exhibitions are favorably impressed with such models. The attention of the Chapters of the A. I. A. of the South is likewise directed to the fact that the materials comprising the Architectural Exhibit will be sent on a circuit of those chapters who desire to have, and are willing to assume the financial responsibility, of a local Architectural Exhibition and that furthermore, it is the hope of the Committee representing the Southern Chapters that an Architectural and Industrial Arts Exposition be held in some Southern city once every two years, as only in this way can the attention of the country be directed to the wonderful artistic and industrial development which has, and is, taking place in the South.

Thus, indeed, is an opportunity presented to the architects of this part of our country to show that the South has the talent, the culture, and the desire

to enjoy the finer things of life and unless all indications have been misread by those who have largely given of their time and efforts in directing this undertaking, a new era is at hand and to no one will the benefits be so large and the returns so immediate as to the architects themselves.

The Board of Directors of the American Institute of Architects has been invited to hold their meeting here during the week of the Exposition and it is the intention of the Committee to suggest that a regional conference of all Southern Chapters be called to meet here. An invitation will also be extended to the Producers Council to hold their convention here and coupled with these activities, there will be during the period of the Exposition, organ recitals by an organist of national renown; then, too, there will be interesting and inspiring talks and lectures on Architecture, Painting, Sculpture, and the Allied Arts, to which the public will be invited.

The Municipal Auditorium in this city is well arranged for the holding of an Exposition of this kind, for in addition to the large arena, which will contain the galleries and the Court of Honor in which the architectural exhibits will be placed; the adjoining hall which is of large dimensions will house the industrial exhibits and these vast spaces being on the ground floor contain ample area for this undertaking. The meetings and conferences will be held in the banquet room on the second floor and the concert hall will be used for the organ recitals and lectures. The galleries which will contain the architectural exhibits will be of ample width and height and artistically treated and the Court of Honor, which forms the focal point of this portion of the exhibition hall, will be decorated with mural paintings, and grouped in the open spaces contained in this area, will be placed statuary, palms, and potted plants, and those drawings which in the opinion of the judges are of such outstanding merit as to deserve the place of honor in the exhibition; incentive sufficient, it would seem to place every designer on his mettle.

The Tennessee Chapter appreciates the honor conferred upon it by the other chapters in having been selected as the first chapter to sponsor the holding of an exposition, national in scope, in the South, and the City of Memphis extends through its Chamber of Commerce, its various Civic Organizations, and the members of the Local Chapter A. I. A. an invitation to every architect to accept the hospitality of the city during the week of November 9th to the 16th.

In closing allow me to repeat the three-fold purpose of this exposition and to request that the architects do not fail to respond to the appeal to do their duty by preparing drawings and photographs of their work, resting assured that competent judges will select the material submitted to be hung and to be illustrated in the catalogue of the exhibition. By RAY HOLCOMBE

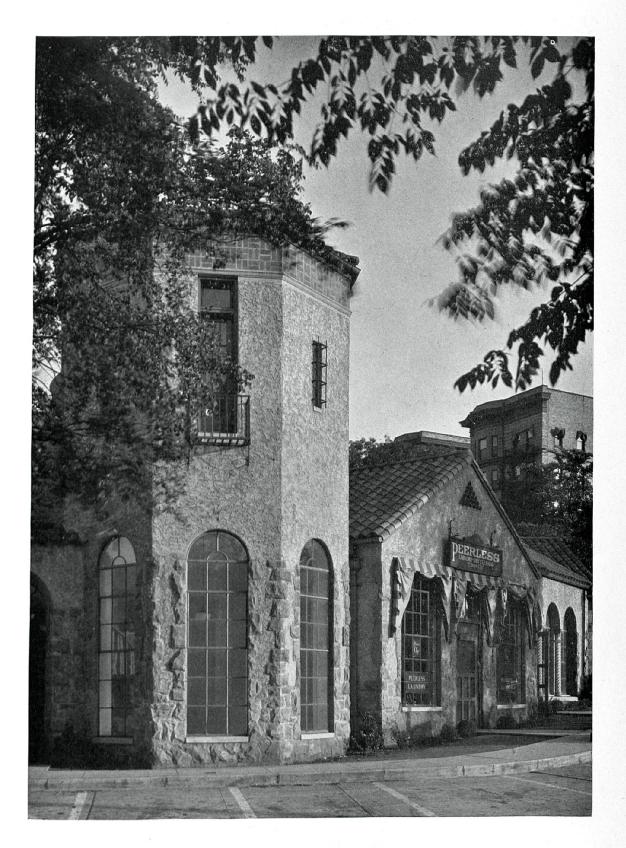
T has been said there are two principal methods of education: one where we learn by our own experience, and the other, from the example or experience of others. Perhaps one of the best ways, therefore, to be convinced of the value of any given plan is to observe the results for which the plan has been responsible elsewhere. This axiom might well be applied here in our consideration of the Architecture of Small Shop Buildings. Any one visiting the city of Birmingham, Alabama, will, if he qualifies in the least as a good observer, be impressed with the great number of attractively designed suburban shops. It seems to be a recognized principle of good business among the Real Estate Developers in that city to have their community shops designed by architects rather than the customary method of engaging the services of some contractor and erecting buildings from "service-for-all" stock plans. That this method has been consistently carried out within the newer developments proves that it is good business for the small shop owner to have his buildings designed by a capable architect.

The Five Points Shop group, here illustrated, is an unusually attractive plan for the development of a corner lot. The central tower motif accentuates the plan and forms the key around which the wings radiate in pleasing harmony. The stucco walls with variegated stone flaggings as trim, with the colorful frieze of glazed tile around the tower and the Spanish tile roof, all contribute to give life and color to a well balanced and nicely designed exterior.

There are today in cities, suburbs and rural districts far too many shops which have been designed by architects without sufficient study to lend the quality which in itself is an argument for securing architectural service. When the suburban shop keeper can look up Main Street and point to a durable, well constructed and not unsightly building designed by some local contractor, and contrast it with some of the ornate designs perpetrated by unthoughtful or careless architects, it is no easy problem to convince him that architectural service is worth while. So if, as is true in many districts, architects are not called upon to do small shops as often as they should be,



FIVE POINTS STORE GROUP AT BIRMINGHAM, ALABAMA MILLER & MARTIN, ARCHITECTS



TOWER DETAIL, FIVE POINTS STORE GROUP, BIRMINGHAM, ALABAMA MILLER & MARTIN, ARCHITECTS



INTERIOR DETAIL IN A NUNNALLY CANDY SHOP, ATLANTA, GA. HENTZ, ADLER & SHUTZE, ARCHITECTS

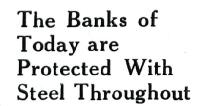
it is probable that the fault lies primarily with the architectural profession, and particularly with those members of the profession who are prone to do these so-called "simple" jobs in a careless and uninterested manner.

The architect who discusses with his prospective client the subject of shop buildings must realize first of all, that the average retail merchant has no idea of spending any large amount of money to fix up the old front. This is generally the job to be done rather than designing outright a new structure. Therefore he must talk price as well as quality. On first thought this would seem to impose a handicap upon the architect at the very start, for everyone

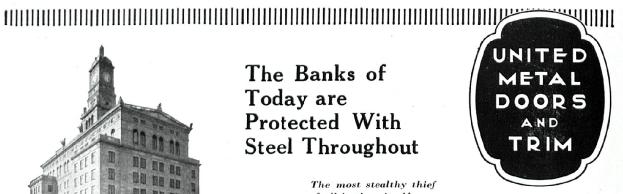
knows that it takes money to do good architecture. However, it is not good business on the part of the architect to flash upon the poor unsuspecting merchant an elaborate design that would cost three or four times as much as he could reasonably expect him to put into the job. It is far better to start with a simple, inexpensive design and then with the proper sales talk on quality and attractiveness of the finished building, such as would prove a real investment for him, convince the client of the propriety of spending more money. In this way you can usually put over to your client the desire to erect just the proper shop front that you originally had in mind for him.

Savings Bank Bldg. Davenport, lowa

Architects-Weary & Alford



The most stealthy thief of all is time itself.



Massive Steel Bolts, drill-proof steel plates, guard the great vaults where money and valuables are kept, yet in many banks no precautions are taken against the depredations of Time.

Others, building for generations to come, specify United Hollow Metal Doors and Trim, Elevator Enclosures and Partitions, proof against the passage of the years. In this age of steel, no building can be considered mdern with burnable interior construction. United makes fire hazard unnecessary.

THE UNITED METAL PRODUCTS CO.

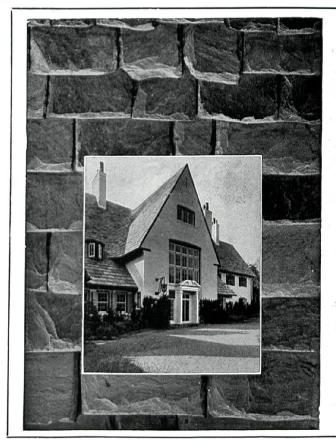
CANTON, OHIO

Sales and Service Offices in all Principal Cities

Write for Complete Information



#### 



#### Old European

## SLATE ROOFS

of Lasting Beauty

Natural colors growing more beautiful with age

Greens, Greys, Purples, Reds, Blacks, in varying shades and mottled effects

Let us outline a roof suggestion for you

Send for latest Price List

#### KNICKERBOCKER SLATE CORPORATION

355 West 26th Street, New York

STANDARD ROOFING SLATE STRUCTURAL SLATE BLACKBOARDS—GARDEN WALKS

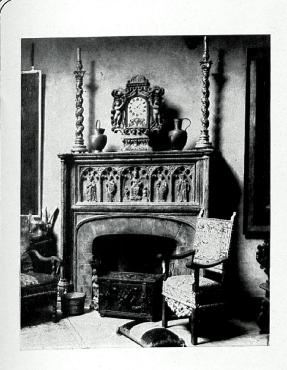


# HOPE'S METAL WINDOWS



## **LEADWORK**

HENRY HOPE & SONS
101 PARK AVENUE, NEW YORK



## Art Stone Mantelpieres

In All Periods

Replicas which in every way equal the texture and beauty of the originals

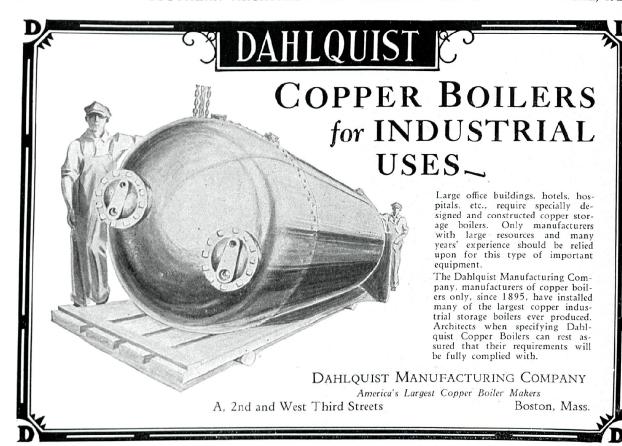
Also Lignoid Compo Ornaments For Woodwork

Jacobson Mantel & Ornament Company

322 East 44th Street New York

Louis Geib

ARTHUR P. WINDOLPH



#### SPECIFY SIMPLEX FLUSH VALVES



#### Simplex Flush Valves In Lake Charles Hotel

 $S^{\text{IMPLEX Flush Valves}}$  were selected for this building on the following points:

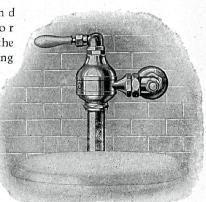
They can be easily adjusted from the outside to any water pressure.

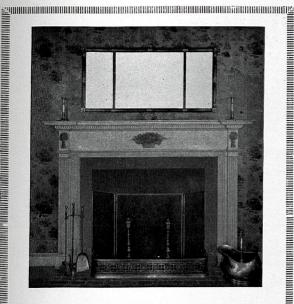
The four-way by-pass arrangement is the reason for this easy adjustment and also insures the valve from clogging.

Quality and reputation for service were the final deciding factors.

Lake Hotel, Lake Charles, La. Jos. Finger, Archt. El Dorado Plbg. & Htg. Co., Plbrs. N. O. Nelson Mfg. Co., Jobbers.

> Ask Your Jobber





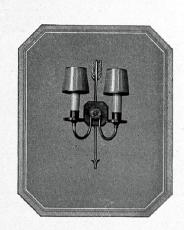
#### ARNOLD & NORTH

INCORPORATED

203 East 43rd Street

NEW YORK

Reproductions of Early American and English Mantelpieees and Fireplace Accessories



Of Directoire origin and lending itself nicely to Colonial surroundings

#### HORN & BRANNEN MFG. CO.

Designers

Manufacturers

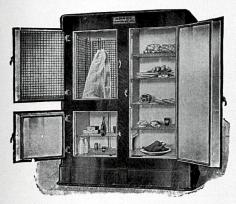
Importers

427-433 NORTH BROAD STREET PHILADELPHIA. PA.

Our product sold by all first-class dealers

## Food keeps BEST in the

THE ARISTOCRAT OF REFRIGERATORS



It is easy to include the Herrick refrigerator in the plans. Hundreds of Architects and Builders are doing this with the Herrick catalog and blue-prints.

Herrick offers a complete line of quality refrigerators for homes and apartments and also commercial installations. Herrick water cooling and outside icing refrigerators are known for convenience they offer. Ice or electric refrigeration can be used in any Herrick.

#### Herrick Refrigerator Company

2100 South Land Ave.

Waterloo, Iowa

#### The Ventilation Problem

in public buildings is easy to solve with

BURLINGTON VENETIAN BLINDS



City Hall, Miami Beach, Fla. Equipped with Burlington Venetian Blinds

The Modern Equipment



For All Windows

See Sweets for Details.

BURLINGTON VENETIAN BLIND CO. 868 PINE STREET, BURLINGTON, VERMONT

### REED-POWERS CUT STONE CO., INC.

Cut Stone Contractors

and

Quarrymen

BEDFORD,

INDIANA

#### MORTAR COLORS



ECLIPSE MORTAR **COLORS** 

On the Market Forty-five Years

Also full line of Stucco and Cement Colors, and a superior grade of Red Oxide of Iron Paint.

> Write for Samples and Quotations.

Chattanooga Paint Co.,

Chattanooga, Tenn.

#### THE CARLYLE-LABOLD COMPANY

PORTSMOUTH, OHIO

Makers and Distributors

#### FACE BRICK

Smooth and Rough in:

Buffs, Greys, Tan and Brown Ironspots

#### OUARRY TILE

Beautiful Shades in:

Reds, Buffs, Browns, Ironspots and Greys

## BILCO METAL HATCHWAYS

For the Home

and Everything in ORNAMENTAL or MISCELLANEOUS IRON for the BUILDER

Railings, Stairs, Fire Escapes, Guards, Hangers, Rods, Bolts, Anchors, Gratings, Door Bucks, Corner Guards, Marquese, Etc., Structural Shapes, Raw or Fabricated

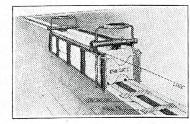
MAY WE SEND DESCRIPTIVE MATTER?

BUILDERS IRON CO., Inc. NEW HAVEN, CONN.



#### BUILD THE HOLLOW WALL WAY TWO WALLS FOR THE PRICE OF ONE

With a dead air between the m that gives perfect insulation at no extra cost. Our new molds are the result of many years of effort and we feel justified in saying they are the strongest, light est and the most easily operated m old on the market. The bw will build double or solid walls and or prices are the lowest.



THE UNIVERSAL CEMENT MOLD CO. NORTH MILWAUKEE, WIS.

#### GARBAGE DISPOSAL



"Solve your garbage and refuse disposal problem at initial plan-

#### SAN-A-TOR

Portable and Wall Type

Incinerators will satisfy all your demands. Our engineers and services are yours to command.

#### APARTMENT HOUSE **INCINERATORS**

Built in as a part of the chimney. Catalogue upon request

PITTSBURG INCINERATOR COMPANY

Mt. Washington P. O.

Pittsburgh, Pa.

## BLACKBOARDS

FOR ALL REQUIREMENTS

Duro Plate

Permaroc

Enduraroc

Cork Bulletin Boards

Write for samples, prices and complete information

E. W. A. ROWLES COMPANY

2345-51 SO. LA SALLE ST.

CHICAGO, ILL.



SOLVES THE HEATING PROBLEM

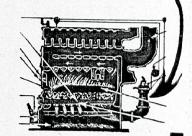
INTERNATIONAL FUEL SERVICE CORP. BRIDGEPORT, CONN.

With the only scientifically constructed Coal Burning Blower made

COPPUS BLOWER solves your heating problem in Homes, Dwellings, Office Buildings, Garages, Churches, Schools, Public Buildings, in fact wherever heat is wanted, A COPPUS BLOWER makes your heater modern. More heat per ton of coal, less waste, burns any grade of coal. Anyone can operate a COPPUS BLOWER.

C—omfort under control
O—ld grates used
M—ost any kind of anthracite
B—oiler efficiency raised
U—se less coal in most cases
S—upply more uniform heat
T—akes less time to get heat
I—nefficiencies and losses reduced
O—ld draft troubles eliminated
N—o sealing up of ash V

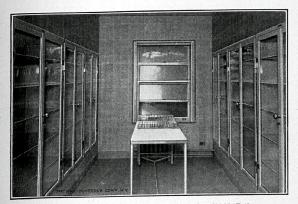
N-o sealing up of ash pit



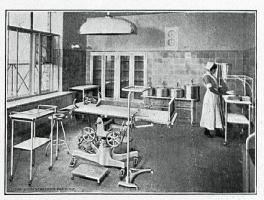
#### THE KNY-SCHEERER

Recessed Cabinets for Hospitals and Museums Represent the Last Word in Durability, Efficiency and Economy of Space.

38 years of experience are back of KNY-SCHEERER products. Permit our Engineering Department to assist you in your problems.



RECESSED CABINETS IN ST. FRANCIS HOSPITAL POUGHKEEPSIE, N. Y



RECESSED CABINETS IN OPERATING ROOM, WASHINGTON HOSPITAL, WASHINGTON .D C.



Catalogs and Specifications Gratis

#### The KNY-SCHEERER CORPORATION of AMERICA

10 to 14 West 25th Street, at Broadway, New York City, N. Y.

America's Largest Manufacturers of Hospital Equipment.

#### ROBERT S. NEWCOMB

CONSULTING ENGINEER

Member American Society of Mechanical Engineers

ATLANTA, GA.

Plans and Specifications for Mechanical and Electrical Equipment for Commercial and Industrial Buildings

#### CAPITAL ELECTRIC COMPANY

THE LIGHTING FIXTURE STUDIO OF

CARTER ELECTRIC COMPANY

7 AUBURN AVE.

ATLANTA, GA.

#### STRUCTURAL IRON WORKS

FOUNDRY AND MACHINE SHOPS

GRAINGER & CO., INC.

Tenth St.

Established 1833

Louisville Ky.

#### LUKE SEAWELI

Representing Manufacturers

144 SPRING ST., N.W., ATLANTA
HARDWARE and BUILDING SPECIALTIES, ORNAMENTAL BRONZE and TERRA COTTA 144 SPRING ST., N.W., ATLANTA, GA.

AREX & KERNCHEN—Siphonage Ventilators
CAMPBELL—Solid Metal Double Hung Windows
DAHLSTROM—Hollow Metal Doors, Elevator Enclosures
DURAND—Steel Locker, Bins, Racks and Shelving
GRANT—Elevator Door Hangers and Closers
JOHNSON—Steel Rolling Doors
TUEC—Stationary Vacuum Cleaners ECONO ECONOMY—Incinerators

HESS—Enameled Bath Room Cabinets
MILLS CO.—Metal Office. Toilet and Shower Partitions
Bronze and Furniture, Steel Covered Doors, Combination
Steel Bucks and Trim
RIXON—Hardware Specialties
NEW JERSEY—Architectural Terra Cotta
Incinerators
MILLER'S—School Wardrobes

Complete Information Furnished on Anything ELECTRICAL



Atlanta

LIGHTING FIXTURES

GENERAL ELECTRIC SUPPLY CORPORATION Savannah

#### THE FLAGLER COMPANY

ENGINEERS and BUILDERS

It requires quality and service, as well as price, to complete a project with satisfaction to all.

303-4-5-6 RED ROCK BLDG...

ATLANTA, GA.

Walnut 3648-3649

Corner Detail of 8" Du-Brik Wall

#### DU-BRIK

A hard burned clay unit which builds the most economical, fireproof, damp-proof wall for all types of buildings.

Size: 25/8"x8"x8"

CHEAPER THAN SOLID BRICK CHEAPER THAN BRICK VENEER

#### A. J. BOHN

SOLE DISTRIBUTOR

1006 CANDLER BLDG.

ATLANTA, GEORGIA

Manufactured in Smooth and Rough Texture Finishes Exclusively by

BIBB BRICK CO. MACON, GA.

#### CLARE & COMPANY

HEATING ENGINEERS & CONTRACTORS

354 MARIETTA STREET ATLANTA - GEORGIA Phone IVY 1303

#### Consulting Structural and Architectural Engineers

Members Amer. Soc. C. E, American Concrete Institute and Amer. Soc, for Testing Materials.

W. C. SPIKER & CO.

818 Forsyth Building Atlanta, Ga.

1421 Empire Building Birmingham, Ala.

#### T. BAKER

CONSULTING ENGINEER

CANDLER BUILDING

ATLANTA, GEORGIA

Plans and Specifications for Complete Ice and Refrigerating Plants, Electric Power Plants.



F. GRAHAM WILLIAMS BRICK

CAMBLER BUILDING. CO.

"BEAUTIFUL ANL PERMANENT MATERIALS" Artistic Face Brick Heinz Tiles Briar Hill Stone "Old Stonesfield" Slate

Ambastone, and Crab Orchard Stone Flagging

#### PHONE IVY 7470

#### THE CALORIC FURNACE CO. WARM AIR HEATING

325 Edgewood Ave.

Atlanta, Ga.

#### ATLANTA WEIR FURNACE CO.

397 Peachtree Street, N. E. Phone, Walnut 8975 ATLANTA, GEORGIA

HEATING & VENTILATION HEAT REGULATORS AIR WASHERS

#### WILLIAM C. PAULEY

LANDSCAPE ARCHITECT

762 Candler Annex

Phone Wal, 2261

Atlanta, Ga.

#### Just Being Introduced Into The South CONCRETE "FORM-HOLD" CORPORATION "A Form Held Tight, Means a Wall Built Right

J. S. McCABE Southeastern Representative

PHONE WALNUT

511 BONA ALLEN BLDG.

ATLANTA, GA.

#### DIXIE VENTILATING GRILLES



Steel or Brass

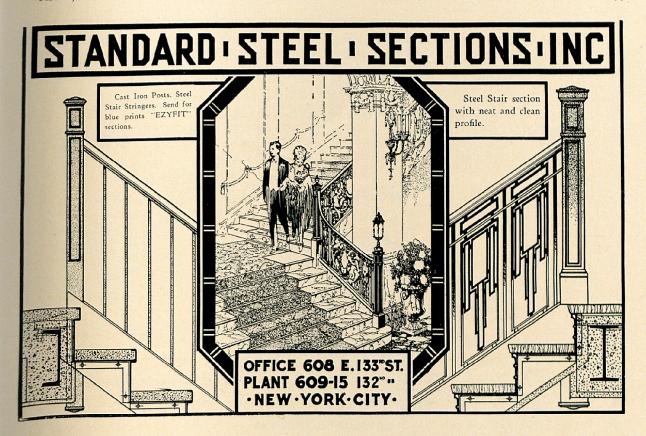
of South recently built or under construction. A standard grille, shipped from stock or manufactured to your requirements. Write for prices.

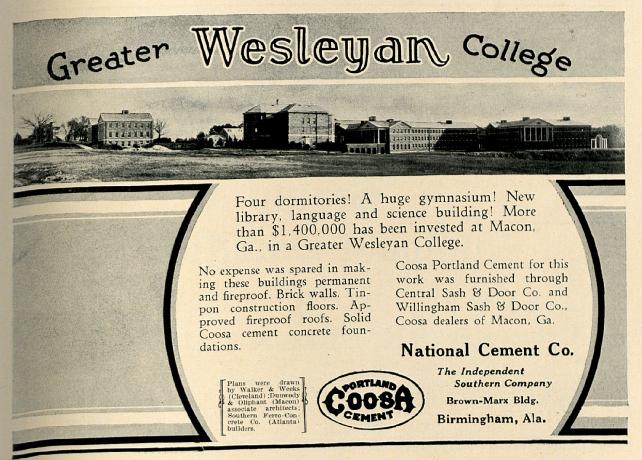
Specified on numbers of leading buildings

Thirty-six-hour delivery

Plant and office - 116-A W. Mitchell St., Atlanta, Ga.

STEINGRUBER METAL PRODUCTS WORKS





The Architect who demands that buildings designed by him present a fine appearance from the outside as well as clear vision from the inside will do well to use

#### BLACKFORD WINDOW GLASS COMPANY'S DIAMOND BRAND FLAT DRAWN SHEET GLASS

This glass presents to the eye a uniformly smooth and highly polished surface, and reflects images clearly when viewed from all angles and in all lights. None of the familiar broken surface of ordinary window glass. A comparison with other brands is invited.

#### SPECIFY BLACKFORD



# BLACKFORD WINDOW GLASS COMPANY VINCENNES, INDIANA

J. J. K. KELLEY General Sales Manager 451 McCormick Bldg., Chicago, Ill. SOUTHERN REPRESENTATIVE B. FRANK WILLIAMS Aberdeen, Miss.

FACTORY AND GENERAL OFFICES VINCENNES, INDIANA

# STARK SALT GLAZED BRICK

for INTERIOR WALLS

# Beauty without Sacrifice

## THE STARK BRICK COMPANY

Members of

A·F·B·A

USE FACE BRICK

—it Pays

Manufacturers of
STARK SALT GLAZED BRICK
CANTON, OHIO

May We Send Sample?



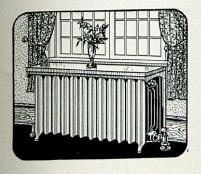
# ENGLISH DOORWAYS



now so good. The modern trend in architecture is a reversion to the Old English and Early American. Most adaptable to these types is the rugged sand molded brick of old Colony days.

Their exact replica is found in the Wyandot, made by

The Wyandot Clay Products Company UPPER SANDUSKY, OHIO



#### ARCHITECTS SPECIFY---

Interior Decorators and Steam Heating Contractors BUY

#### WINCHESTER RADIATOR CABINETS

Winchester Radiator Cabinets are strictly "made to measure" and are constructed to fit each particular radiator situation. Highest quality, heavy furniture steel is used, and all joints are welded to insure a maximum of strength and durability. The enamel finish is baked on, and may be had in flat colors, tints, stiples, wood grains and imitation marble.

Important, too, is the feature which allows ample circulating space for the air currents passing through the cabinets and into the room. This is of two-fold benefit, for it expedites evaporation, as well as reduces heat loss to a minimum.

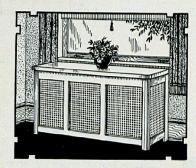
Bare radiators are rapidly going out of date. In apartment buildings, offices, banks, clubs, hotels, hospitals and particularly in homes, you will now find them concealed by a Winchester Cabinet. Here are just a few of the many reasons why this is true—They save frequent cleaning of drapes and curtains: save fuel by correctly humidifying the air; reduce the amount of dust in the air, and prevent smudging of walls and ceilings; they prolong the life of furniture; make window seats or consoles of the uncovered radiators, and so improve the appearance of the room.

Write for Complete Information and Recommend Winchester Cabinets to Your Clients

#### Winchester Radiator Cabinet Co.

551-557 WEST MONROE STREET

ILLINOIS



Make All Rooms More Livable with this Attractive Cabinet

CHICAGO



No. 1936-Ceiling Fixture

No. 1935-Wall Bracket

# MODERN ART in

Lighting Fixtures has permanently caught the popular fancy. Kaylite's Modernistic Line is not only Modern but beautiful as well, and consequently is enjoying a steady public acceptance. Manufactured to sell at attractively reasonable prices, profit possibilities for the dealer are large—and the turnover is rapid. An especially desirable feature of the numbers illustrated consists of the Removable Beveled "Modernistic" Glass Panels. A new catalog of "Kaylite Modernistic" is now on the press. Make sure of getting your copy by writing us today.



# Loomis-Manning Water Filters

COLD WATER SUPPLIES
HOT WATER SUPPLIES

Water Filters Guaranteed to furnish bright, sparkling, filtered water, free from matter in suspension, color, turbidity and stain, iron sediment and iron stain, odor and taste, from city water supply, river water, pond water, lake water, artesian and other well waters.

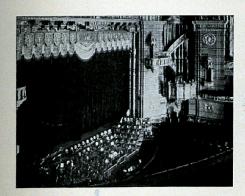
SEND FOR BOOKLETS

Plans and Specifications
Furnished Architects
and Engineers

Loomis-Manning Filter Dist. Co.

Main Office and Factory 1421-1455 S. 37TH STREET PHILADELPHIA, PA.

New York Office
ARCHITECTS BUILDING
101 PARK AVENUE
NEW YORK CITY



ROXY THEATRE, NEW YORK ORCHESTRA, CONSOLE ELEVATORS AND COUNTERWEIGHT SYSTEM

#### Some of Our Southern Installations

Olympia Theatre	Miami, Fla.
Carolina Theatre	Greenville, S. C.
Texas Theatre	San Antonio, Tex.
Metropolitan Theatre	Houston, Tex.
Worth Theatre	Ft. Worth, Tex.
Dallas Theatre	Dallas, Tex.
Coral Gables Theatre	Coral Gables, Fla.
Coral Gables Coliseum	Coral Gables, Fla.
Saenger Theatre	New Orleans, La.
Miami Beach Garden	Miami, Fla.
Midland Theatre	Kansas City, Mo.
Missouri Theatre	St. Joseph, Mo.
Rialto Theatre	Omaha, Neb.
Riviera Theatre	Omaha, Neb.
Alabama Theatre	Birmingham, Ala.
Capitol Theatre	Atlanta, Ga.
Palace Theatre	Atlanta, Ga.
Carolina Theatre	Charlotte, N. C.
Carolina Theatre	Greensboro, N. C.
Florida Theatre	Jacksonville, Fla.
Jefferson Theatre	Beaumont, Tex.
Loew's Theatre	Houston, Tex.



ORCHESTRA and CONSOLE ELEVATORS
ASBESTOS and STEEL CURTAINS
COUNTERWEIGHT SYSTEMS
DRAW CURTAIN TRACKS
MECHANICAL EFFECTS

#### Peter Clark, Inc.

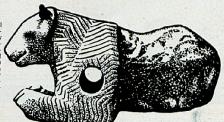
534-50 W. 30th Street New York City

# Positive and Permanent Below Grade Water-proofing at a 50% Saving!

Here in a nut-shell is one of the important industrial achievements of recent developments in Colloidal Chemistry.

Through a new and patented colloidal process Asphalt is "filled"—and thereby rendered non-porous to a degree far exceeding the best ever attained in the past by mechanical filling methods—making it nearly identical in all of its properties with the asphaltum of ancient Egypt.

Primitive animal carved from Asphalt probably 5000 years ago showing the indestructibility of ancient Egyptian Asphalt — which had substantially the same properties as Asbest-O-Phalt.



# ASBEST-O-PHALT

# The New Colloidal-Filled Asphalt

The Asbest-O-Phalt Process of Water-proofing is founded on this important discovery. It provides a non-porosity and permanence heretofore secured by only the most elaborate and costly methods. It can be applied with equal ease and economy to all water-proofing jobs—above grade, below grade or even underwater construction. Asbest-O-Phalt is not only a marvelously efficient water-proofing agent, but its permanence is insured by the fact that it is positively impervious to acids, gases or alkalies.

# Expert Engineering Advice on All Water-Proofing Problems

Our engineering staff—specialists in water-proofing—are at your service. Your request for their advice does not imply any obligation to purchase our service or materials. Your inquiries are invited.

National Asbest-O-Phalt Corporation Dept. 15-77 Builders Building—CHICAGO

Eastern Asbest-O-Phalt Sales Corp.
47 West 34th Street—NEW YORK



# HERE ARE the FACTS ABOUT the JOHNSTON OIL-BURNER BOILER



The new Johnston Catalog containing complete information concerning the Johnston Oil-Burner Boiler is just off the press. It contains a test chart which shows the Johnston Boiler is 85% efficient at 100% boiler rating.

The new catalog furnishes convincing evidence that the Johnston Oil-Burner Boiler will cut your clients oil fuel costs from 25% to 50%.

Have your secretary write today asking for a copy of this book for your files.

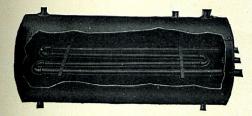
JOHNSTON BROTHERS, Inc.

Ferrysburg, Michigan

You Will Remember -

#### »ARROW >

Unconditionally Guaranteed TANKS by their SERVICE



Riveted and Welded Black or Galvanized

Hot Water Storage Tanks Hydro Pneumatic Tanks Oil Storage Tanks Air Receivers

Write for Prices

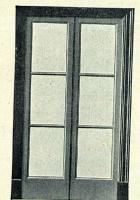
The Novelty Steam Boiler Works Co.

Factory: Clare & Kloman Sts.

Baltimore, Md.

# **ELEVATOR FRONTS**

FOR PASSENGER SERVICE



One of many designs

#### COMPLETE

with Sills, Struts, Jambs, Trim, Doors, hollow metal No. 14 gauge, Glass, Hardware, Baked Finish. Erected in Place

#### ELEVATOR CABS

of Wood and Steel. Substantially built by Master Craftsmen of the Furniture Capital.

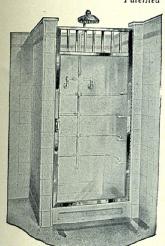
Send your plans or elevator layouts for estimates of elevator fronts. If desired designs and details or alternate proposals will be prepared.

# HAVEN-BUSCH CO.

503-519 FRONT AVE.

GRAND RAPIDS, MICH.

#### REINHARDT SHOWER DOOR

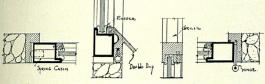


Stiles made in one piece of 16 B & Sga. brass or nickel silver.

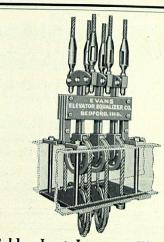
No wood cores or metal that will deteriorate.

Hollow construc-

Prices and detail blue print on request.



EDWIN G. REINHARDT MFG. CO. 110-112 EAST SECOND ST., CINCINNATI, O.



# Cables Last Longer—Elevators Ride Better and Safer with Evans Elevator Equalizer

The Evans Elevator Cable Equalizer not only makes cable wear 40 to 100 per cent longer, but also makes for moother operation—no shaking or jerking of passengers. It saves you money in cost of repairs and loss of service. Increases the safety factor 50 per cent. As its name implies, the Evans Equalizer equalizes the load of an elevator on all its cables instead of just one or two cables doing all the work. Prominent building owners and managers endorse the Evans Elevator Cable Equalizer. Write for descriptive booklet

Evans Elevator Equalizer Co.

Bedford, Indiana



GOLD
INDEXED
BLACK
CHINA
HANDLES
AND
SOAP DISH

# "NONGO" "De Luxe" Faucet

For those who demand something unusually attractive, this chromium-plated faucet will satisfy the desire of the most critical.

#### N. O. NELSON MANUFACTURING CO. MAIN OFFICE: ST. LOUIS, MISSOURI

Factories: Edwardsville, Ill.; Noblesville, Ind.; Bessemer, Ala.

#### BRANCHES:

Birmingham, Ala. Memphis, Tenn. Davenport, Iowa Pueblo, Colo. Wichita Falls, Tex. Dallas, Tex. Houston, Tex. Little Rock, Ark.

Jackson, Miss, Joplin, Mo. Pocatello, Idaho Salt Lake City, Utah

1872--Pioneer Manufacturers of Plumbing Fixtures--1929

The New

IRVIN COBB HOTEL

of which Paducah, Ky., can justly be proud, is one of the recent installations of

#### WEIL NON-CLOG SEWAGE EJECTORS



IRVIN COBB HOTEL W. W. Ahlschlager, Inc., Arch.

Weil NON-CLOGS are dependable under all conditions, and are being installed in many of the country's most notable buildings as the last word in sewage pumps.

Send for free catalogue which includes Bulletin C-900 describing Non-Clogs.

Bilge—Sewage—Fire—House— Circulating—Boiler Feed— Condensation—Vacuum

#### WEIL PUMP COMPANY

215 W. SUPERIOR ST., CHICAGO



### ROMANY QUARRY TILES

Red, Grey, Brown and Rainbow

For Porches, Terraces, Corridors, Kitchens, Laundries, Hospitals, Power Houses, Waiting Rooms, Etc.

Ask for Illustrated Catalog No. 8 and Art Portfolio

Ask for Illustrated Catalog No. 8 and Art Portfollo UNITED STATES QUARRY TILE CO. PARKERSBURG, W. VA.

#### Atlanta Terra Cotta Company

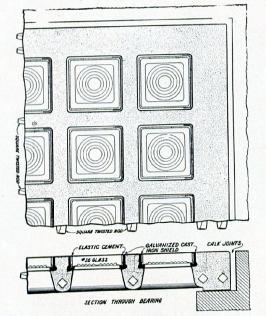
Manufacturers of

ATLANTA ARCHITECTURAL TERRA COTTA

1002 GLENN BUILDING

Factory at EAST POINT, Georgia

#### SIDEWALK LIGHTS



No. 35 GLASSIN GALVANIZED CAST IRON SHIELDS

#### RICHARDS & KELLY MFG. CO.

MANUFACTURERS

Sidewalk Lights—Sidewalk Doors—Coal Hole Covers
Princeton Ave. & 23rd St. - CHICAGO, ILL.

# ECONOMY **INCINERATOR**



Built at the base of the chimney

The ECONOMY INCINERA-TOR is most widely preferred because there is no fuel cost to operate it. and because there is no deterioration, replacement or maintenance expense whatsoever. The most economical and efficient incinerator on the market.

> New Design Hopper Door Eliminates Odor Smoke, Flames, Soot

The specially designed hopper door equipped with an auxiliary safety door which is an exclusive feature of the Economy Incinerator and positively prevents the entrance of odor, smoke and soot into the room: guaranteeing total cleanliness and complete riddance of garbage and refuse, once deposited into the Economy hopper door.

omy hopper door. Send now for completely illustrated, descriptive Economy Incinerator literature: Address

ECONOMY INCINERATOR CO., INC.

287 FARWELL AVE. MILWAUKEE, WISCONSIN

Dealers write for proposition 

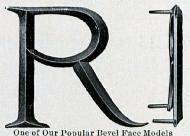
#### BRONZE LETTERS

#### SETTING ON BUILDINGS

We have a large variety of stock patterns from one to twenty inches in height (some of them designed by the Leading Architects of the Country), from which we cast

Send us specifications and we will submit detail and

Full size templates and instructions for setting furnished for all our work



Blue print of our stock patterns sent on request.

TABLETS IN BRONZE BRASS, ETC.

#### THE FORMAN COMPANY

(Incorporated 1905)

48 West Broadway

VEW YORK, N. Y.

# THE CUTLER MAIL CHUTE

In its perfected form is the outcome of long experience, and is designed to meet the requirements of public use under Postoffice Regulation. It is simple and substantial in design and construction, durable in finish, and has an Architectural quality which is appreciated and much commended by Architects.

> Full information, details, and specifications on request.

THE CUTLER MAIL CHUTE CO.

GENERAL OFFICES AND FACTORY ROCHESTER, N.Y.

Kerlow is all steel and cannot crack nor disintegrate like concrete floors; Kerlow cannot wear smooth nor slippery like wood, or plate floors, and Kerlow floors need not be swept. Drop us a line and we will be glad to tell you about our many installations.

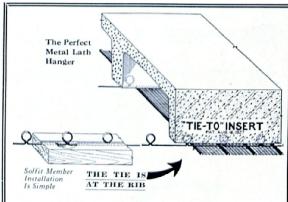


DISTRICT REPRESENTATIVES:

O. Z. Wrenn & Co., 201 Kinney Bldg. Charlotte, N. C. J. W. Vaughn, Jr.,

408 Masonic Temple Bldg., Greenvile, S. C. George Dowman, 419 Rhodes Bldg. Atlanta, Ga. C. S. Caldwell, 2011 Third Ave. Birmingham, Ala.

KERLOW STEEL FLOORING CO. JERSEY CITY, N. J.



#### Saves 25 to 40c per sq. yd. of Metal Lath Hung

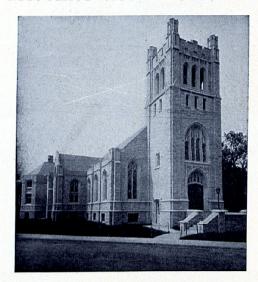
THAT'S what you get by using "TIE-TO" INSERTS: a saving of 25c to 40c per square yard-eliminating hang wires and channel rods, and the annoying detail of tying metal lath to concrete. At the same time you improve your construction: a better job, less labor, more profit. Send now for fully descriptive "TIE-TO" IN-SERT Literature.

TIE-TO" 874 Layton

Milwaukee, Wis.

INSERT CO.

#### MT. AIRY WHITE GRANITE



That happily blended aspect of quiet dignity and warm color tone so characteristic of Mount Airy Granite is charmingly reflected in this handsome church building.

Mount Airy Granite may be adapted to residence architecture with equally as pleasing results, especially is it effective in English and Georgian Work.

LITERATURE GLADLY SENT UPON REQUEST

NORTH CAROLINA GRANITE CORPN. MT. AIRY, N. C.

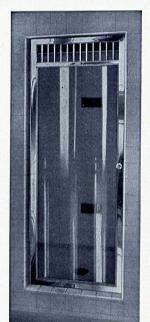


Window Lock permits ventilation yet absolutely prevents intrusion. Easily attached. A postcard brings full information.

E. B. WHITAKER COMPANY 15-19 West 39th St., New York

Manufacturers of Welworth Window Ventilators, Dust Screens and Looks

WINDOW LOCKS



T is only natural that you should specify C & S Shower Stall Doors.

They are unequaled in beauty of design, in soundness of construction, and in performance. In addition, they are waterproof.



NONPAREIL MODEL Patented

You will want a copy of our new catalogue

Crist & Schilken Company, Inc. 500-508 37th Street, Pittsburgh, Pa.



#### Pro. Jex. Wall

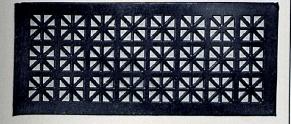
Steel Baseboard
Registers
for Residence
Heating
have Patented
Exclusive
Features

#### The AUER REGISTER CO.

Cleveland, Ohio.

Fabricates all types of floor, wall, and ceiling Heating and Ventilating Registers, also Wrought Metal Grilles in Steel. Brass and Bronze, any size, many designs, and standard finishes.

Dixieland inquiries invited





DAYTON

THE DAYTON FIRE DOOR CO.

Announces the Appointment

OF

MR. STRAFFORD R. HEWITT 610 WALTON BLDG. ATLANTA, GA.

AS

FACTORY REPRESENTATIVE IN THE ATLANTA DISTRICT

Mr. Hewitt's Office is Now Equipped to Furnish You With Quotations

ON

KALAMEIN AND TIN CLAD DOORS

ELEVATOR ENCLOSURES

AND

SMOKE SCREENS UNDERWRITERS LABEL

THE DAYTON FIRE DOOR CO. DAYTON, OHIO

ATLANTA



#### **BRONZE SASH CHAINS**

MADE IN

"RED METAL" ::

SOLID

"GIANT METAL"

PHOSPHOR BRONZE

ALSC

## STEEL SASH CHAINS

Smith & Egge Sash Chains will be found in practically all of the prominent buildings of the South

Send for Sash Chain Catalog A-1

#### THE SMITH & EGGE MFG. CO.

BRIDGEPORT, CONN.

ORIGINATORS of SASH CHAINS



# Vor Satisfactory Wood Floors laid over concrete Holds your sleepers securely over

Holds your sleepers securely over concrete—saves fill cost, dead load, avoids sleeper and floor dry rot. Speeds construction. Both regular and junior size Bull Dog Clips are made in all sizes. Millions now in use—"Put the Bull Dog on your pay roll."

The Bull Dog Floor Clip Co. 108 North 1st Ave., Winterset, Iowa 15 warehouse stocks 135 distributors



Friction tight nails furnished gratis

#### A New Bathroom Appointment of Noteworthy Distinction



THE LUX-O-LITE Mirror is a wonderful new convenience for the up-to-date bathroom and boudoir. It effectively focuses soft, diffused light on the face of the user, yet without unpleasant glare. Furnished in various suitable finishes. Complete descriptive literature on request. Distributed by Bull Dog Floor Clip Company, 108 North First Avenue, Winterset, Iowa.

#### SPANISH LANTERNS

"Faroles"



In tin, copper or brass, with plain, cathedral or colored glass. Also wall and ceiling lights, majority reproductions of antique originals, 142 models. Jobbers, architects and interior decorators gladly supplied with illustrated catalogue.

Wrought iron lamps and torcheres made true to Spanish traditions by Spanish craftsmen.

Furniture, pottery, tiles and everything else produced in Spain for furnishing and decorating. Send for booklet.

INDUSTRIAS DE ARTE ESPANOL REUNIDAS
MADRID SPAIN

American Associates

MANUEL CARAGOL & SON, INC.

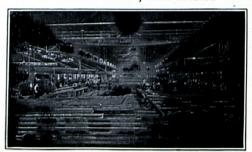
Established 1903

340 EAST 44TH STREET

NEW YORK CITY

# INTERNATIONAL STEEL & IRON CO.

ADDRESS DEPT 14
EVANSVILLE, INDIANA



INTERIOR VIEW OF OUR STRUCTURAL STEEL PLANT

The GREAT AND CERTAIN STRENGTH of a sturdy frame of steel is a guarantee of permanence in any type of building

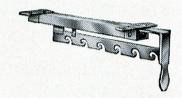
LARGE STOCK OF BETHLEHEM AND STANDARD SHAPES

INTERESTING PRICES :: PROMPT DELIVERIES

CALL ON US FOR SERVICE

STRUCTURAL STEEL AND IRON, MODERN STORE
FRONTS, GARAGES, FACTORIES, WAREHOUSES,
COAL TIPPLES, HIGHWAY BRIDGES, STEEL
LUMBER, REINFORGING, STEEL WINDOWS,
STEEL CEILINGS, ROOF VENTILATORS,
CORNICES, ELEVATORS, SKYLIGHTS,
ROOFING AND SIDING, MILLWORK AND GLASS

# RITE-WAY GARMENT-FIXTURE



To Sell Homes!

Give HOMEBUYERS APARTMENT CONVEN-IENCES and INCREASED CLOSET SPACE

For details write

#### MILWAUKEE STAMPING CO.

Department 5

WEST ALLIS, MILWAUKEE, WIS.

## Radiant Type Wall Heater

The modern bathroom is not completely equipped without a

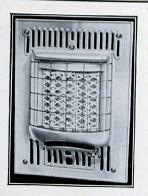
GAS WALL HEATER

Due to the large demand we are having for Colored Bathroom Heaters. we are now furnishing our GLOWFIRE No. 5 Radiant Type Wall Heater in Orchid, White, Red, Yellow, Blue, Sea Green, Tan and Black.

WRITE FOR PRICES

Manufactured by

GAS APPLIANCE DIVISION, THE TROLLEY SUPPLY CO. MASSILLON, OHIO



#### How about the Brass Fittings in that new building? By Specifying ACHESON BRASS FITTINGS

Here's what you get:

- All perfect fittings determined by rigid test.
   All made of Red Metal—the finest quality.
   All of full weight, carefully machined and attractively designed.
   Will readily pass inspection and eliminate costly replacements.

5. They are no more expensive than those of inferior quality.

Carried in Stock

by Southern Jobbers



#### In 1950

Will 90% of the plumbing fixtures you specify be functioning perfectly? That is the record at Port Arthur after nearly a quarter century of service.

#### The JEWEL FLUSH VALVE

TAMINA — Staying Power — the ability to stand up and function perfectly after long years of hard, rough, careless usage. That's the quality of Jewel Flush Valves that recommends them for school installation.

Every time the Jewel is used, a powerful, scouring flush of Water under Pressure thoroughly cleanses where they belong.

The Bowlus Mfg. Company

Springfield,

Ohio

PORT ARTHUR INDEPENDENT SCHOOL DISTRICT

Port Arthur, Texas November 6, 1928

The Bowlus Mfg. Co., Springfield, Ohio. Gentlemen:

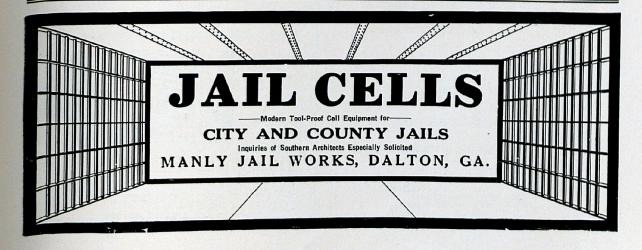
Replying to your letter of Octo-

We have a number of the Bowlus Jewel Automatic Water Closets in one of cur schools that was erected in 1906. Two or three of these had to be replaced last year due to herekage. breakage.

We consider that these appli-ances have given excellent service. Yours very truly,

LBA:MLS

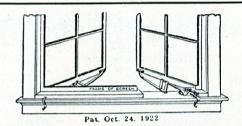
L. B. ABBEY. Sec. Pur. Agent.



#### SOUTHERN CUT STONE CO.

BOWLING GREEN, KY.

We specialize in Bowling Green, Ky., stone. In considering an attractive Building Stone write for samples.



#### EVERLOCK CASEMENT SASH ADJUSTER

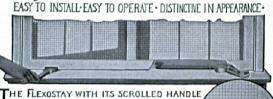
For any outswinging sash, in any building, old or new, operated from the inside without disturbing the screen. Securely locked at all times. Manufactured by

W. E. PUTNAM COMPANY, INC.

667 W. BOYLSTON ST.

WORCESTER, MASS.

#### FlexostáýÁdjuster Opens closes and Locks the Casement through the screen in one continuous movement



IS AS WELL MADE AS IT IS GOOD LOOKING, EM-BODIED IN ITS DESIGN ARE EXCLUSIVE FEATURES WHICH INSURE FREEDOM FROM RATTLES AND LONG YEARS OF STEADY RELIABLE SERVICE.

UNITED SPECIALTIES MFG CO. RICHMOND HILL. NEW YORK CITY. Makers of casement hardware since 1910.



#### SANITARY BRICK

The "Sparta" is acknowledged and admitted to be the most perfect and most satisfactory glazed brick on the market. Uniform in size, never craze or chip off. Permanent in color and finish. "Sparta" Brick are also made in lemo, orange, old gold, and many other shades, both glazed and unglazed.

The most profitable line on the market for live agents to handle. High-class goods with character in them that build high-class reputation for dealers.

We Have Open Territory-Write Us

#### The Federal Clay Products Co.

Palace Block, Mineral City, Ohio

We make mixed Carload Shipments

MANUFACTURERS OF

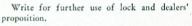
Building Brick, Face Brick, High-Grade Fire Brick, Ground and Crude Fire Clay, Salt Glazed Brick of the Finest Quality

#### Modernize Screen Installation



"WITH THIS LOCK" full size screens are installed and removed from the inside on all stories of a building. It is easily applied and gives protection. Time is saved on the installations of screens in a season change. Also eliminates the cost of sliding devices.

Patented in U. S. and Canada



#### Herman Bleck

Inventor - Manufacturer 415 EATON STREET, HAMMOND, IND.

#### CALDWELL SASH BALANCES



Permit frames to be mortised at the mill to one size

Box frames unnecessary, hence for remodeling old windows are indispensable. Counter-balances sashes perfectly. Thirty-six years' satisfactory service is your assurance of quality.

Write for Booklet-

"Suggestions for the Present Day Architect"

CALDWELL MFG. COMPANY

39 JONES ST.

ROCHESTER, N. Y.

#### WM. H. JAMES & CO.

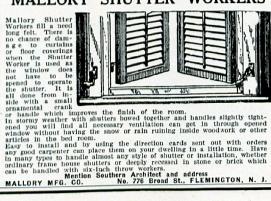
Certified Public Accountants

COST AND INDUSTRIAL ENGINEERS

Candler Bldg.

Atlanta, Ga.

#### MALLORY



#### Here is a Glazing Composition that will-

Adhere tightly to iron, steel, wood, glass, stone or concrete, Make an elastic joint—tight yet indefinitely flexible, preventing glass from cracking.

Guaranteed to withstand heat, cold, rain or extreme climatic conditions, without chipping

#### KUHL'S ELASTIC GLAZING COMPOSITIONS

is used for bedding and glazing all classes of glass con-struction and is unequalled for greenhouses. Also sup-plied in shades to match for pointing up stone work, terra cotta, granite, etc.

Complete literature on this exceptional product together with testimonials from such prominent architects as Cass Gilbert, also the Lackawanna and Pennsylvania Railroad, will be mailed on request.

There is a reliable dealer in your locality selling Kuhl's Elastic Glazing Composition. His name will be sent on



#### H. B. FRED KUHLS

Sole Manufacturer

6413 THIRD AVE. BROOKLYN, N.Y.

#### THE AMBLUCO NON-SLIP BLUE STONE STAIR TREADS and LANDINGS

Contain combined in one product all the most essential tread qualities-

NON-SLIP DURABLE FIRE-RESISTING SANITARY QUIET ATTRACTIVE **ECONOMICAL** 



Ambluco Stair Treads installed in Public Latin School, Boston. McLaughlin and Burr, Archi-tects: Geo. A. Fuller Co., Contractors.

Ambulco Non-Slip Treads and Landings have been used in Boston schools for over twenty years.



#### AMERICAN BLUE STONE CO.

CONSULTING and SALES OFFICE 101 PARK AVE.

NEW YORK

SHALE ROUGH TEXTURE 83 SMOOTH FACE BRICK



HOLLOW TILE छ

#### COMMON BRICK

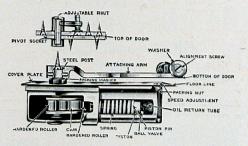
The architect who writes into his specifications the name RICHTEX can rest assured that he is giving his client Burned Clay Products of extra fine quality

You should have a few samples in your office May we ship them today?

RICHLAND SHALE PRODUCTS COMPANY COLUMBIA, SOUTH CAROLINA



## Risk a Test When U Know Shelby Line Is the Best?



The "Shelby Line" has eighteen styles capable of meeting the requirements of any occasion where a Checking Floor Hinge, Single or Double Acting, is needed. This insures quietly operated and fully controlled

Simple construction: all mechanism constantly working in non-freezing liquid beneath the floor: closing speed of door regulated by a needle valve which can be adjusted while the doors are in place are just a few of the features. Perfect alignment can be obtained on the Double Acting (illustrated) by merely loosening the screw on one side of the door and tightening on the opposite.

For a complete description of styles and operation of our line, write for our No. 28 Catalog—special for architects.

SHELBY SPRING HINGE CO. SHELBY, OHIO



#### ARCHITECTURAL BRONZE

BANKS BUILDINGS MAUSOLEUMS RESIDENCES

J. S HEATH COMPANY

WAUKEGAN, ILL

#### OXBLOOD QUARRY TILES

Beautiful in Color

Harder than Steel

Really 1" Thick

Sizes: 6x6, 4x4, 9x9, 6x9

Three Shades

DARK RED, DEEP RED, BRIGHT RED

Three Qualities

CHOICEST, COMPETITIVE, SECONDS

Write for Illustrated, Indexed Folder

KUSHEQUA KERAMIC CO.

KUSHEOUA PENNSYLVANIA

ELISHA K. KANE, LESSEE, KUSHEQUA, PA.

THE SUPERIOR QUALITIES

# PITTSBURGH CAULKING

HAVE BEEN DEMONSTRATED IN THOUSANDS OF INSTALLATIONS WHY EXPERIMENT

PITTSBURGH CAULKING COMPANY PITTSBURGH, PA. FULTON BLDG.

ABSOLUTELY STORM PROOF

The Construction of

#### ROYAL

Double Cone VENTILATORS

is such that a constant Strong Upward movement of air is main-

tained. Study the scientific design of the ROYAL. No parts to get out of order or require attention. It ventilates from the ground up.

DEPENDABLE—DURABLE—WEATHER PROOF

Catalog on request

Royal Ventilator Company, 415 Locust Street

Cream, Yellow, Gray and Pink Buff

MANKATO STONE

For Exterior and Interior Use

BOTH TRAVERTINE and FINE TEXTURE STONE

Something Different

T. R. Coughlan Company

Quarrymen

Mankato

Minnesota

#### Bedford Cut Stone Co.

Bedford, Indiana

Producers of the Very Best In

#### INDIANA LIMESTONE

WELL SELECTED STONE

HIGH CLASS WORKMANSHIP

PROMPT SERVICE

Southeastern Representative

F. GRAHAM WILLIAMS BRICK CO., CANDLER BLDG., ATLANTA, GA.



## Steel Tanks and Towers

For Water Supply and Fire Protection ANY SIZE ERECTED ANYWHERE

Manufacturers of BOILERS and ENGINES

R. D. COLE MFG. CO. NEWNAN, GEORGIA Established 1854

#### BRIAR HILL SANDSTONE

is a beautiful, warm toned, and reasonably priced build-ing material available in either plain buff or variegated colors ranging from light gray, buff and pink, to dark chocolate and purple shades.

It is marked, banded and mottled with contrasting yet harmonious colors as permanent as the stone itself, making a wonderful medium for the Architect who strives for a color effect.

Write us for samples or further information

#### The Briar Hill Stone Company GLENMONT, OHIO

SEE OUR CATALOGUE IN SWEET'S

Southeastern Representative
F. GRAHAM WILLIAMS BRICK CO., CANDLER BLDG., ATLANTA, GA.

of gn

wa

oou

ev

re

hite

ftl

mpl

are

B

hro

r.

H

mo

sr

ulle



#### OUTDOOR LIGHTING FIXTURES

"Cast-Iron and Bronze"-

A Herwig Fixture for Every Outdoor Purpose Send for Catalog No. 25-200 Illustrations

#### THE HERWIG COMPANY

Manufacturers—Established 1908

Chicago, Ill., U. S. A. 1753-59 Sedgwich St.

Warehouses Residences Country Clubs



SPECIFY-

#### HERWIG OUTDOOR LIGHTING FIXTURES

See our adv. in Sweet's Catalog, or ask your dealer for any information you wish on our fixtures. They will be glad to co-operate with you. Or write us direct.

CONTROL THE SPEED OF YOUR VENTILATING EQUIPMENT! REGULATE WARM AND COLD AIR VOLUME WITH THE TIME TESTED

HORTON

VARIABLE SPEED

PULLEY

HORTON MANUFACTURING COMPANY

3008-3016 University Avenue S.E. Minneapolis, Minn.

MINNEAPOLIS REFERENCES

Vroman Cook Co. sh Co. Richardson-Boynton Co. Vrc American Foundry & Furnace Co., St. Paul

BIRMINGHAM

THE J. L. HOFFMAN COMPANY

INCORPORATED

Landscape Architects

CANDLER ANNEX

ATLANTA, GEORGIA

Contractors' and Building Castings, Machinery and Material, Steel Beams, Girders, House Front Columns, Lintels and Plates, Engines, Hoisting Rigs, Rope and Chain Blocks, Wire Rope, Boilers for Heating Buildings, Window Weights, etc.

Lombard Foundry, Machine and Boiler Works and Supply Store

Capacity for 300 hands

Augusta, Ga.

#### DUNLAP and COMPANY

Established 1895

General Agents—Casualty Insurance & Surety Bonds—Real Estate Financing

Georgia Atlanta, Candler Building

#### WAGAR & COMPANY

General Contractors

414-16 Norris Bldg.

Atlanta, Ga.



#### Woodstock Slag Corporation

SOUTHERN RAILWAY BUILDING

BIRMINGHAM

ALABAMA

Personal Service Given Each Order.

# BIRMINGHAM PAINT & GLASS CO.

JOBBERS & MANUFACTURERS

2021 Fourth Avenue

BIRMINGHAM

ALABAMA

#### DODGE, DANIELS & SHOOK

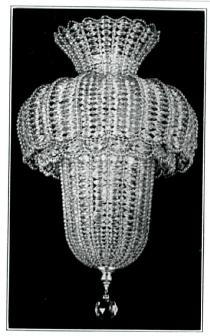
A CORPORATION

Guild Set Tiles

TILE CONTRACTORS

3023 6TH AVE., SOUTH

BIRMINGHAM, ALA.

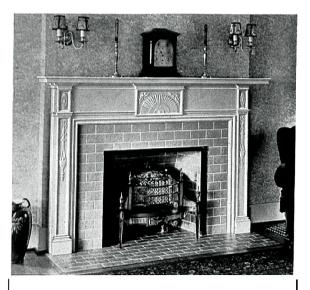


Cut Crystal Chandeliers are coming into popularity again, not only for the decoration of Palatial Mansions, but for use in Show Windows, Hotels, Theatres, Halls and Apartments

#### J. J. WYLE & BROS., Inc.

18-20 W. 27th St., New York

Importers and Manufacturers Cut Crystal Chandeliers



# PERIOD MANTELPIECES OF WOOD!

Varied and Beautiful are the many designs which compose the "COLUMBIA" line of mantels, made by master craftsman.

Sold only thru our established agencies

Columbia Mantel Co., Inc. LOUISVILLE, KY.





m vat ur

te the

> on siz siz N let

## SPECIFICATION AND BUYERS' INDEX

See Alphabetical Index Page 98

	현실 발생님들은 얼마나 가는 사람들이 살아 있다.
A	ELEVATOR DOORS, ETC. Evans Elevator Equalizer Co., Bedford, Ind
AISLE LIGHTS Kausalite Mfg. Co., Chicago, Ill	Haven-Busch Co., Grand Rapids, Mich.         83           Peelle Company, Brooklyn, N. Y.         21           Luke Saewell, Atlanta, Ga.         76           United Metal Products Co., Canton, Obio         70
ADT DDON'7E	Luke Saewell, Atlanta, Ga
J. S. Heath Co. Waukegan. Ill. 92  Edw. G. Reinhardt Mfg. Co., Cincinnati, Ohio. 83	ENGINEERS and BUILDERS
B	C. T. Baker, Atlanta, Ga
BALANCES—Sash, etc.	The Flagler Co., Atlanta, Ga
Caldwell Mfg. Co., Rochester N. Y	F
BANK FIXTURES Edw. G. Reinhardt Mfg. Co., Cincinnati, Ohio	FLOORING—Hardwood
TIP COLL POLLIDATINT Cabinate atc	Arkansas Oak Flooring Co., Pine Bluff, Ark
J. P. Eustic Mfg. Co., Boston, Mass. 23 The Ideal Cabinet Co., Detroit, Mich. 34	E. L. Bruce Co., Memphis, Tenn. 13 *Cellized Oak Flooring, Inc., Memphis, Tenn. 13 The Long-Bell Lumber Co., Kansas City, Mo. 13
BLACKBOARDS Conklin-Armstrong Co., Philadelphia, Pa., 30 Conklin-Armstrong Co., Chicago, III. 74	Maple Flooring Mfg. Assn., Chicago, III
Conklin-Armstrong Co., Phi.adelphia, Pat	Maple Flooring Mfg. Assn., Chicago, III
K-M Supply Co., Kansas City, Mo	
Conklin-Armstrong Co., Philadelphia, Pa	FLOORING—Steel Kerlow Steel Flooring Co., Jersey City, N. J
BLINDS—Venetian Burlington Venetian Blind Co., Burlington Vt	G
POULTERS AND TANKS-Hot Water, etc.	GLAZING COMPOSITIONS
Lombard Foundry, Machinery, Boller Works of Supply	H. B. Fred Kuhls, Brooklyn, N. Y
Augusta, Ga. Novelty Steam Boiler Works Co., Baltimore, Md	
BRICK—Face and Fire	GRANITE N. C. Granite Co., t. Airy, N. C
BRICK—Face and Fire Richland Shale Products Co., Columbia, S. C., 91 Stark Brick Co., Canton, Ohio, 78 A. J. Bohn, Atlanta, Ga., 76 F. Graham Williams Brick Co., 176 The Westedor Clay Products Co., Upper Sandusky, Ohio, 79	GRAVEI
A. J. Bohn, Atlanta, Ga	The Georgia Gravel Co., Columbus, Ga
The Wyandot Clay Livers	Winchester Radiator Cabinet Co., Chicago, Ill
	H
BRONZE, BRASS	HEATING EQUIPMENT—Electric. Oil. Steam. etc.  Automatic Electric Heater Co Philadelphia, PaFr. Ins. Cov.
DIN DEDC' HADDWARE AND SUPPLIES	Bennet Heater Co., Inc., Norwich, N. Y Bk. Ins. Cov.
H. B. Ives Co., New Haven, Conn. Waste & Supply Store	Bryan Steam Corp., Peru, Ind
Lombard Foundry, Machinery, Boiler Works & Supply Store 93 Augusta, Ga	Kausalite Mfg. Co., Chicago, Ill
C	National Pipe Bending Co., New Haven, Conn Bk. Ins. Cov.
CAULKING COMPOUNDS	Automatic Electric Heater Co., Philadelphia, Pa., Irr. Ins. Cov. Bennet Heater Co., Inc., Norwich, N. Y., Bk. Ins. Cov. Bryan Steam Corp., Peru, Ind., 32 Dunham Co., C. A., Chicago, Ill., 38 Kausalite Mfg. Co., Chicago, Ill., 96 May Oil Burner Corp., Baltimore, Md., 10 National Pipe Bending Co., New Haven, Conn., Bk. Ins. Cov. Oakland Foundry Co., Belleville, Ill., Fr. Ins. Cov. International Fuel Service Corp., Bridgeport, Conn., 75
CAULKING COMPOUNDS  Pittsburgh Caulking Co., Pittsburgh, Pa	HEATING FIXTURES—Warm Air Pipe. etc. Atlanta Weir Furnace Co., Atlanta, Ga
	Caloric Furnace Co., Atlanta, Ga
Penberthy Injector Co., Detroit Mich.	I
CEMENT Atlas Portland Cement Co., New York, N. Y	INCINERATORS  Note that the second of the se
Georgia Cement & Products Co., Birmingham, Ala	Economy Incinerator Co., Milwaukee, Wis. 85 Home Incinerator Co., Milwaukee, Wis. 27 Pittsburgh Incinerator Co., Pittsburgh, Pa. 74
Georgia Cement & Products Co., Birmingham, Ala	INK Drawing
Signal Mountain 1 Office	Pelican Works, New York, N. Y
American Seating Co., Chicago, III.	INSERTS & METAL HANGERS "Tie-To" Insert Co., Milwaukee, Wis
Concrete Form Hold Corporation, Atlanta, 86	INTERIOR DECORATORS
"Tie-To" Insert Co., Milwaukee, Wis. Universal Cement Mold Co., North Milwaukee, Wis. 74	IRON AND STEEL -Structural and Ornamental
D	Grainger & Co., Inc., Louisville, Ky
DOOR CHECKS Chicago III	Phoenix Iron Co., Phoenixville, Pa
Oscar C. Rixson Co., Chicago, Ill	Standard Steel Sections, Inc., New York, N. Y
Peelle Company, Drooklyn, 15, 19	
Peelle Company, Brooklyn, N. Y. 19 Reliance Fireproof Door Co., Brooklyn, N. Y. 19 Luke Seawell, Atlanta, Ga. 76 United Metal Products Co., Canton, Ohio 70	JAIL AND PRISON EQUIPMENT Manly Jail Works, Dalton, Ga
United Metal Products Co., Canton	L L
DOORS—Sho werstalls  Crist & Schilken Co., Inc., Pittsburgh, Pa	LIGHTING FIXTURES
	LIGHTING FIX TURES
ELECTRIC SUPPLIES—Panelboards, Conduits, etc.	Kaylite Mfg. Co., New York, N. Y
Frank Adam Electric Co., St. Louis, Mo	Victor S. Pearlman & Co., Chicago, Ill
Frank Adam Electric Co., St. Louis, Mo	J. J. Wyle & Bro., Inc., New York, N. Y
ELEVATORS	I I Hoffman & Co., Atlanta, Ga
American Elevator & Machine Co., Inc., Louisville, Ky	W. C. Pauley, Atlanta, Ga76

# PENNSYLVANIA STRUCTURAL SLATE CO., Inc.

BLACKBOARDS STRUCTURAL SLATE FOR ALL PURPOSES General Offices: 1st Natl. Bk. Bldg. EASTON, PA. "Yours for Prompt Service" CLOSET STALLS SHOWER STALLS URINAL STALLS



this Operator opens Outswinging Casements in 3½. Turns of the Handle, does not disturb Fly Screens and Locks at any point Positively and Automatically. Write for details, or see Sweet's Catalog

THE OSCAR C. RIXSON COMPANY 4450 Carroll Avenue Chicago, Ill.

Southeastern Representative: Luke Seawell 144 Spring St., N. W., Atlanta, Ga.

Representative for Louisiana and Mississippi: Fred J. Allen 202 Balter Bldg., New Orleans, La.

New York City

Philadelphia

Winnipeg

Los Angeles



Overhead Door Checks Floor Checks, Single Acting Floor Checks, Double Acting Olive Knuckle Hinges Friction Hinges

Casement Operators & Hinges Concealed Transom Operators Adjustable Ball Hinges Butts, Pivots and Bolts Door Stays and Holders

#### Telican Telican Telican Telican

A prominent Vermont architect says:



• "Pelican Waterproof Drawing Ink is the best T have used in 50 years' practice."

An architect knows his inks

HAVE YOU HAD A HAND-APPLIED COLOR CHART? SENT ON REQUEST.

PELICAN WORKS GUNTHER WAGNER, Inc.

34 East 23rd Street, New York

Telicań Telican Telican Telican



Reg. U. S. Pat. Off.

# BAYONNE

#### ROOF AND DECK CLOTH

We are pioneer manufacturers of Roof and Deck Cloth and offer architects a product which they may specify with confidence. Those who have recommended it have found its quality dependable—proved it under trying conditions and all kinds of weather. If you have never used Boyle's Bayonne Roof and Deck Cloth, we will gladly send you sample book "M" and the facts about its remarkable record.

#### JOHN BOYLE & CO., Inc.

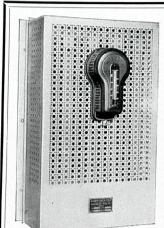
Established 1861

112-114 DUANE ST.

70-72 READE ST.

NEW YORK CITY

Branch: 1317-1319 PINE ST., ST. LOUIS



#### THE NEW EASY ELECTRIC HEATERS

AUTOMATIC **TEMPERATURE** CONTROL

Designed especially for theatre organ chambers, box offices, etc., but will prove useful in many other places. Made in 500, 1000, 1500, 2000 and 3000 watt capacity.

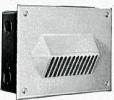
Also The Flush Wall Aisle Light for Ramps, Stairways and Corridors in Theatres, Hotels,

Hospitals

and many other places where they will be useful.

KAUSALITE MFG. Co., 8129 Rhodes Ave., CHICAGO, ILL.

WRITE FOR PARTICULARS



Patented.

QUALITY Established 1880

SERVICE

# THE STANDARD MARBLE WORKS CO.

Telephones: WEST 2705 WEST 2706

CINCINNATI, O.

Importers and Workers in MARBLE, ONYX, SLATE and SOAPSTONE

LUMBER Enochs Lumber & Mfg. Co., Jackson, Miss	SIDEWALK LIGHTS Richards & Kelly Mfg. Co., Chicago, Ill
Long Leaf Yellow Pine Mtg. Assn., New Orleans, La	SIGNAL SYSTEMS Signal Eng. 8 Mfg. Co., New York, N. Y
M MAIL CHUTES, BOXES, ETC. Cutler Mail Chute Co., Rochester, N. Y	SLAG Birmingham Slag Co., Birmingham, Ala
MANTELS	SLATE—Structural. Blackboard. etc Knickerbocker State Co., New York, N. Y
Columbia Mantel Co., Louisville, RY. Georgian Mantel Co., New York, N. Y.  MARBI F.	SLATE—Flagging, Roofing Knickerbocker Slate Co., New York, N. Y
Georgia Marble Co., Tate, Ga	STAINED GLASS WINDOWS
METAL CEILINGS	Payne Studios, Geo. Hardy. Paterson, N. J
METAL DOORS  Reliance Fireproof Door Co., Brooklyn, N. Y	STAIR TREADS  Pennsylvania Structural Slate Co., Easton, Pa
METAL FORMS—Concrete Construction Deslauries Metal Products Co., Detroit, Mich	Bedford Cut Stone Co., Bedford, Ind. 92 Briar Hill Stone Co., Glenmont, Ohio 92 T. R. Coughlan Co., Mankata, Minn. 92 Indiana Limestone Assn. Bedford, Ind. 1 Indiana Oolitic Limestone Co., Bloomington, Ind. 14 Reed-Powers Cut Stone Co., Bedford, Ind. 74 Southern Cut Stone Co., Bowling Green, Ky. 90
MILLWORK—Interior, Trim, etc.  Enochs Lumber & Mfg. Co., Jackson, Miss., 2  Hartman-Sanders Co., Chicago, III., 2  Marshall Mfg. Co., Rome, Ga., Back Inside Cover Steves Sash & Door Co., San Antonio, Texas, 12	STORE FRONTS—Metal, Etc.  Modern Bronze & Store Front Co., Chicago, Ill. 11 Zouri Drawn Metals Co., Chicago, Ill. 11
MORTAR COLOR  Chattanooga Paint Co., Chattanooga, Tenn	T TANKS—Water, etc.  R. D. Cole Mfg. Co., Newnan. Ga
P PAINTS AND VARNISHES Birmingham Paint & Glass Co., Birmingham, Ala	Novelty Steam Boiler Works. Baltimore. Md
PIPE—Wrought Iron Pipe Railing Construction Co., Long Island City, N. Y100	THEATRE EQUIPMENT Peter Clark, Inc., New York, N. Y
PLUMBING—Supplies, Fixtures         89           Acheson Mfg. Co. Braddock, Pa	TILES—Flooring, Roofing, etc.  Dodge, Daniels & Shook, Birmingham, Ala
Wheeling Sanitary Mig. Co., wheeling, W. V.  PROTECTIVE PRODUCTS  Asphalt Products Co., Syracuse, N. Y	Geo. Vincent. New York, N. Y
PUMPS—Vacuum Heating, etc.       17         Ames Pump Co., New York, N. Y.       99         Ideal Pump Co., Detroit, Mich.       99         Weil Pump Co., Chicago, Ill.       84	VARNISH  VENTILATORS, SYSTEMS, ETC.  Buckeye Blower Co., Columbus, Ohio 3 Royal Ventilator Co., Philadelphia, Pa. 92 Toch Bros., New York, N. Y. Bk. Ins. Cov.
RADIATORS—Steam, Gas, etc. Trolley Supply Co., Massillon, Ohio	VENETIAN GRILLS Steingruber Metal Products Co., Atlanta, Ga
RADIATOR ENCLOSURES, REGISTERS  Auer Register Co., Cleveland, Ohio	WALL SAFES Caldwell Mfg. Co., Rochester, N. Y
Herrick Refrigerator Co., Waterioo, Iowa  ROOFING—Slate, Tiles. etc.  Knickerbocker Slate Corp., New York, N. Y., Chicago, Ill	WINDOWS—Fixtures, Frames, Accessories, etc.           Austral Window Co., New York, N.         Back Cover           Cal'dwe'l Mfg. Co., Rochester, N. Y.         90           Herman Bleck, Hammond, Ind.         90           Hagstrom Mfg. Co., Glen Cove, L. I., N. Y.         90           W. E. Putnam Co., Worcester, Mass.         90           Oscar Rixson Co., Chicago, Ill.         96           Samson Cordage Works, Boston, Mass.         74
SASH CORDS, CHAINS, ETC. Samson Cordage Works, Boston, Mass	Luke Seawell, Atlanta, Ga.  Smith & Egge Mfg. Co., Bridgeport, Conn.  United Specialties Mfg. Co., We York, N. Y.  90
SASH—Balances, etc. Caldwell Mfg. Co., Rochester, N. Y	Vento Sicei Sash Co., Muskegon, Michiel Zouri Drawn Metals Co., Chicago, Ill. 11  WINDOW GLASS  Blackford Window Glass Co., Vincennes, Ind. 78

# Index to Advertising Announcements Please mention Southern Architect and Building News when writing these advertisers

A	Coughlan, T. R., Co92	Knickerbocker Slate Corp70	Reinhardt, Edw. G., Mfg. Co., 83
N: 1 6-i 11/2 C2 9		Kny-Scheerer Corp	Reliance Fireproof Door Co24
Abingdon Sanitary Míg. Co9		Kuhls, Fred H. B91	Richards & Kelley Co84
Acheson Mfg. Co	Cutler Mail Chute Co85	Kushequa Keramic Co92	Richland Shale Products Co91
Adam, Frank, Electric Co 22	D	L	Rising & Nelson Slate Co 7
American Blue Stone Co 91	Dahlquist Mfg. Co72	Laco Oil Burner Corp28	Rixson, Oscar C., Co96
American Elev. & Mach. Co 100	Dale Lighting Fixtures Co 87	Lombard Foundry, Machine and	Royal Ventilator Co92
American Institute of Archts *	Dayton Fire Door Co87	Boiler Works93	Rowles, E. W. A74
Ames Pump Co., Inc	DeLong Furniture Co25	Loomis-Manning Filter Distr.	S
American Seating Co	Dodge, Daniel & Shook 93	Co	기계나는 이번 경기 아이지 않는 한 경기 전환 모두 경기 가격한 경기를 가져지 않고 있다.
Arkansas Oak Flooring Co 13	Dunham Co., C. A	Long-Bell Lumber Co	Safepack Mills
Arnold & North, Inc73	Dunlap & Co93	Long Leaf Yellow Pine Mfg.	Seawell, Luke
Asphalt Products Co., The 94	Е	Assn	Sedgwick Machine Wks33
Atlanta Weir Furnace Co76	Economy Incinerator Co85	Ludowici-Celadon Co 5	Shelby Spring Hinge Co91
	Enochs Lumber & Mfg. Co12	. M	Signal Engineering & Mfg. Co., 31
Atlanta Terra Cotta Co84	Eustis, J. P., Mfg. Co23	Mallory Mfg. Co 90	Signal Mountain Portland
Atlas Portland Cement Co 4	Evans Elevator Equalizer Co 83	Manuel Carragol & Sons88	Cement Co
Auer Register Co	F	Manly Jail Works	Smith & Egge Mfg. Co87
Austral Window Co Back Cover	Flagler Co., The	Maple Flooring Mfg. Assn 26	Snead Architectural Iron Works, 98
Automatic Elec. Htr. Co.,	Fords Porcelain Wks10	Marshall Mfg. Co Bk. Ins. Cov.	Southern Cut Stone Co90
Fr. Ins. Cov.	Forman Co., The	May Oil Burner Corp10	Southern Lumber and Millwork
	G	McCabe, J. S76	Assn
В	General Elec. Supply Corp76	McClintic-Marshall Co 100	Spiker, W. C., & Co76
Baker, C. T	Ga. Cement & Products Co *	Milwaukee Stamping Co 88	Standard Marble Works Co97
Beaton & Cadwell Mfg. Co72	Georgia Gravel Co100	Mississippi Wire Glass Co	Standard Steel Sections, Inc 77
Bedford Cut Stone Co92	Georgian Mantel Co., Fr. Ins. Cov.	Between 16-17	Stark Brick Co
Bennett Heater Co., Inc	Georgia Marble Co8	Modern Bronze and Store	Steingruber, Geo 76
Bk. Ins. Cov.	Grainger & Co., Inc	Front Co	Steves Sash & Door Co12
Birmingham Paint & Glass Co 93	Н	N	Swedish Venetian Blind Co100
Birmingham Slag Co82	Hagstrom Mfg. Co90	Nashville Hdw. Flooring Co13	
Blackford Window Glass Co78	Haven-Busch Co 83	National Asbest-O-Phait Co 81	T
Bleck, Herman90	Hartmann-Sanders Co	National Cement Co77	Tenn. Oak Flooring Co13
Blue Ridge Glass Co31	Heath, J. S., Co92	National Electric Prod. Co 15	"Tie-To" Insert Co
Bohn, A. J	Herrick Ref. Co	National Pipe Bending Co	Toch Bros Bk. Ins. Cov.
Bowlus Mfg. Co89	Herwig Co., The	Bk. Ins. Cov.	Trolley Supply Co89
Boyle, John, & Co., Inc 96	Hoffman, J. L., Co93	Nelson, N. O., Mfg. Co84	U
Briar Hill Stone Co92	Home Incinerator Co	Newcomb, Robt. S95	United Specialties Mfg. Co90
Bradley Lumber Co	Hope, Henry & Son71	North Carolina Granite Corp 86	United Metal Products Co70
Bruce Co., E. L	Hopson, W. C., Co111	Norman-Boosey Mfg. Co20	
Bryan Steam Corp32		Manufaction Comm. Boiler Wile 83	
	Horn & Brannen Mfg. Co73	Novelty Steam Boiler Wks83	U. S. Quarry Tile Co84
Buckeye Blower Co 3		0	U. S. Quarry Tile Co
Builders Iron Co., Inc74	Horn & Brannen Mfg. Co73 Horton Mfg. Co93	O Cov Fr. Ins. Cov.	U. S. Quarry Tile Co84 Universal Cement Mold Co74  V
Builders Iron Co., Inc74 Bull Dog Floor Clip Co88	Horn & Brannen Mfg. Co73 Horton Mfg. Co93  I	O Oakland Fdry. Co Fr. Ins. Cov. Otis Elevator Co	U. S. Quarry Tile Co
Builders Iron Co., Inc74	Horn & Brannen Mfg. Co	O Oakland Fdry. Co. Fr. Ins. Cov. Otis Elevator Co. *	U. S. Quarry Tile Co
Builders Iron Co., Inc74 Bull Dog Floor Clip Co88	Horn & Brannen Mfg. Co	O Oakland Fdry. Co Fr. Ins. Cov. Otis Elevator Co	U. S. Quarry Tile Co
Builders Iron Co., Inc74 Bull Dog Floor Clip Co88	Horn & Brannen Mfg. Co	O Cakland Fdry. Co. Fr. Ins. Cov. Otis Elevator Co. *  P Pauley. W. C	U. S. Quarry Tile Co
Builders Iron Co., Inc	Horn & Brannen Mfg. Co	O Oakland Fdry. Co. Fr. Ins. Cov. Otis Elevator Co. *  P Pauley. W. C	U. S. Quarry Tile Co
Builders Iron Co., Inc	Horn & Brannen Mfg. Co	O Oakland Fdry. Co. Fr. Ins. Cov. Otis Elevator Co. *  Pauley. W. C	U. S. Quarry Tile Co
Builders Iron Co., Inc	Horn & Brannen Mfg. Co	Oakland Fdry. Co. Fr. Ins. Cov. Otis Elevator Co. *  Pauley. W. C	U. S. Quarry Tile Co
Builders Iron Co., Inc	Horn & Brannen Mfg. Co	O Cakland Fdry. Co. Fr. Ins. Cov. Otis Elevator Co. *  P Pauley. W. C	U. S. Quarry Tile Co
Builders Iron Co., Inc	Horn & Brannen Mfg. Co	O Cakland Fdry. Co. Fr. Ins. Cov. Otis Elevator Co. *  P Pauley. W. C	U. S. Quarry Tile Co
Builders Iron Co., Inc	Horn & Brannen Mfg. Co	O	U. S. Quarry Tile Co
Builders Iron Co., Inc	Horn & Brannen Mfg. Co	O Cakland Fdry. Co. Fr. Ins. Cov. Otis Elevator Co. *  P Pau'cy. W. C	U. S. Quarry Ti'e Co
Builders Iron Co., Inc	Horn & Brannen Mfg. Co	O Cakland Fdry. Co. Fr. Ins. Cov. Otis Elevator Co. *  P Pauley. W. C	U. S. Quarry Tile Co
Builders Iron Co., Inc	Horn & Brannen Mfg. Co	O Cakland Fdry. Co. Fr. Ins. Cov. Otis Elevator Co. *  P P	U. S. Quarry Tile Co
Builders Iron Co., Inc	Horn & Brannen Mfg. Co	O Cakland Fdry. Co. Fr. Ins. Cov. Otis Elevator Co. *  P Pauley. W. C	U. S. Quarry Tile Co
Builders Iron Co., Inc	Horn & Brannen Mfg. Co	O Cakland Fdry. Co. Fr. Ins. Cov. Otis Elevator Co. *  P P P	U. S. Quarry Tile Co
Builders Iron Co., Inc	Horn & Brannen Mfg. Co	O Oakland Fdry. Co. Fr. Ins. Cov. Otis Elevator Co. *  P P	U. S. Quarry Tile Co
Builders Iron Co., Inc	Horn & Brannen Mfg. Co	O Cakland Fdry. Co. Fr. Ins. Cov. Otis Elevator Co. *  P Pauley. W. C	U. S. Quarry Tile Co
Builders Iron Co., Inc	Horn & Brannen Mfg. Co	O Oakland Fdry. Co. Fr. Ins. Cov. Otis Elevator Co. *  P P	U. S. Quarry Tile Co

#### STRUCTURAL STEEL ORNAMENTAL IRON

# Snead Architectural Iron Works

Louisville, Kentucky

PLAIN or FABRICATED STEEL FOR IMMEDIATE SHIPMENT

#### A Report of Tests

by A. M. Daniels

Consulting, Heating and Ventilating Engineer of Washington, D. C.

showing actual performance of the

## BENNETT HEATER-VENTILATOR

Facts, ascertained in a strictly scientific manner, by a disinterested heating specialist, that demonstrate what CAN be done to make an EFFICIENT heater of the fireplace. You'll find this interesting.

Copy gladly sent on request.

#### BENNETT HEATER CO.

Southern Division

**Builders' Building** 

CHARLOTTE, N. C.

# REMEMBER ITS WATER PROOF

# The Authority of Accomplishment

TOCH BROTHERS, during 80 years of exhaustive research and painstaking manufacturing care, have perfected water-proofing and dampproofing compounds that meet every requirement in every type of structure large or small.

The Toch organization stands ready and willing to cooperate with architects and builders to the fullest extent of their ability. For catalogs, prices and complete information address Toch Brothers, 443 Fourth Avenue, New York.

# TOCH BROTHERS

DAMPPROOFING and WATERPROOFING COMPOUNDS

NEW YORK CHICAGO LOS ANGELES LONDON



division of STANDARD VARNISH WORKS

Adv. No. Q-1

# Quality Millwork

MARSHALL MILLWORK is far more than just a phrase.

It stands for substantial facts. It means Millwork into which enter care, experience, responsibility and the painstaking effort to uphold the prestige that our product enjoys.

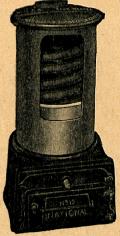
We will figure the job carefully, manufacture the millwork of the best material in faithful conformity to Architect's specifications, and deliver it on time.

MARSHALL MANUFACTURING COMPANY

ROME

GEORGIA

# Abundant Hot Water at Low Cost



Copper Coil and Bronze Fittings

Hot water fuel bills are cut in half with the National Multi-Flow Heater. Burns buckwheat or pea coal, producing hot water through rapid circulation in large double wound copper coil. Connects with boiler. No water back to crack. No rusty water. No repair bills. Hundreds of National Heaters now giving satisfactory service an dsaving real money for the owners. For small homes, use the No. 12 size; larger residences, No. 16 size. Apartments and clubs, No. 20 size. Prices and bulletin on request.

THE NATIONAL PIPE BENDING CO.

Est. 1883 198 RIVER STREET NEW HAVEN, CONN.

NEW YORK

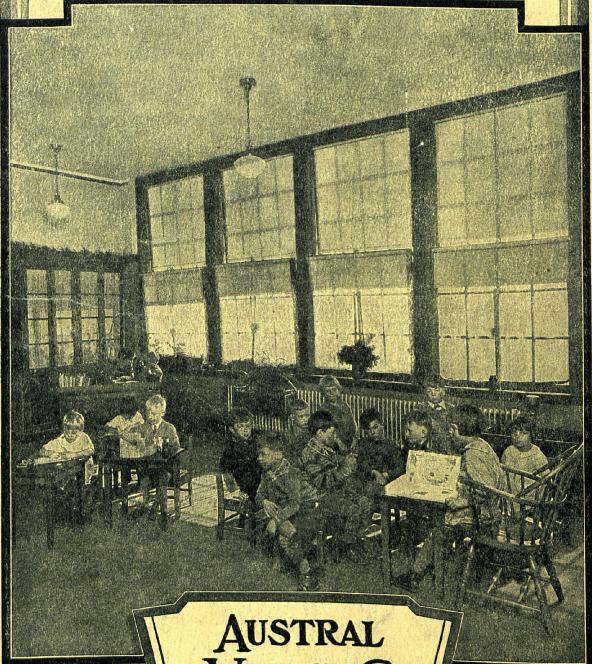
BOSTON

PHILADELPHIA



School Architects were among the first to recognize the superior advantages of AUSTRAL WINDOWS. They have consistently specified them as a STANDARD. More Light Area . . . Perfect Ventilation . . . Economy.





Showing Austral Windows installed in a Kindergarten. Despite the fact that these windows appear to be closed, they are open from 12 to 15 inches at the center.

INDOW (C.

101 PARK AVENUE NEW YORK

The openings at the center of the Austral Windows deflect the incoming air up into the center of the room, giving perfect ventilation with no danger of draft.