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This new material on Tudor architecture will be welcomed by every designer of artistic homes. The beautiful collection of 300 illustrations from photographs, 30 full page measured drawings, 12 x 16 inches in size, and 60 reproductions of Mr. Chamberlain's delightful pencil sketches and dry points, are the result of an exhaustive search for new details and examples of smaller houses of the Tudor period. The descriptive text with its expression of this artist's viewpoint adds to the usefulness of this handsome volume. Every architect who has seen it has wanted it.

Working from carefully prepared data, the author visited most of the Tudor mansions of importance in central and southern England, and sketched and photographed many remote and unheralded houses of unique interest. The stone houses of the Cotswolds, the plaster cottages of Essex, the timbered work of Cheshire and Herefordshire, the brickwork of Norfolk, all of these pure types, and innumerable variations of them are fully treated. Manors as famed as Horham Hall, East Barsham Manor, Stokeley Castle and St. Osyth's Priory are illustrated side by side with such obscure and delightful places as Maseley Court, "Josselins" at Little Hooresley, and the rectory at Great Snoring. All of the material has been selected with the predominating purpose of providing data and illustrations which will furnish practical, adaptable information for the domestic architect in this country.

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For anyone who is interested, and in Mexico long enough, there are qualities to be found in Mexican architecture far more important than what is usually referred to as the "Colonial" architecture of Spain. Books have been published about the Baroque in Mexico, the viceregal cities of Mexico, etc., but in Garrison and Rustay’s "Mexican Houses" we encounter probably the first attempt to carefully study and present data on what is Mexican in houses.

In Mexico it happens that the "Colonial" was an imposed style, and if one is looking for genuine Spanish character in buildings there, it is certainly to be found, particularly in the grandiose palaces and churches, though slightly inferior, perhaps, when compared with the thousands of originals in Spain. It is in the remote parts of Mexico and in the less imposing buildings that one looks for and finds the most charming things, the most ingenious bits of invention, and the most consistent development of local characteristics. That is what Garrison and Rustay have done. They were not content, they probably were never even interested, in producing a volume of "show places." Instead, they dug in for their material; they went into the country and worked, and they availed themselves of all information the Mexicans themselves had to offer,—which is not as easy as it sounds. Jorge Encisco gave them priceless advice and information, and so did the Marquez de San Francisco, and likewise Moises Saenz and officials of the Department of Education. They visited and studied their material in all sorts of places the tourist agencies never heard of,—and probably will not hear of for a long time. They went to Zamora, to San Miguel Allende, to Urupan and to Patzcuaro. And, in spite of the fact that they took the state of Jalisco to be named Guadalajara, they traveled more or less thoroughly from those parts southward, including Michoacan, Guanajuato, Queretaro, Mexico, Puebla, Guerrero and Oaxaca,—all the way to the Isthmus of Tehuantepec,—drawing and photographing, seeking to understand these peoples' architecture, as they themselves say: "... intending deliberately to disregard all buildings of the more monumental types,—even though it was impossible not to pause frequently to admire the magnificence of the Churrigueresque and the commanding beauty of what Dr. Atl calls the 'Ultrabaroque.'"

The result is a significant work. In "Mexican Houses" one may begin to discover Mexico. Architects will find in this volume an unsuspected wealth of domestic material. It is full of all sorts of things not taught in the architectural schools; one might say it is of the spirit, as opposed to the letter of good architecture. It will be a vast surprise to all those urban architects trained in the importance of the masters and the architecturally historic monuments.

These young architectural authors say in their preface: "Of the houses in this book, few are the work of architects. They were done usually by masons of the town, who were known to be good, and whose inspiration was drawn indirectly from the more important monuments of the place. In plan they were adapted sensibly to the requirements of the owners and to the terrain. The character of the ornament depended on the skill of the workers, influenced by a background of what, for lack of a better term, we call the 'Aztec tradition.' These people, who seldom left the places where they were born and whose ancestors came from races differing greatly in temperament and characteristics, were in part responsible for the individual nature of the work of various sections. It is perhaps true to say that in any country it is the architecture of secondary importance which best reflects the life and people of the time... So extensive was the architectural activity in Mexico throughout the historic period of the Spanish-Colonial occupation, so prolific in results, so general, and,—for this continent,—so unexampled in its lavish employment of the decorative arts, that it might be easy for a student of its phases to subject himself to the charge of over-enthusiasm, of an overestimate of its
Selected Books on Architecture

Cottages, Farmhouses, and Other Minor Buildings in England
By L. C. Rosenberg
Every architect should have this splendid collection of photographs, measured drawings and charming pencil sketches of farmhouses and cottages in rural England, dating from the Tudor Period, the 17th and the 18th centuries. The various types of buildings have been selected with special reference to their development through the use of local building materials in the counties of Surrey, Sussex, Kent, Suffolk, Norfolk, Oxfordshire, Warwickshire, Wiltshire and Northamptonshire.

The book is illustrated by one hundred photographs, twenty-five sheets of measured drawings, and twenty-five full page pencil sketches of exteriors, interiors, doors, fireplaces, chimneys, windows, etc. 122 pages, 9 1/2 x 12 1/2 inches, cloth. Price $10.00. American Architecture—City and Suburban

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The Executive Committee of the Boston Society of Architects makes the award on the recommendation of the Committee on Education of the Society. The holder is eligible for re-appointment. Applications for the year 1931 should be in the hands of Niels H. Larsen, Secretary of the Committee on Education of the Boston Society of Architects, 814 Statler Building, Boston, on or before January 19, 1931, and should give the applicant's age, education, experience, present occupation and suggestions for his work abroad.

A SMALL HOUSE COMPETITION


RALPH STARRETT
1868-1930

ALTHOUGH continued ill health had caused Ralph Starrett to turn over much of his work during the last two or three years to his younger associates in Starrett Brothers, Inc., of Illinois, his death in Chicago on Monday, December 1, removes an outstanding figure from the building field.

Ralph Starrett was born July 27, 1868, in Lawrence, Kas., the son of William Aiken Starrett, a Presbyterian minister; his mother was Helen Ekin Starrett, prominent as an educator and founder of the well known Starrett School for girls in Chicago. He was one of five boys and two girls; two of the brothers, Theodore and Goldwin, died about 13 years ago. During the boyhood of Ralph Starrett the family moved to Highland Park, Ill., where he attended high school and later the Lake Forest Academy. After several lesser business activities he went to work in his early 20's with his brother Theodore, of the firm of Whitney & Starrett, and was identified with the building industry from that time onward, his name being associated with some of the company's most important commercial and other structures. After the crowded war period he suffered a nervous breakdown and was unable to work for some time. Although he recovered his health to some extent and was able to associate himself with his brothers as president of Starrett Brothers, Inc, of Illinois, his death in Chicago on Monday, December 1, removes an outstanding figure from the building field.

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ARCHITECTS' FINANCE COURSE

BEGINNING February 6, Columbia University will offer an evening course on "Architects' Relation to the Promotion and Financing of Income-producing Structures." Lectures and discussion will be in charge of C. H. Lench.

BATHROOM DESIGN AWARDS

PRIZES amounting to $27,500 were awarded to 270 architects in the recent bathroom design competition sponsored by the Standard Sanitary Manufacturing Company. In the Class A contest for $15,000 homes, the leading winners were: Edgar Thompson, Detroit; Percival Goodman, New York; E. W. W. Klausen, Los Angeles; Ferdinand Eiseman, New York; and Charles E. Greenidge, Utica, N. Y. In the Class B contest, for houses with no limit on cost, the first five were: B. S. Grillo, New York; Richard Haviland Smythe, New York; Dwight E. Stevens, Cincinnati; Everett M. Jones, Chicago; Louis Reich, St. Louis.
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THE ARCHITECTURAL FORUM

VOL. LIV, NO. 1

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FROM A WATER COLOR
RENDERING BY
J. FLOYD YEWELL

The Architectural Forum
AN interesting development in the planning of present day office buildings is the change in the conception that the architect has of his work. The day that he could sit before his drawing board and make pretty sketches of decidedly uneconomic monuments to himself has gone. His scorn of things "practical" has been replaced by an intense earnestness to make practical necessities the armature upon which he moulds the form of his idea. Instead of being the intolerant aesthete, he is one of a group of experts upon whom he depends for the success of his work, for the modern large building with its complicated machinery is beyond the capacity of any one man to master, and yet he must, in order to control the disposition and arrangement of this machine, have a fairly accurate general knowledge of what it is all about. Added to this he must know how to plan his building so that it will "work" economically and produce the revenue for which his clients have made their investment.

In this spirit of cooperation with experts, the builder and the engineer, the effort was made to solve the problem of the design of the Empire State. The program was short enough—a fixed budget, no space more than 28 feet from window to corridor, as many stories of such space as possible, an exterior of limestone, and completion by May 1, 1931, which meant a year and six months from the beginning of sketches. The first three of these requirements produced the mass of the building and the latter two the characteristics of its design.

THE elevator system was one of the keys to both the general arrangement of the plan and to the height to which the building could rise. The critical point in the plans determining the number of cars which could be provided for was at about the 30th floor where, legally, the tower begins, for with the area of this floor restricted by the zoning requirements to one-quarter of the size of the property, there was a limited amount of space which could be used for "utilities" and still have adequate space to rent. Study, therefore, concentrated on this portion of the building, to find the most economical shape and arrangement of the loft type on the same site. These sketches, Scheme J, on page 2, show the elevators placed at right angles to the main axis of the building. The elevator groups "drop off" in sequence, an arrangement which forced the tower far back from the Fifth Avenue front. The "loft" type plan was intended to introduce light into the deep space, but this idea produced many dark corners and gave too much volume for the height desired. The plan of the tower was also a relic of the previous scheme, and when additional elevators were added, there resulted a floor plan which was not capable of good subdivision. This plan was therefore abandoned.

In the meantime, a preliminary investigation was being carried on by the group of experts which had been formed to inquire into the many and difficult technical problems which had to be solved before any serious work could begin. This group included Bassett Jones for the elevators, H. G. Balcom for the steel frame, Henry C. Meyer for the heating and ventilating, and Fred Brutschy for the plumbing.
Three Typical Floor Plans of Scheme "J" Which Were Developed From Previous Sketches Made For a Loft Type Building on the Same Site
Three Corresponding Typical Plans of Scheme "K" Which Were Made as a Result of the Preliminary Study and Investigation of the Various Problems
Plan, 33rd to 40th Floor

Plan, 24th Floor

Plan, 6th and 7th Floors

Three Corresponding Typical Floor Plans of the Building as Finally Developed by the Detailed Study Put Into the Actual Working Drawings
of course by practical consideration of construction and elevator operation. The four groups of high-rise elevators are placed in the center of the building with the low-rise groups adjoining on the east and west sides so that as these drop off, the building steps back from the long dimension of the property to approach the square form of the shaft, with the result that instead of being a tower, set upon a series of diminishing setbacks prescribed by the zoning law, the building becomes all tower rising from a great five-story base.

While these sketches fixed the general mass of the building, its height had not yet been fully determined. Two very important factors were to make this decision, elevators and budget. Mr. Jones, therefore, commenced an accurate determination of the elevators which he could now do with the sketch plans and the floor by floor areas, and Starrett Brothers & Eken, Inc., for the purpose of determining how high the building might be carried within the budget, made a careful approximate estimate based on these same sketches and an outline specification. It was a coincidence that both arrived at a limit of 80 stories, plus five floors of pent house.

At this point, with the general plan and the mass of the building determined, there entered the last and perhaps the most important item in the owner’s program—speed of construction. The development of the window and spandrel detail described in Mr. Shreve’s article in the July, 1930, Forum, although it was worked out through an ardent desire to get rid of reveals, inadequate and useless in a building of such height, was the solution of the problem of the rapid building of the limestone walls, and the scheme of the vertical strips and Mullions of polished steel, which give the building its characteristic appearance, was evolved to effect, in a simple manner, a proper junction between wall and window. The elimination of all shelf angles and other special steel supports for the stone piers made it possible to prepare the steel drawings and proceed with fabrication before the design and fenestration of the exterior were determined in detail, giving an opportunity to study the window treatment with great care, many small scale models being made in an effort to visualize what the effect would be. These studies proved the necessity (if the time schedule didn’t) of handling the stone work with utmost simplicity so that it would become merely a background for the applied metal and glass. It was only in the lower stories that some detail was introduced in the pier caps and the flanking half columns of the main entrance.

It would be interesting to speculate on the in-

THE great height contemplated made the problem of wind bracing extremely important, especially in the narrower dimensions of the property. It was highly desirable that all the columns should in addition to carrying through vertically, also be in line horizontally in both directions, producing a complete gridiron. This principle was adhered to until it was found that the columns became so large at the bottom that they could not be placed in front of the tower elevator shafts which made it necessary to substitute two bays for three in the longer side of the tower in that portion of the building.

At the same time consultation with Mr. Meyer and with Mr. Brutschy determined in a general way the size and location of ventilation and pipe shafts which were such that they became a very important consideration in the general scheme. Conferences with the builders, Starrett Brothers & Eken, Inc., fixed the general speed program and types of building construction.

The principles, established by these cooperative investigations, which covered a period of four weeks, together with the owner’s requirements, now formed the complete program. The “parti” was arrived at in two hours, the evening before a meeting of the owner’s corporation. An all night “charrette” produced the next day a series of five or six of the essential plans, an elevation, a perspective, and a fairly accurate tabulation of rentable areas and cube. It is interesting to compare these plans shown on page 3 with the corresponding plans after they had been worked out in detail.

THE logic of the plan is very simple. A certain amount of space in the center, arranged as compactly as possible, contains the vertical circulation, toilets, shafts and corridors. Surrounding this is a perimeter of office space 28 feet deep. The sizes of the floors diminish as the elevators decrease in number. In essence there is a pyramid of non-rentable space surrounded by a greater pyramid of rentable space, a principle modified
fluence this speed program had upon the design. Hardly a detail was issued without having been thoroughly analyzed by the builders and their experts and adjusted and changed to meet every foreseen delay. Choice of interior marbles was limited to those which could be obtained in time to be fabricated and set, and men were sent to the quarries abroad to get this information first hand. Rose Famosa and Estrallante were selected for the great entrance halls—ten thousand square feet of marble devoid of detail, depending for the effect entirely on their highly interesting color and veining, with 300,000 square feet of Hauteville and Rocheron for the elevator lobbies and corridors on the office floors—quantity production—sawn, "coped" and polished.

As far as possible hand work was done away with, for in quantity production with thousands of pieces of each material identical in shape and size, the delay would have been disastrous. Windows, spandrels, steel mullions and
stone, all fabricated in various parts of the country, were designed so that they could be duplicated in tremendous quantity with almost perfect accuracy and brought to the building and put together almost like an automobile on the assembly line. The limestone ashlar was made in such dimensions that it could be handled on ordinary material hoists within the building and trundled by baggage trucks to the perimeter of the floor and from there dropped by cable into its place in the wall between the steel jamb pieces already set.

The adaptation of the design to conditions of use, construction and speed of erection has been kept to the fore throughout the development of the drawings of Empire State. Whatever “style” it may be is the result of a logical and simple answer to the problems set by the economic and technical demands of this unprecedented program.
Models For the Empire State Building
Shreve, Lamb & Harmon, Architects
(Top) The Five-Story Base; (Below) One of the Pier Caps
TRUSTEES SYSTEM SERVICE BUILDING
CHICAGO

FROM SOUTHWEST

THIELBAR & FUGARD
ARCHITECTS
PLAN, 4TH TO 17TH FLOOR

FIRST FLOOR PLAN

TRUSTEES SYSTEM SERVICE BUILDING
CHICAGO
THIELBAR & FUGARD
ARCHITECTS
MAIN ENTRANCE

TRUSTEES SYSTEM SERVICE BUILDING
CHICAGO  THIELBAR & FUGARD, ARCHITECTS
PLAN, 14th TO 20th FLOOR

PLAN, 21st FLOOR

TRUSTEES SYSTEM SERVICE BUILDING
CHICAGO
THIELBAR & FUGARD
ARCHITECTS
ENTRANCE FROM THE LOBBY

TRUSTEES SYSTEM SERVICE BUILDING
CHICAGO  THIELBAR & FUGARD, ARCHITECTS
MAIN BANKING ROOM

ELEVATOR LOBBY

TRUSTEES SYSTEM SERVICE BUILDING
CHICAGO  THIELBAR & FUGARD, ARCHITECTS
STAIRS TO BANKING QUARTERS

TRUSTEES SYSTEM SERVICE BUILDING
CHICAGO  THIELBAR & FUGARD, ARCHITECTS
TRUSTEES SYSTEM SERVICE BUILDING
CHICAGO  THIELBAR & FUGARD, ARCHITECTS
TRUSTEES SYSTEM SERVICE BUILDING
CHICAGO  THIELBAR & FUGARD, ARCHITECTS
TRUSTEES SYSTEM SERVICE BUILDING
CHICAGO  THIELBAR & FUGARD, ARCHITECTS
TRUSTEES SYSTEM SERVICE BUILDING
CHICAGO  THIELBAR & FUGARD, ARCHITECTS

NORTH END, BANKING ROOM
DETAIL OF BANK SCREEN AND WICKET

TRUSTEES SYSTEM SERVICE BUILDING

CHICAGO THIELBAR & FUGARD, ARCHITECTS
ST. PAUL'S CHURCH
CHESTNUT HILL, PA.

ZANTZINGER, BORIE & MEDARY
ARCHITECTS
PLAN OF NAVE AND CHOIR

ST. PAUL'S CHURCH
CHESTNUT HILL, PA.
ZANTZINGER, BORIE & MEDARY
ARCHITECTS
ST. PAUL'S CHURCH
CHESTNUT HILL, PA.
ZANTZINGER, BORIE & MEDARY
ARCHITECTS
THE FLECHE

ST. PAUL'S CHURCH
CHESTNUT HILL, PA.
ZANTZINGER, BORIE & MEDARY ARCHITECTS
VIEW FROM THE ROAD

ST. PAUL'S CHURCH
CHESTNUT HILL, PA.
ZANTZINGER, BORIE & MEDARY
ARCHITECTS
ST. PAUL'S CHURCH
CHESTNUT HILL, PA.
ZANTZINGER, BORIE & MEDARY
ARCHITECTS
ST. PAUL'S CHURCH
CHESTNUT HILL, PA.
ZANTZINGER, BORIE & MEDARY
ARCHITECTS
ST. PAUL'S CHURCH
CHESTNUT HILL, PA.
ZANTZINGER, BORIE & MEDARY
ARCHITECTS
Sigurd Fischer

BUTTRESS AND GAROYLE

ST. PAUL'S CHURCH
CHESTNUT HILL, PA.
ZANTZINGER, BORIE & MEDARY, ARCHITECTS
ST. PAUL'S CHURCH
CHESTNUT HILL, PA.
ZANTZINGER, BORIE & MEDARY
ARCHITECTS
ST. PAUL'S CHURCH
CHESTNUT HILL, PA.
ZANTZINGER, BORIE & MEDARY
ARCHITECTS
ORGAN LOFT AND PEWS

ST. PAUL'S CHURCH
CHESTNUT HILL, PA.
ZANTZINGER, BORIE & MEDARY
ARCHITECTS
CARVING OF HAMMER BEAM AND CEILING

ST. PAUL'S CHURCH
CHESTNUT HILL, PA.
ZANTZINGER, BORIE & MEDARY
ARCHITECTS
CHOIR STALLS

ST. PAUL'S CHURCH
CHESTNUT HILL, PA.
ZANTZINGER, BORIE & MEDARY
ARCHITECTS
MISERERES

ST. PAUL'S CHURCH
CHESTNUT HILL, PA.
ZANTZINGER, BORIE & MEDARY
ARCHITECTS
Sigurd Fischer

PULPIT ST. PAUL'S CHURCH CHESTNUT HILL, PA ZANTZINGER, BORIE & MEDARY Architects
ST. PAUL'S CHURCH
CHESTNUT HILL, PA.
ZANTZINGER, BORIE & MEDARY ARCHITECTS
ALSO A.D. 1931

THE annual forecast of architectural and building activity, published on pages 89 to 94 of this issue, is somewhat optimistic in tone. Once again, the importance to the architect of a knowledge of economics and financial arrangements is evident, since the amount of building, and therefore of architectural prosperity, is dependent on available funds, - easier and more plentiful financing meaning more work for the architect. Other things being equal, the architects who are equipped to aid clients to obtain money for building, both through financial knowledge and financial contacts, are in the strongest position to go ahead with their work. Those who have not these assets, nor clients with ready cash, may have time to use in introspection.

It becomes more and more apparent that the practice of architecture has become a business and that the successful conduct of that business demands more than the ability to plan and design (though that is the prime essential); it requires an organization equipped with knowledge and ability in engineering and business. The ARCHITECTURAL FORUM recognizes this complexity of architectural practice today and has established a program for 1931 that is both comprehensive and directly related to types of work that will be done by architects throughout the coming year.

OUR OBJECTIVE

THE great danger in our current emphasis on economics, mechanical efficiency, materials and methods is that they may become ends in themselves. Above all, human relationships, man’s needs and desires, must be paramount in our thinking. All other factors must be subservient and contributary. Good Architecture is humanized, - not merely mechanized, for the sociological and psychological aspects of each building are of prime importance. Fundamentally, architecture is the art of enclosing space and providing facilities for various human activities in such a way that they contribute not only to physical wellbeing but to the finer sensibilities. If we will keep the fundamentals constantly before us during the coming year, it will be reflected in the quality and character of American architecture, and buildings will be created that are more truly functionally efficient, economically sound and aesthetically satisfying.—in other words,—Good Architecture.

Kemeth Kellmell
THE SECOND MILE

There is always a tendency to let someone else do it. There is a feeling that the efforts of an organization in some way absolve the individual from further contribution of his own effort and time. Organizations have set up committees, for instance, to handle the “unemployment situation.” The committees have done effective work. They have announced, at their luncheons, the grand totals of money received and pledged, and have then felt that the job was done and that now it was up to the efficient agencies of distribution,—the charity organizations, and so forth,—to distribute the satisfactory totals in small amounts.

Feeling that we have done our share, the subject no longer interests us. Yet, should this stop here? Have we done our level best to relieve the unemployment in our own ranks? Have we any assurance that the money that has been generously contributed will help some destitute draftsman and employment in our own ranks? Have we any assurance that the money that has been generously contributed will help some destitute draftsman and his dependents? Will the temporary employment be such that the recipient will be doing some constructive work of the kind for which he is fitted? There is research work, planning work, drafting work which these men could do under proper direction which would be far better than cleaning up the parks and vacant lots.

It is the duty of each architect and architectural office, as far as it is humanly possible, to give employment, even at a minimum wage, to former employees. Such effort can be promotion work, research work that will make the office more efficient when times are better,—such as developing efficient office methods, standards and practice,—or studies of projects which might be promoted when the time comes.

Each local architectural organization could do no better than to realize that charity begins at home, and devise ways and means of tiding over those who have been employed by their members and who have served them faithfully in more prosperous times. Such ways and means might be, in addition to the individual efforts just mentioned, the development of plans for the locality,—for the city or town and its environs; for improving the building codes and zoning ordinances; for investigating present conditions with a view to future needs and developments. The job is not done until we have made every effort to aid directly the less fortunate in our own ranks.

THE MAN NOBODY KNOWS

We have just had the embarrassing experience of learning that a term we have been using for years is wholly absurd, that there is no such thing. In the current issue of Scribner’s Magazine, Mr. Thomas Beer lists forty questions that were propounded to a group of twenty-five young men and women, all college graduates or undergraduates but one. Among such sticklers as “Who were the Piccolomini?” etc., there appeared one innocuous-looking challenge near the bottom of the list: “Name three living American architects.”

You will say, of course, that Mr. Beer added that one to comfort the young intelligentsia in their distressed ignorance. Perhaps he did; if so, his good intentions were wasted, for only four of the twenty-five were able to name three living American architects! And so we shall never be able to use the term “a well known architect” without appending the notation, “well known to his office force, his bill collectors, and his club cronies.”

Perhaps the other twenty-one didn’t know what an architect is? At any rate, Mr. Beer tells us that six left the answer blank. One boldly scratched the name of Christopher Wren as one of his three; four men and one woman jotted down Stanford White as their choice; another gave Graham, Anderson, PABST & White.

After all, there are only two goals in professional pursuit,—wealth and recognition. (If we leave out personal satisfaction in service.) We know, and can prove by the soles of the shoes of thousands of architects, that there is little money to be made in the profession, and now it seems that recognition is also denied.

One way of getting ahead is to bid for fame in another field. For instance, who has not heard of George Chappell, the writer, the satirist, the explorer of the alimentary canal? On the other hand, who hears constantly of George Chappell, the architect? (“Who wants to?” suggests Mr. Murchison.) Even Mr. Hoover would have gone down into posterity as an unknown engineer if he hadn’t got himself another job; and sometimes the Senate makes him wish he had. So, you see, it is possible to become prominent if you use the proper tactics. One might also marry an actress, or an heiress, or divorce one and marry the other, send a sketch of a “proposed” 200-story building to the newspapers, win a costume prize at the Beaux Arts Ball, write a book on “functionalism.” In less than no time, you will be front page news, you will be talked about at dinner tables, and who knows but what you might get a job out of it!

We are indebted to Mr. Beer for revealing the depths of obscurity to which all architects are sunk. It is well to know the truth, sorrowful though it may be. After all, there were others in the questionnaire who made out worse than the architects. Only one person knew who the Piccolomini were, only three knew who discovered the circulation of the blood, and not a soul could name five motor cars manufactured in England. So, you see, architects are much better known than the motor cars of England.

J. C. F.
COMMUNITY APARTMENTS

-A NEW DEVELOPMENT IN HOUSING

BY

FRANCIS S. ONDERDONK

The poverty which prevailed in Austria at the conclusion of the World War has been materially lessened since the establishment of the Austrian Republic by the activity of the new Social-Democratic government in Vienna, which inaugurated, in 1923, a housing scheme surpassing in scope all former activities of a similar kind. At the inception of the project the city was suffering from an acute housing famine that had prevailed since 1911 as well as a serious business depression. During and after the war private capital was not invested in building activities, and before the municipal development began, the architectural profession and the building trades were threatened with virtual extinction. Among the laboring classes slum conditions, caused by high rents and insufficient and congested housing facilities, were general. Drastic social and economic measures were necessary to insure civic existence, and the extensive development of community housing schemes, owned and maintained by the city, was instituted.

Planned to care pleasantly and economically for the needs of an entire community, by a single organization, the municipal “Wohnhausbau” has been evolved as a new type of multiple dwelling. Its size varies from a capacity of 22 to 1,600 flats, the size of the individual apartments varying with the location and size of the project. In plan, the group houses form quadrangles, enclosing garden courts which cover from 50 to 75 per cent of the plot area. Some of them approach the size of a public square, and, besides providing sunlight and air for the buildings, contain recreation facilities for adults and children. In effect the buildings enclose a park, separated from traffic, and provide a safe, pleasant and convenient playground for tenants.

Specifically, the Wohnhausbau is planned for communal living. Usually four dwellings are accessible from one stair, and corridors are ex-
MUNICIPAL APARTMENT HOUSES
IN THE SUBURBS OF VIENNA

Kindergarten wing in the Municipal Brunnerstrasse Apartment, Vienna

eluded as far as possible. Dwellings range in size from 430 to 603 square feet and are planned to provide the maximum of convenience in occupancy. The “Sandleiten,” situated on the outskirts of the city near the woods, may be taken as typical for the larger building groups. It contains 1,386 apartments divided as follows:

95 One-room apartments for bachelors
124 Flats, with living room and kitchen
775 Flats, with living room, kitchen and one small chamber
156 Flats with living room, kitchen and two small chambers
140 Flats with two living rooms and kitchen
73 Flats with two living rooms, kitchen and one small chamber
6 Flats with two living rooms, kitchen and two small chambers
14 Flats with three living rooms and kitchen
3 Flats with three living rooms, kitchen and one small chamber

The apartments contain toilets, but baths are provided in centrally located groups. In houses containing over 300 flats steam laundries are installed in the basement, and, in most cases, a group includes a building for the common deposit of refuse. Every effort has been made to raise the standard of living while still maintaining a necessary maximum in economy. To this end many house groups have free public libraries, lecture halls, gymnasiums, medical, dental clinics, and kitchen.

Entrance to the Sandleiten Apartments. Notice the courtyard beyond the gates

Municipal two-family houses. Willy Peterle, Architect. These houses are built in a garden city development on the outskirts of Vienna.
The Garden court of the Fuchsenfeldhof Apartments, Vienna. This is one of three courts in this group of buildings and contains, in addition to a wading pool, a children's playground.

(Below) The court in the Quarplätz Apartments.

Court in the Sandleiten Apartments

MUNICIPAL APARTMENTS IN THE SUBURBS OF VIENNA
The architect's drawing of a cafe and terrace in the Heiligenstadter Apartments. Karl Ehn, Architect

maternity bureaus, kindergartens, day nurseries and general recreation rooms for adults. Cooperative stores, post offices, restaurants, cafes, motion picture theaters and shops are incorporated in many of the groups, all tending toward the development of a self-sufficient community.

The buildings are designed to fill adequately the varied needs of the occupants, and the treatment has been frankly utilitarian. Cleanliness and economy of maintenance are important requirements in the design of such groups, and simple, durable materials have been used to fulfill them. Color has been extensively used in large areas; sculpture is used sparingly. The repetition of balconies and bay windows serves to characterize a set-back building design and to admit the maximum of air and sunlight to apartments.

Vienna has built, since 1923, 45,000 dwellings, providing needed shelter for some 200,000 people, most of them being a part of the large developments already described. The majority of them were designed by private architects and built by private contractors supervised by the Municipal Building Office. All were built on city-owned property, thus saving the cost of laying gas, water, electricity and sewer mains, and were constructed of materials either purchased or manufactured by the city. The rent of an apartment ranges from $1 to $3, and is used entirely for maintenance, no interest being placed upon the invested capital. The technical supervision and administration are controlled entirely by the city.

Over a period of seven years the municipal government has demonstrated the effectiveness of its housing scheme. The start, by building 25,000 apartments, offered immediate employment to individuals in dire circumstances. The successive completion of the projects improved at once the social and economic condition of many others. That the plan is a success is evidenced by the city's expanded program, which is committed to the completion of a total of 64,000 municipal dwellings by 1932. The essentials of the plan are simple; the effect has been an immediate solution of many involved civic problems; and both are worthy of serious architectural consideration in this country.

The Library in the Kreuzergasse-Thaliastrasse Apartments. A. Stockl, Architect. Notice the simplicity of the room and the distribution of daylight.
A portion of the Heiligenstädter Apartment group. This faces the interior court and is adjacent to one of the entrances to the group.

Entrance and center facade from the street of the Heiligenstädter Apartments. (See the cut on page 43 for a view of the interior court.) Below are examples of a drying room and laundry that are typical of the communal services of these apartment groups.

MUNICIPAL APARTMENTS IN THE SUBURBS OF VIENNA
OFFICE BUILDING AND MUSEUM
FOR
THE WORCESTER PRESSED STEEL CO.
WORCESTER, MASSACHUSETTS
STEEL and glass are the essential and practically the only materials used for the exterior of this building, designed to house the administrative offices of the Worcester Pressed Steel Company. It is entirely fitting that the exterior of this building should be made to express its purpose through the use of the materials actually manufactured by the company. This fact accounts for a large amount of decorative steel detail used as frieze and cornice and around the main entrance. The entrance, door frame and grilles are of polished stainless steel. The decoration of this entrance was designed to exemplify methods of joining and working metal, as casting, stamping, forging, etc. The use of fairly large steel surfaces in certain portions detracts somewhat from the steely quality of the design. These surfaces might, except for the aluminum paint, easily be mistaken, from a distance, for stone. The ornamental forms seem to show a derivation from stone rather than essentially steel character. Any stone impression one may have from a distance is dissipated on closer scrutiny of the building. The structural steel columns are entirely exposed, and the structural members are joined with rivets with larger than standard size heads in order to emphasize the steel quality. The exterior was sandblasted and covered with several coats of aluminum bronze paint, and black was used for emphasis. (Continued on page 52)
WORCESTER PRESSED STEEL CO.
WORCESTER, MASSACHUSETTS
J. D. LELAND & COMPANY
ARCHITECTS AND ENGINEERS
The building also houses a museum in which the progress of steel from the early craftsmanship to the modern machine production, exemplified in an automobile chassis, is traced. It was thought that for the display of the armor and mediaeval steel-work, the architectural treatment of the room should be reminiscent of the architecture of the times, and therefore the room is vaulted in a Gothic manner. The museum vaulting is in imitation Caen stone, and at the end of each nave is a rose window in stained glass. The floor is of large tile laid in a random ashlar pattern. Perhaps it would be possible to exhibit these things with equal effectiveness in a room very simply designed in flat steel which would be consistent with the modern use of steel and glass in the exterior.

The building is of mill construction internally faced with structural steel and glass. The walls are almost entirely of glazed steel sash set in two planes for effect. The sash is joined to the structural steel simply and efficiently. The office portions of the building are typical of common practice. The entrance lobby is in linen-fold paneling, with a rough-textured plaster ceiling and patterned tile floor laid on a steel deck.

The building is an outstanding achievement in the use of modern materials in the most effective way, and will undoubtedly have its effect on the future design and efficiency of buildings.
WORCESTER PRESSED STEEL CO.
WORCESTER, MASSACHUSETTS
J. D. LELAND & COMPANY
ARCHITECTS AND ENGINEERS
THE VAULTED ARMORY.
IT HOUSES A COMPLETE EXHIBIT OF MEDIEVAL METAL ART CRAFT.

WORCESTER PRESSED STEEL CO.
WORCESTER, MASSACHUSETTS
J. D. LELAND & COMPANY
ARCHITECTS AND ENGINEERS

THE MAIN ENTRANCE (BELOW)
THE DOOR FRAME AND GRILLES ARE POLISHED STEEL. THE ARCHITRAVE IS WROUGHT IRON.

Photos by Paul J. Weber
ENGLISH COTSWOLD HOUSES
FROM PHOTOGRAPHS
BY
H. ROSSITER SNYDER

THE ENTRANCE TO A TWELFTH CENTURY INN AT BROADWAY
GROUP HOUSES IN THE VILLAGE OF BIBURY, OXFORDSHIRE

A 14th CENTURY HOUSE AT BIBURY, OXFORDSHIRE
A ROUGH TEXTURED STONE COTTAGE AT LOWER SLAUGHTER, OXFORDSHIRE

DRESSED STONE LAID IN ALTERNATING COURSES AT BIBURY, OXFORDSHIRE
THE UTMOST IN SIMPLICITY. A ROUGH STONE COTTAGE AT BURFORD, OXFORDSHIRE

AN UNUSUAL VARIATION FROM THE COTSWOLD TYPE. BURFORD, OXFORDSHIRE
CLIMBING VINES AND BORDER GARDENS GIVE THE ULTIMATE TOUCH OF AGE AND MELLOWNESS TO COTSWOLD COTTAGES

A LATE PERIOD TOWN HOUSE IN THE COTSWOLD VILLAGE OF BURFORD, OXFORDSHIRE
A DOVE-COTE ON THE VILLAGE SQUIRE'S ESTATE AT BIBURY, OXFORDSHIRE

A WALLED-UP DOOR OF THE ANCIENT ALMS-HOUSE OF BURFORD, OXFORDSHIRE

UNDERNEATH A STONE TILE ROOF. EACH STONE IS DRILLED AND PEGGED TO PREVENT SLIPPING
HOUSE OF LOCKWOOD BARR, ESQ.
PELHAM, NEW YORK

ELECTUS D. LITCHFIELD
ARCHITECT
SECOND FLOOR PLAN

FIRST FLOOR PLAN

HOUSE OF LOCKWOOD BARR, ESQ.
PELHAM, NEW YORK
ELECTUS D. LITCHFIELD
ARCHITECT
HOUSE OF LOCKWOOD BARR, ESQ.
PELHAM, NEW YORK
ELECTUS D. LITCHFIELD
ARCHITECT
The house was originally planned with a straight stair, running parallel to the hallway between the living room and the dining room, at right angles to the main entrance to the house. While the house was under construction, Mr. Litchfield prepared a study showing an interesting circular stairway carried up through the second floor into a little dome in the attic. The revision was approved by the owner, and the change was made with the excellent result shown opposite.
(LEFT) SECOND FLOOR STAIR LANDING

(RIGHT) FIRST FLOOR HALL AND STAIRS

HOUSE OF LOCKWOOD BARR, ESQ. PELHAM, NEW YORK
ELECTUS D. LITCHFIELD ARCHITECT
Richard Averill Smith

VESTIBULE

HOUSE OF LOCKWOOD BARR, ESQ.
PELHAM, NEW YORK

ELECTUS D. LITCHFIELD
ARCHITECT
THE WOMEN’S CLUB
RIDGEWOOD, N. J.

GEORGE S. KOYL
OF RICH, MATHESIUS & KOYL,
ARCHITECT
THE WOMEN'S CLUB
RIDGEWOOD, N. J.

GEORGE S. KOYL
OF RICH, MATHESIUS & KOYL,
ARCHITECT
VIEW FROM STREET

VIEW FROM GARDEN

THE WOMEN'S CLUB
RIDGEWOOD, N. J.

GEORGE S. KOYL
OF RICH, MATHESIUS & KOYL,
ARCHITECT
THE WOMEN'S CLUB
RIDGEWOOD, N. J.

GEORGE S. KOYL
OF RICH, MATHESIUS & KOYL, ARCHITECT
FIREPLACE IN LOUNGE. AN ORIGINAL, EARLY MANTEL

THE WOMEN’S CLUB
RIDGEWOOD, N. J.

GEORGE S. KOYL
OF RICH, MATHESIUS & KOYL,
ARCHITECT
THE WOMEN'S CLUB
RIDGEWOOD, N. J.

ORIGINAL, EARLY MANTEL
AT ONE END OF LOUNGE

SOCIAL ROOM

GEORGE S. KOYL
OF RICH, MATHESIUS & KOYL,
ARCHITECT
SCULPTURE FOR A MODERN BUILDING
EXECUTED BY DAVID EVANS, SCULPTOR

PLASTER CEILING DECORATIONS IN THE VESTIBULE OF A BUILDING AT BROADWAY AND 38th STREET, NEW YORK. ELY JACQUES KAHN, ARCHITECT
SCULPTURE BY DAVID EVANS (Continued)

MODELS FOR BRONZE PANELS OF BAFFLE SCREEN, CITY BANK FARMERS' TRUST BUILDING, NEW YORK, CROSS & CROSS, ARCHITECTS

Photos: Dreyer

GARDEN FIGURES OF ROMAN DEITIES

DIANA HERCULES NEPTUNE OCEANUS VENUS APOLLO
COMMON BRICK HOUSE COMPETITION
CONDUCTED BY
The Common Brick Manufacturers’ Association of America

IN addition to the seven prize houses here illustrated, the eighth prize was awarded to Wyatt & Nolting, Baltimore, Md., for the residence of C. K. Wells, Jr.; the ninth prize to George M. Ewing, Philadelphia, Pa., for the “Crab Apple House”; the tenth prize to Harry Howe Bentley, Ravinia, Ill., for the residence of Henry Hammer.

The jury also selected the following entries as being worthy of special mention:

A. Harvey Stevenson, New York City
C. Oliver R. Johnson, Jamestown, N. Y.
D. Arnold W. Heath, Boston, Mass.
E. Louis Stevens, Pittsburgh, Pa.
F. Rodgers & Poor, New York City
G. R. B. Van Keuren, Birmingham, Ala.
H. Raymond J. Peavil, Hartford, Conn.
I. William B. Betts, Chicago, Ill.
J. David R. Williams, Dallas, Texas
K. David R. Williams, Dallas, Texas
L. Erling H. Pedersen, Philadelphia
M. Murchison & Gompert, New York City

Fraser Residence
Garratt Residence
Heath Residence
Steel Residence
Hewlett Harbor Residence
Wilde Residence
Armstrong Residence
McKie Residence
Clark Residence
Kendall Residence
Kiene Residence

N. Rodgers & Poor, New York City
O. William E. Linch, Columbus, Ohio
Hartford Residence

Rassapague House

The report of the jury says, in part: “It was gratifying to us to learn that the first prize, which was the unanimous choice of the jury by a secret ballot, is the home of an architect. On the contrary, we consider it extremely unfortunate that it was necessary to eliminate one or two homes which had gained momentary positions among the first ten for prizes, when we learned that they were constructions of brick veneer, quite contrary to the wording and intent of the competition announcement.

“If it were permissible to add a word of advice to some who may desire to enter other competitions of this kind, it would be that competitors present their material in an artistic manner, and that they put greater emphasis on the quality of photography.”

The jury consisted of Charles S. Schneider, Munroe W. Copper, Jr., and James H. Duthie.
First Prize: House of Mott B. Schmidt, Bedford, New York.
Mott B. Schmidt, Architect
Second Prize: House of Nelson T. Hayes, South Norwalk, Conn. Philip S. Graham, Architect

Second Floor Plan

First Floor Plan
Third Prize: Residence of W. Wallace Rowe, Cincinnati, Ohio. John Henri Deekin, Architect
Fourth Prize: Residence of William Bruce McConnel, Mt. Lebanon, Pa. Albert A. Tappe, Architect

Second Floor Plan

Third Floor Plan

First Floor Plan
Fifth Prize: Residence of D. K. Winton. Field & Jenkins, Architects
Sixth Prize: Residence of W. A. Kittridge, Evanston, Ill. A. Erwin Nicolai, Architect
Seventh Prize: Residence of A. F. Millet, Lake Forest, Ill., Russell S. Walcott, Architect

First Floor Plan

Second Floor Plan
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Canterbury Cathedral, Kent

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Incorporated 1923
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FOR THE SERVICE OF ARCHITECTS, ENGINEERS, DECORATORS, AND CONTRACTORS

The publications listed in these columns are the most important of those issued by leading manufacturers identified with the building industry. They may be had without charge unless otherwise noted, by applying on your business stationery to The Architectural Forum, 521 Fifth Ave., New York, or the manufacturer direct, in which case kindly mention this publication.

ACOUSTICS
R. Guastavino Co., 40 Court Street, Boston.

ASH HOISTS
Gillis & Georgeagan, Inc., 344 West Broadway, New York.

ASH HOISTS—TELESCOPIC
Gillis & Georgeagan, Inc., 344 West Broadway, New York.

BRICK

CEMENT
Henry Klein & Co., 25 Grand Street, Elmhurst, L. I., N. Y.

CARPETS

CONCRETE BUILDING MATERIALS
Concrete Steel Company, 2 Park Avenue, New York, N. Y.

CONSTRUCTION, FIREPROOF

CONSTRUCTION, STONE AND TERRA COTTA
Cowing Pressure Relieving Joint Company, 100 North Wells St., Chicago, Ill.

DOORS
The Kawneer Company, Niles, Michigan.

DOORS AND TRIM, METAL
The American Brass Company, Waterbury, Conn.

DOOR EQUIPMENT

DRAINAGE FITTINGS

EQUIPMENT

FLOORING

INSTRUMENTS

INSTRUMENTS

LIGHTING

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SELECTED LIST OF MANUFACTURERS' PUBLICATIONS—Continued from page 41

DUMBWAITERS

Sedgwick Machine Works, 151 West 15th St., New York, N. Y. Catalog and Service Sheets. Standard specifications, plans and prices for various types, etc. 48 x 64 ins., 60 pp. Illustrated. Catalog and pamphlets, 85 x 11 ins. Illustrated. Valuable data on dumbwaiters.

ELEVATORS—Continued.

Catalog and pamphlets, 85 x 11 ins. Illustrated. Important data on different types of elevators.

ELEVATORS


FIREPROOFING


Concrete Steel Company, 2 Park Avenue, New York, N. Y. Economical Fireproof Floors for Suburban Buildings. Folder, 4 pp., 85 x 11 ins. Illustrated.

Havemeyer Steel Joint. The Joint with the Twin-Tec Chords. Booklet, 24 pp., 85 x 11 ins. Illustrated.


Unibacker. The Tile That Binds. Folder, 85 x 11 ins. Illustrated.

Traffic Wall, Folder, 85 x 11 ins. Illustrated.

Meeting Every Need. Folder, 85 x 11 ins. Illustrated.

Natro Vitratile. Folder, 85 x 11 ins. Illustrated.

Shell Load Bearing Tile. Folder, 85 x 11 ins. Illustrated.

FLOORLIGHTING

National Terra Cotta Company, 230 Park Avenue, New York, N. Y. Terra Cotta—The Light Source. Booklet, 16 pp. Illustrated. Important work on an important item of equipment.

FLOOR HARDENERS (CHEMICAL)

Minwax Company, 11 West 46th Street, New York, N. Y. Concrete Floor Treatments, Folder, 44 x 11 ins. Illustrated.

Tooth Elevators, New York, Chicago, Los Angeles.


FLOORS—STRUCTURAL

Concrete Steel Company, 2 Park Avenue, New York, N. Y. Havemeyer Steel Joint. The Joint with the Twin-Tec Chords. Booklet, 24 pp., 85 x 11 ins. Illustrated.

Truscon Steel Co., Youngstown, Ohio.


FLOORING

Armstrong Cork Co. (Flooring Division), Lancaster, Pa.


Linoleum Layer's Handbook. 5 x 7 ins., 36 pp. Instructions for linoleum layers and others interested in learning most satisfactory methods of laying and taking care of linoleum.


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FLOORING—Continued
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Structural Gypsum Corporation, Linden, N. J.

FURNITURE
American Seating Co., 14 E. Jackson Blvd., Chicago, Ill.
Kittinger Co., 1893 Elmwood Ave., Buffalo, N. Y.

GLASS CONSTRUCTION
Iliffe Home Furnishings Co., Toledo, Ohio.

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Bryant Heater & Mfg. Co., 17825 St. Clair Ave., Cleveland, Ohio.

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Corto—The Radiator Qasic. Brochure, 5\4 ins., 16 pp. Illustrated. Data on hardware for houses in these styles.

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SELECTED LIST OF MANUFACTURERS' PUBLICATIONS—Continued from page 44

HEATING EQUIPMENT—Continued

THE Fulton Sylphon Company, Knoxville, Tenn. Sylphon Heating Specialties. Catalog No. 200, 192 pp., 3½ x 6¼ ins. Important data on heating.


How to Lock Out Air, the Heat Thief. Brochure, 48 pp., 5½ x 7¼ ins. Illustrated.

Janette Manufacturing Company, 556 West Monroe Street, Chicago.

Kewanee Boiler Corporation, Kewanee, Ill. Kewanee on the Job. Catalog, 8½ x 11 ins., 80 pp. Illustrated. Showing installations of Kewanee boilers, water heaters, radiators, etc. etc.

Catalog No. 78, 6 x 9 ins. Illustrated. Describes Kewanee Firebox Billers with specifications and setting plans.


S. T. Johnson Co., Oakland, Calif.


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Data on Plant Heating. Folder. 4 pp., 8½ x 11 ins. Illustrated. Industrial Heating. Folder. 4 pp., 8½ x 11 ins. Illustrated. Cables and radiators adaptable to decorative schemes.


Wilmot Castle Company, Union Trust Bldg., Rochester, N. Y.

Josam-Graver Incinerators. Folder, 4 pp., 8½ x 11 ins. Illustrated. Hospital Applications of Monel Metal. Booklet, 8½ x 11¼ ins., 16 pp. Illustrated. Gives types of equipment in which Monel Metal is used, reasons for its adoption, with sources of such equipment.

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Wilson Cypress Co., Palatka, Fla.
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Treynaud Laundry Machinery Co., Inc., 9 Park Place, New York City.
Laundry Machinery for Large Institutions. Loose-leaf booklet.
20 pp., 8½ x 11 ins. Illustrated.
Laundry Machinery for Small Institutions. Loose-leaf brochure.
50 pp., 8½ x 11 ins. Illustrated.
Accessories Equipment for Institutional Laundries. Leather bound
book. 50 pp., 8½ x 11 ins. Illustrated.
Dry Cleaning Equipment for Institutional Purposes. Brochure.
30 pp., 8½ x 11 ins. Illustrated.

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The Frink Co., Inc., 369 Lexington Ave., New York, N. Y.
Catalog 453, 8½ x 11 ins., 46 pp. Photographs and scaled cross-
sections. Specialized bank lighting, screen and partition reflec-
tors, double and single desk reflectors, and Polaralite Signs.

Gleason Tichurst Glass Company, 71 West 44th St., New York, N. Y.
Fragment of Celestialite. Booklet, 24 pp., 7 x 10 ins. Illustrated.
Data on lighting for offices, schools, hospitals, etc.

The Pergola Catalog. 7½ x 10 ins., 64 pp. Illustrated. Contains
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Cutler Mail Chute Model F. Booklet, 4 x 9¼ ins., 8 pp. Illus-
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MILL WORK—See also Wood

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Clay & Sons, James S., 524 Franklin St., Chicago, III. Catalog J. 8½ x 10½ ins., 700 pp. Illustrated. Shows a full line of steam, gas and water works supplies.


National Tube Co., Frick Building, Pittsburgh, Pa. National products. Booklet 22. Corrosion of Hot Water Pipe, 8½ x 11 ins., 24 pp. Illustrated. In this bulletin is summed up the most important research dealing with hot water systems. The text material consists of seven investigations by authorities on this subject.

National Bulletin No. 3. The Protection of Pipe Against Internal Corrosion, 8½ x 11 ins., 10 pp. Illustrated. Discusses various causes of corrosion, and details are given of the deactivating and desalting systems for eliminating or retarding corrosion in hot water supply lines.

National Bulletin No. 25. "National" Pipe in Large Buildings. 8½ x 11 ins., 88 pp. This bulletin contains 254 illustrations of prominent buildings of all types, containing "National" Pipe, and considerable engineering data of value to architects, engineers, etc.

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Duriron Company, Dayton, Ohio.

Duriron Acid, Alkali and Rust-Proof Drain Pipe and Fittings.

Kohler Company, Kohler, Wis.

C. A. Dunham Co., 450 East Ohio Street, Chicago, Ill.

Truscon Steel Company, Youngstown, Ohio.

John Van Range Company, Cincinnati.

Concrete Steel Company, 2 Park Avenue, New York, N. Y.

Kalman Steel Company, Chicago, Ill.


Plumbing Suggestions for Industrial Plants. Catalog, 4 x 6 1/4 ins., 34 pp. Illustrated.

Planning the Small Bathroom. Booklet, 5 x 8 ins. Discusses planning bathrooms of small dimensions.

Helsinki Roofing Co., 1925 Second Avenue, Denver, Colo.

Plymouth-Shingle Tile with Sprocket Hips. Leaflet, 8 1/2 x 11 ins. Illustrated. Shows use of English shingle tile with special hips.

Italian Promenade Floor Tile. Folder, 2 pp., 8 1/2 x 11 ins. Illustrated. Floor tiling adapted from that of Davanzati Palace.

Mission Tile. Leaflet, 8 1/2 x 11 ins. Illustrated. Tile such as are used in Italy and Southern California.

Johns-Manville Corporation, New York.


Milcor Steel Co., Milwaukee.

Milcor Architectural Sheet Metal Guide. Booklet, 72 pp., 8 1/2 x 11 ins. Illustrated. Metal tile roofing, skylights, ventilators, etc.

Milcor Sheet Metal Handbook. Brochure, 138 pp., 8 1/2 x 11 ins. Illustrated. Deals with rain-carrying equipment, etc.

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Structural Gypsum Corporation, Linden, N. J.

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Milcor Architectural Sheet Metal Guide. Booklet, 72 pp., 8 1/2 x 11 ins. Illustrated. Metal tile roofing, skylights, ventilators, etc.

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Kewanee Private Utilities, 424 Franklin St., Kewanee, Ill.

Specification Sheets 746 x 1054 ins., 40 pp. Illustrated. Detailed drawings and specifications covering water supply and sewage disposal systems.

Kewanee Private Utilities, 424 Franklin St., Kewanee, Ill.

Service Sheet No. 2. Specifications and Details of Design and Construction for Gypsum Long-Span Pre-Cast Roofs. Folder, 8 1/2 x 11 ins. Illustrated.

Service Sheet No. 4. Specifications and Details of Design and Construction for Gypsum Short-Span Pre-Cast Roofs. Folder, 8 1/2 x 11 ins. Illustrated.

Service Sheet No. 4. Specifications and Details of Design and Construction for Gypsum Pre-Cast Assembled Slab Roofs. Folder, 8 1/2 x 11 ins. Illustrated.

ROOFING

Federal Cement Tile Co., 608 S. Dearborn Street, Chicago.

Catalogue and Roof Standards. Booklet, 36 pp., 8 1/2 x 11 ins. Illustrated. Describes Weatherproof Concrete Insulating Roof Slabs, including complete data, weights and dimensions, specifications and detail drawings. Also includes complete information on Weatherproof Nailing Concrete Roof Slabs for use with ornamental slate or copper covering. The catalog is profusely illustrated and contains also a partial list of uses.

Exempt Document Theaters and Theater Roofs. Brochure, 16 pp., 8 1/2 x 11 ins., Illustrated. Contains views of theaters designed by some of the country's leading architects.

Federal Interlocking Tile and Glass Tile. 4 pp., 8 1/2 x 11 ins. Illustrated and describes complete roof or precast concrete slabs required for covering.

G. & C. Athletic Clothing, Inc., 504 West Broadway, New York.

Structural Gypsum Corporation, Linden, N. J.

Modern Concrete Reinforcement. Booklet, 32 pp., 8 1/2 x 11 ins., 12 pp.

The New Book of Roofs. Brochure, 138 pp., 8 1/2 x 11 ins. Illustrated. Devised Type B Jennings Sewage Ejector for handling Un-screened sewage and raising it from basements below sewer level.

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American Brass Co., The, Waterbury, Conn.

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1050 West 2nd Ave. Medicine Lodge, Kans.

Sales offices in: New York - Chicago - Toledo - St. Louis
San Francisco - Kansas City - Philadelphia
SELECTED LIST OF MANUFACTURERS' PUBLICATIONS—Continued from page 52

SHELVING-STEEL

STEEL PRODUCTS FOR BUILDING
Bethlehem Steel Company, Bethlehem, Pa.

STONE, BUILDING
Indiana Limestone Company, Bedford, Ind.

STORE FRONTS
Brasco Manufacturing Co., 5025-35 South Wabash Ave., Chicago, Ill.

TELEPHONE SERVICE ARRANGEMENTS
All Bell Telephone Companies. Apply nearest Business Office, or American Telephone and Telegraph Company, 195 Broadway, New York.

TERRA COTTA
National Terra Cotta Society, 19 West 44th St., New York, N. Y.

TIMBREL TILE VAULTS
R. Guastavino Co., 40 Court Street, Boston.

TILE, STRUCTURAL CLAY

TIRES

TRUSSES
McKeown Bros. Company, 523 South Keeler Avenue, Chicago.

VALVES
Craie Co., 836 S. Michigan Ave., Chicago, Ill.

VENETIAN BLINDS
Colombia Mills, 225 Fifth Avenue, New York.

REQUEST FOR CATALOGS
To get any of the catalogs described in this section, put down the title of the catalog desired, the name of the manufacturer and send coupon to THE ARCHITECTURAL FORUM, 521 Fifth Avenue, New York.
Suitable, from every angle, for sills, stools, floors, treads and base

COLOR, durability, economy of upkeep, appearance—consider Alberene Stone from every angle and you will find it meets your requirements.

Its natural light blue-grey tone harmonizes with practically any color scheme.

Sills, exposed to extreme changes of weather, do not chip, scale or split, because the stone is impervious to moisture. Selected, hard Alberene Stone has proven its lasting qualities under severe daily use for stair-treads and landing platforms in schools and public buildings.

Its freedom from staining and its ease of cleaning make for economy particularly since the stone does not show its age. The brochure "Architectural Alberene" shows actual color reproductions of commonly used building stones in conjunction with Alberene, also gives pertinent facts as to the known durability of the stone. We will send you a copy of the brochure, gladly.

ALBERENE STONE COMPANY, 153 West 23rd Street, New York
Branches at Chicago ; : Pittsburgh ; : Cleveland ; : Boston ; : Philadelphia
Richmond ; : Newark, N. J. ; : Rochester ; : Washington, D. C.
Quarries and Mills at Schuyler, Virginia

ALBERENE STONE
THE NATURAL STONE OF DIVERSIFIED UTILITY

Suitable, from every angle, for sills, stools, floors, treads and base

COLOR, durability, economy of upkeep, appearance—consider Alberene Stone from every angle and you will find it meets your requirements.

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Quarries and Mills at Schuyler, Virginia

ALBERENE STONE
THE NATURAL STONE OF DIVERSIFIED UTILITY
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<td>American H. S. Fans</td>
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<td>Duriron Company</td>
<td>Dayton, Ohio.</td>
<td>Produces exhaust fans.</td>
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<td></td>
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| | | Specification Form for Acid-proof Exhaust Fans. Folder, 8 x 10¼ ins. |}

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<td>1002 Engineers’ Building, Cleveland.</td>
<td>Produces Portland cement.</td>
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<td>Booklet, 32 pp., 8½ x 11 ins. Illustrated.</td>
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<tr>
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<td></td>
<td>Waterprooffing Studia. Folder, 4 pp., 8½ x 11 ins. Illustrated.</td>
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<tr>
<td></td>
<td></td>
<td>Transparency Transparencies for All Masonry Walls and Surfaces. Folder, 4 pp., 8½ x 11 ins. Illustrated.</td>
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<td>Data Sheet on Membrane Waterproofing. Folder, 4 pp., 8½ x 11 ins. Illustrated.</td>
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| | | Tock Brothers, New York, Chicago, Los Angeles. |}

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<td>Produces weatherstrips.</td>
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<td>The Only Weatherstrip with a Cloth to Metal Contact. Booklet, 16 pp., 8½ x 11 ins. Illustrated. Data on an important type of weather stripping.</td>
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<td>William Bayley Co.</td>
<td>147 North Street, Springfield, Ohio.</td>
<td>Produces window glass.</td>
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<td></td>
<td>List of Parts for Assembly. Booklet, 8½ x 11 ins., 16 pp. Full list of parts for different units.</td>
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| | | Detroit Steel Products Co., 2250 E. Grand Boulevard, Detroit. |}

#### WINDOWS, CASEMENT—Continued

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<td>Lupton Creates a Complete Casement. Folder, 8½ x 11 ins.</td>
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<td>Illustrated data on a casement providing for screens, shades and draperies.</td>
</tr>
<tr>
<td>Lupton Heavy Casements. Detail Sheet No. 101, 4 pp., 8½ x 11 ins.</td>
<td></td>
<td>Illustrated. Shows typical installations, detail drawings, construction details, blue-prints if desired. Describes Air-way Multi-fold Window Hardware.</td>
</tr>
<tr>
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<td>List of Parts for Assembly. Booklet, 8½ x 11 ins., 16 pp. Full list of parts for different units.</td>
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<td>A Rain-shed and Ventilator of Glass and Steel. Pamphlet, 4 pp., 8½ x 11 ins. Describes housing details.</td>
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<tr>
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<td></td>
<td>Waterproothing Statistics. Folder, 4 pp., 8½ x 11 ins. Illustrated.</td>
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<tr>
<td></td>
<td></td>
<td>Lupton Heavy Casements. Catalog 12-A. Booklet, 48 pp., 8½ x 11 ins. Illustrated and describes windows suitable for manufacturing buildings.</td>
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</table>
| | | Detroit Steel Products Co., 2250 E. Grand Boulevard, Detroit. |}

#### WOOD—See also Millwork

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<th>Address</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td>American Walnut. Booklet, 7 x 9 ins., 46 pp. Illustrated. A very useful and interesting little book on the use of Walnut in Fine Furniture with illustrations of pieces by the most modern furniture makers from the time of the Renaissance down to the present.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>American Walnut for Interior Woodwork and Paneling. 7 x 9 ins. Illustrated. Discusses interior woodwork, giving cuts, specifications, and cost of a specimen room, the dimensions, and cost of a specimen room in Walnut, Walnut Doors, finishes, comparative tests of physical properties and the advantages of American Walnut for woodwork.</td>
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| | | Wood Conversion Company, Clifton, Minn. |}

#### WOOD—See also Millwork

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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>House Comfort that Pays for Itself. Brochure, 32 pp. 5½ x 7¾ ins. Illustrated.</td>
</tr>
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</table>
| | | Minwax Company, 11 West 42nd St., New York. |}

### WOOD FINISH

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<td>Produces minwax flat finish. Booklet, 4 pp., 8½ x 11 ins. Illustrated. Deals with a penetrative, preservative stain finish giving stain and soft wax effect.</td>
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Galleries of Rare Beauty

Whether you are interested in fine antiques... whether you are interested in art objects from the art centers of Europe... or whether Newcomb-made replicas of fine things intrigue your fancy... your visit to the Newcomb Galleries should prove most profitable, for here in a score of exhibition rooms is one of the largest and most varied collections of beautiful things available under one roof in New York.

French Provincial Woven Wood Fence

... an investment in fence satisfaction

Through long years of service, protection, and lasting beauty, the French Provincial Woven Wood Fence will pay steady dividends undiminished by time or weather. The palings of live young chestnut saplings, woven together with Copperweld wire, need no paint to enhance their natural beauty... therefore your first cost is the last. In full five-foot sections ready to erect.

ROBERT C. REEVES CO.
Established 1860

101 Park Avenue New York City
The wide use of terra cotta may be said to be due to the excellence of the material itself, its comparatively moderate cost, and the low cost of its upkeep, since whether it be used without or within, a simple washing with soap and water will restore terra cotta to its pristine freshness. Then again, this material is extremely useful for buildings which are to be floodlighted, and some manufacturers of floodlighting equipment maintain that it is considerably more economical to light a structure of terra cotta than a similar building of other materials light in color. This brochure deals with the extensive use of terra cotta for public buildings of different kinds,—state capitols, court houses, office structures, public libraries, post offices, city halls, and school buildings of many kinds. One of the most interesting illustrations in the brochure shows the highly architectural use of terra cotta for the interior of the Pan-American Union building in Washington, where the material is much used for facing walls.

GOODYEAR TIRE & RUBBER CO., Akron, O. "Rubber Flooring News; Vol. II, No. 6."

Probably with a view to stimulating the imagination of architects and interior decorators, this widely known firm of manufacturers of rubber flooring materials publishes a monthly journal which in addition to giving valuable data and suggestions on the use of rubber flooring includes illustrations of new patterns or designs in which the material is to be had, and also illustrations of interiors for which the flooring is ideally suited. The particular issue of the Rubber Flooring News under consideration contains several pages of diagrams and views of many interiors, among them the lobby of the American Furniture Mart, Chicago; entrance hall of the Hollywood Terminal Building; auditorium of the Hartman Furniture Co., Chicago; corridor of the Lakeview Building, Chicago; offices of the Cotter Warehouse Co., Akron, O.; smoking room of the S. S. President Adams, recently remodeled and reconditioned by the Bethlehem Shipbuilding Corporation; and a number of other interiors of various types. This useful little publication, which can probably be had for the asking, is valuable to architects and interior decorators because it keeps them informed as to the latest designs or patterns in which these excellent flooring materials are to be had and different ways of using them.


Several times mention has been made in The Forum of these booklets being issued by the Ludowici-Celadon Company, the requirements at issue with special reference to roofs of tile. Of course tiles have been used for ages in many countries for roofs of buildings of all types, and there exists a vast wealth of architecture to serve as a basis for illustration; and when selection is to be made by a distinguished architect of certain items from this wealth, the result is sure to be interesting and helpful to architects and students of architecture. The particular issue of The Tuileries Brochures to prompt these sentences is that for September, 1900, which deals with "Urban Architecture in Buckinghamshire." Text by Francis Bendall is illustrated from photographs by F. R. Yerbury, of many charming old houses and groups of buildings in this English county. Some of the buildings are of brick, while others are of a half-timbered construction, in which brick plays an important part. One page gives an illustration of a beautiful although extremely simple "door and bay window," the composition suggesting that the grouping is or may have been that of a shop front, with the bay used as a show window. The opposite page gives measured drawings from which it would be easy to reproduce the arrangement for present-day use. The Brochures are produced, the title page says, "for distribution among the members of the architectural profession," and the various issues of a year bound in book form would make an interesting addition to the library of any architect or anyone else interested in architectural design.

COMMON BRICK MANUFACTURERS’ ASSOCIATION, Cleveland. “Specifications for Brickwork.”

The appearance of a wall built of brick depends largely upon the use of an attractive “bond” and that of an appropriate joint, and it is astonishing what an excellent architectural effect can be had with common brick when such work has been carefully designed and use made perhaps of color in the joints, which gives the entire wall life and vitality. The actual utility of such a wall,—its wearing quality,—of course depends upon its being laid or built up in the proper way. This useful brochure, to begin with, illustrates quite a number of bonds and joints, and it then illustrates the correct method of building walls in which these different bonds and joints are used. It also deals with what is known as “skirted” brickwork and illustrates seven different patterns by which may be achieved. The booklet is likely to be useful when estimate is being made of the number of bricks required for a given project, and the amount of labor needed for laying the brick up into a wall.

STEDMAN RUBBER FLOORING COMPANY, South Braintree, Mass. "Ray-Proof Rubber."

Architects who plan and design hospitals as well as the physicians and surgeons who operate them know the value of the X-ray and the necessity of providing most carefully for its proper use. Scarcely anything has contributed more to the safety of medicine or surgery than the discovery that has been so great effect upon the practice of either than the discovery of the X-ray during the latter part of the nineteenth century. It revolutionized the methods of selecting the organs of the body and examination of the internal organs and anatomy of a patient without exploratory surgical procedure. The discovery of the penetrating power of X-rays has also led to the realization that it is necessary to protect occupants of rooms adjoining the X-ray department from their deleterious effects. To afford such protection, the method at first principally used was to cover the walls, floors, and ceilings of the X-ray room with sheet lead. Later, the coating of the walls and ceilings with a mixture of barium sulphate and ordinary wall plaster was commonly adopted. The booklet is likely to be of value in absorbing the noise of the machine.
We give you full credit for the window success of our building

Bayley Steel Products include the following:
- Pivoted Windows
- Projected Windows
- Continuous Windows
- Detention Windows
- Prison Windows
- Airport Doors
- Tubular Doors

SO writes John W. Higgins, president of the Worcester Pressed Steel Company, in a letter stating how well pleased he is with Bayley Steel Windows. His experience is typical of other Bayley users. It speaks a satisfaction that is as gratifying to us as it must be to the growing number of leading architects and contractors who recommend Bayley.

The building in question is an all-steel structure hailed throughout the country as a striking innovation in industrial design. Bayley Steel Windows form the walls, being attached directly to the steel columns. The superiorities of Bayley window design, and the fact that the flat T bar construction lent itself so well to the architectural harmony of the building, were important considerations in choosing Bayley windows. Incidentally, in all door openings Bayley Tubular Steel Doors, noted for their efficiency, durability and good appearance, are used.

Bayley engineering cooperation, thorough and helpful, is always an added assurance of entire satisfaction. It is available in following through to the final completion of every job, and not only in preparing plans and in writing specifications. It is a service that appeals strongly to architects and construction managers as well as to owners. . . . The William Bayley Company, Springfield, Ohio.
THE WHEELER, OSGOOD COMPANY, Taroma. "The Doors that Stand the Famous Water Test."

The "sticking" of doors, which annoys so many housekeepers, is due of course to the action on the wood of the doors of the heat or the moisture (or lack of moisture) which prevails in the atmosphere. Because of its very nature, wood contracts when brought into contact with the dry heat, such as usually prevails in American homes, and it expands with moisture; and when the door is made of solid wood, this contraction or expansion affects the entire door. These conditions account for the widespread use of "built-up" or "laminated" doors, constructed of several thicknesses or "plies" of wood so arranged together that contraction, expansion, or warping is impossible. This brochure is issued in the interests of the well known Laminex doors. It says: "This inherent property of Laminate scientifically neutralized. Laminex construction, developed after many years of research by the largest manufacturer of doors in the world, has solved the problem. Laminate doors are built up on cores of spandrel sections has not been broadly developed because of the amount of handwork involved in creating designs. Up to the present time, the use of stone in this manner in spandrel sections has not been broadly developed because of the amount of handwork involved in creating designs. After much experimentation, the Indiana Limestone Company has been manufacturing commercial mechanical refrigerating equipment for 50 years. So success-proof, regardless of climate conditions. So success-proof, regardless of climate conditions. The accentuation of vertical lines in the present-day architecture of tall buildings has been gained in part by the suppression of horizontals. This type of design expresses logically the underlying structure, and it is, therefore, reasonable to expect this development to continue.

INDIANA LIMESTONE COMPANY, Bedford, Ind. "LCO Spandrels." Their design and manner of building them.

Members of an architect's designing staff as well as those concerned with structure will be interested in a series of sheets suggesting designs for various parts of buildings and then showing by sections and other drawings their actual construction. One set of these sheets deals chiefly with the design and construction of spandrels, particularly those of stranded sections. "The accentuation of vertical lines in the present-day architecture of tall buildings has been gained in part by the suppression of horizontals. This type of design expresses logically the underlying structure, and it is, therefore, reasonable to expect this development to continue. The submergence of horizontals can be gained in several ways, one of which is the introduction of pattern in detail contrasting with the plain cemented surfaces of spandrels. Up to the present time, the use of stone in this manner in spandrel sections has not been broadly developed because of the amount of handwork involved in creating designs. After much experimentation, the Indiana Limestone Company has been manufacturing commercial mechanical refrigerating equipment for 50 years. So success-proof, regardless of climate conditions. So success-proof, regardless of climate conditions. The accentuation of vertical lines in the present-day architecture of tall buildings has been gained in part by the suppression of horizontals. This type of design expresses logically the underlying structure, and it is, therefore, reasonable to expect this development to continue. The submergence of horizontals can be gained in several ways, one of which is the introduction of pattern in detail contrasting with the plain cemented surfaces of spandrels. Up to the present time, the use of stone in this manner in spandrel sections has not been broadly developed because of the amount of handwork involved in creating designs. After much experimentation, the Indiana Limestone Company has been manufacturing commercial mechanical refrigerating equipment for 50 years. So success-proof, regardless of climate conditions. So success-proof, regardless of climate conditions. The accentuation of vertical lines in the present-day architecture of tall buildings has been gained in part by the suppression of horizontals. This type of design expresses logically the underlying structure, and it is, therefore, reasonable to expect this development to continue.
HARKNESS MEMORIAL QUADRANGLE • YALE UNIVERSITY • JAMES GAMBLE ROGERS • ARCHITECT

Minwax is the name of a complete service for waterproofing, preserving and beautifying wood and masonry. See Sweet's.
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It was recognized in planning the Nurses’ Home for the Brownsville Hospital at Brownsville, Penna., that electricity had a most important part to play in the future usefulness of the building. For here was to be the home of a group of hard-working nurses. There must be home-like surroundings to assure complete relaxation. Every facility for recreation and leisure must be provided.

This indicated the need for a wiring installation that would be particularly fitted to the conditions. Suggestions from the wiring and lighting bureau of the local electric service company helped materially in reaching a happy solution of the problem.

Their recommendations on the use of light, both for decorative and utilitarian purposes, were based on a sound understanding of the part light can play in providing welcome comfort and convenience. Their knowledge of trends in the ever widening applications of electricity suggested standards for a wiring installation that would be adequate for both present and future requirements.

This collaboration with the lighting and wiring bureau resulted in an installation that provides for 1.75 watts per square foot. Lighting can be increased to 3.50 watts per square foot or by 100 per cent, without change in the wiring. On the panelboards one additional circuit for future use is provided for every five active circuits. There are lighting outlets in clothes presses and over each shower stall. Plenty of convenience outlets are available in bedrooms, recreation rooms and corridors. Electric cooking and electric laundry facilities are provided.

Whatever upward trend there may be in the use of electricity and in requirements for light, the Brownsville Nurses’ Home will be able to keep pace with increasing standards at minimum cost.

For information about trends in lighting standards and about adequate wiring call on the lighting bureau of your local electric service company or write direct.
A NEW FLATTER GLASS—AT THE OLD PRICE

IT'S hard to believe, when you examine the two flat, brilliant surfaces of this new glass and note their new freedom from waviness, streakiness, and other old-time imperfections—that such remarkable window glass costs no more than the ordinary kind. You immediately picture the finer, clearer windows it will make—and the saving of time for the glazier—because there's no "wrong" side to watch for. But if you haven't yet given yourself that experience—have the Pittsburgh Plate Glass Company's warehouse in your locality provide you with samples. And write for a new booklet showing the new way this surprising glass is made. Address Pittsburgh Plate Glass Company, Grant Building, Pittsburgh, Pa.
ARCHITECTS and builders who are interested in modern materials have been using Formica for wainscoting, store front bulkheads and the interior of elevator cabs, among many uses.

There are twenty different colors of a high degree of novelty and attractiveness—solid colors like jet black, green, red and so on; wood finishes, marble patterns, tapestry and art moderne effects.

Formica has an extremely permanent finish. It is almost inert chemically and is not deteriorated by oxidization, rot or rust. It is very easy to keep clean.

Therefore it provides an unusually handsome finish which will require no maintenance for a long period.

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"A Temple to the God of Science"

"...It is the new Research Building, equipped to house 1,000 engineers. It could have been built for $400,000 but is costing $1,500,000. And why, pray, the extra $1,000,000? It is expended to make as just and lovely a temple to the god of science as devoted hands have reared to other gods in other ages. Engineering research is the chief business of this company. Frames for motor cars, pipes for oil fields, pressure vessels—these are by-products."

The engineering critics of the A. O. Smith Corporation chose Westinghouse Elevators for their building. Could such minds tolerate anything but the finest in elevator equipment?

[The above quotations are taken from an article by Mr. Stuart Chase, appearing in the November issue of FORTUNE]

Westinghouse Elevators Are the Logical Highways of Modern Architecture

Westinghouse Electric Elevator Company