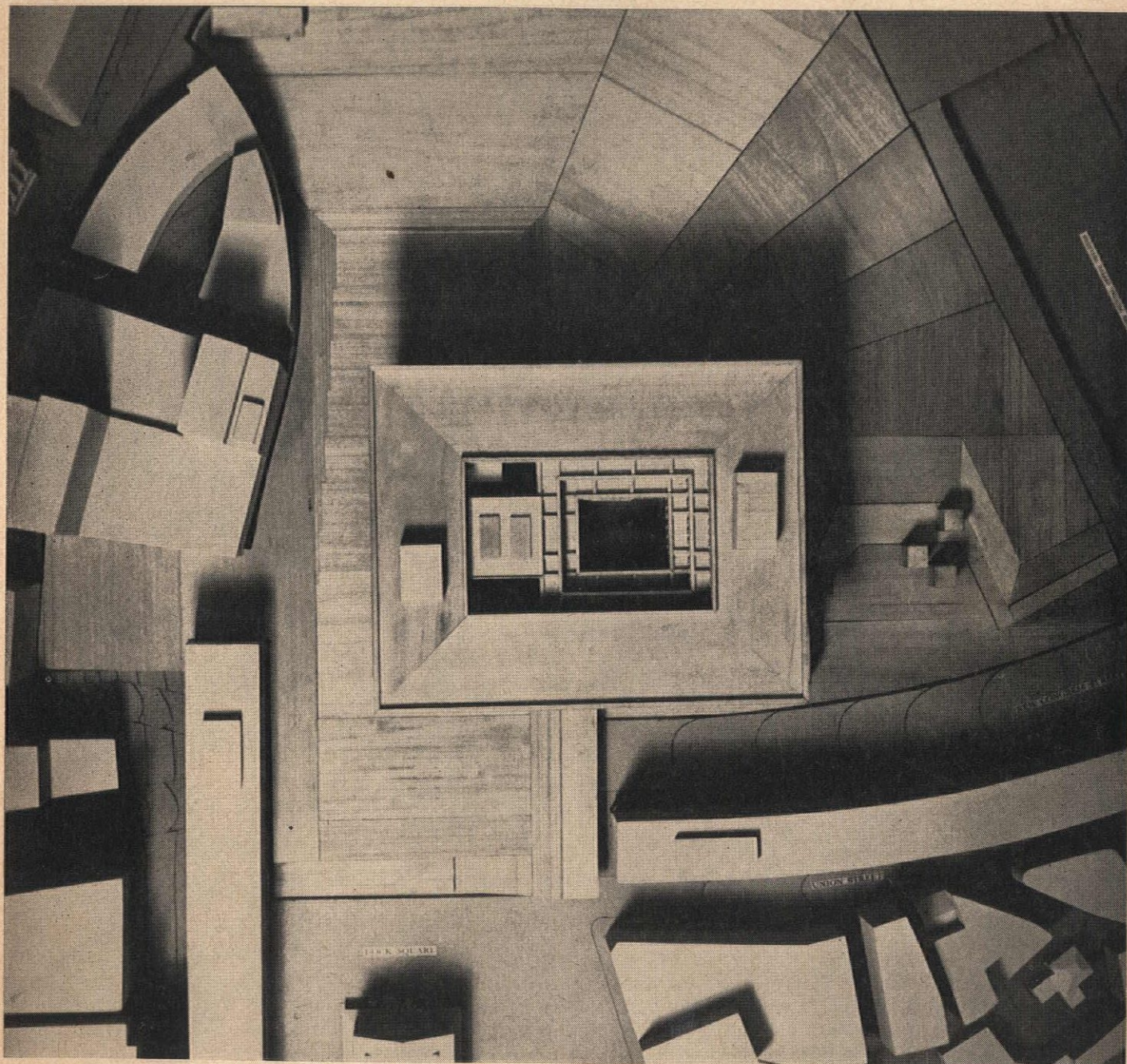


# PROGRESSIVE ARCHITECTURE JULY 1962

# NEWS REPORT

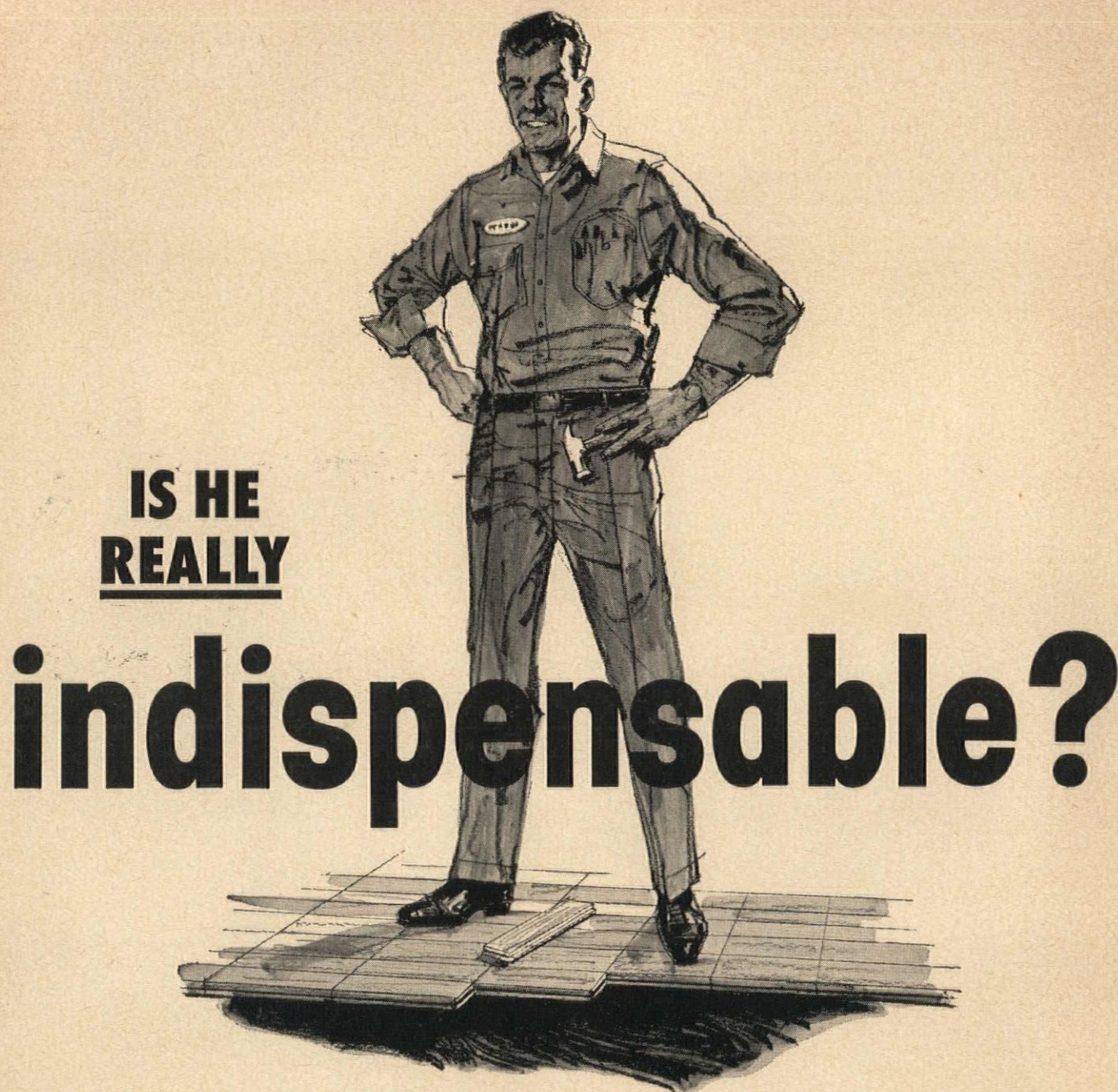
*Architecture's Monthly News Digest of Buildings and Projects, Personalities, New Products*



*Impressive, monumental city square is shown in aerial view of model of winning design for Boston City Hall.*

- |                                       |                                       |
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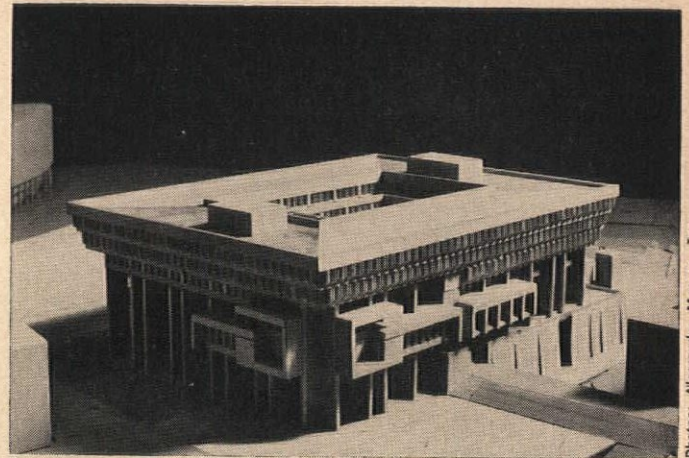
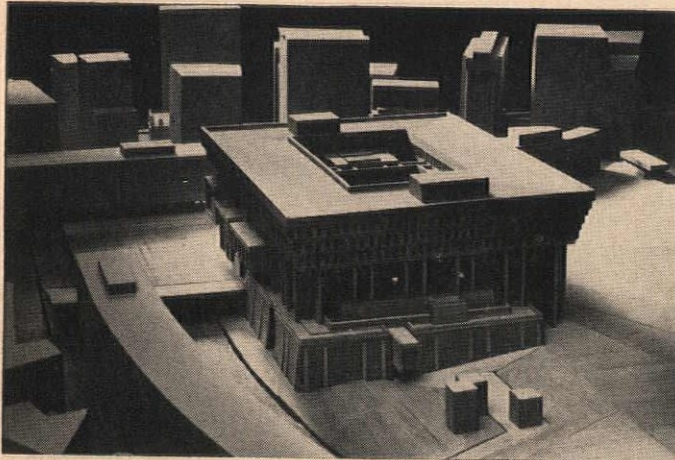
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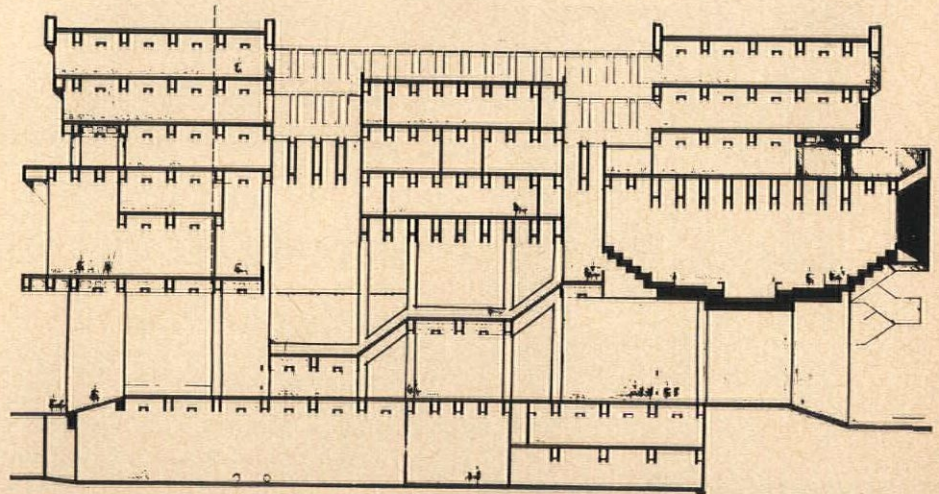
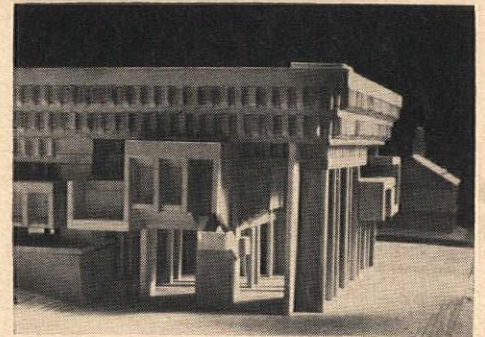
Photos: Alessandro Macone, Inc.

## Boston City Hall: Chandigarh on Scollay Square

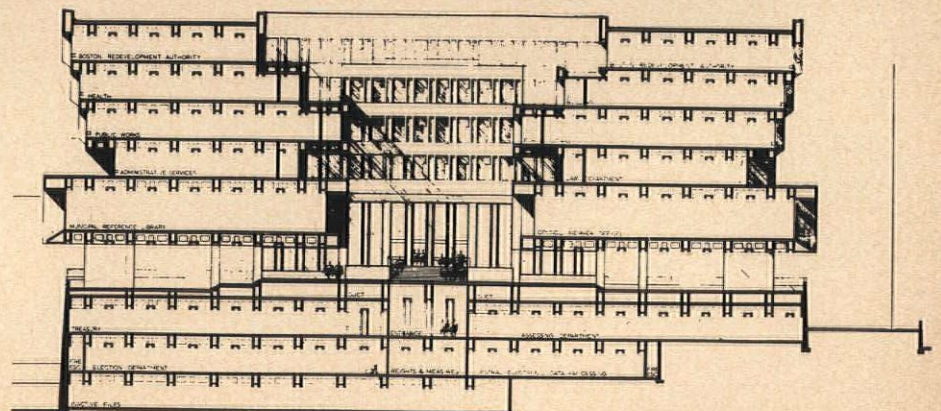
BOSTON, MASS. The team of New Yorkers who won the competition for the design of Boston's City Hall—Gerhard M. Kallmann, Noel M. McKinnell, and Edward F. Knowles—created a proposal that is likely to be talked about and argued for some time to come. It is a quite complicated design that will eventuate in a building of simple, segregated masses. It is, at first glance, a somewhat forbidding monument, which has as one of its main intents the inviting of public appreciation and participation. It is one of the strongest individual statements to come along in quite a while, yet one which will act, in the jury's words, as a "keystone between the historic past and the brilliant future which is to come."

According to the architects, the building is organized in three elements: public areas occupy the base, administrative offices the top, and hung in between are the ceremonial spaces. The City Hall is approached across the new city square and over a series of terraces that rise to the brick-faced "mound" form of the public access area. The roof of this mound is a "stepped terrain" by means of which the visitor reaches the central court containing a major sculpture. The administrative levels are planned in tiers stepping back from this court as they ascend. The ceremonial elements are marked by hooded window devices. From the great interior hall, the visitor can realize all of the major elements of the building.

Structure of the building is based on a system of 3-ft-square, cast-in-place concrete columns and precast concrete vierendeel trusses 5 ft deep. The dimensions of the system are on a columnar grid of 15 ft and 30 ft by 30 ft. Cantilevered tiers of the administrative and ceremonial levels are constructed of floor-to-floor high concrete trusses.



Section shows Mayor's office (left) and Council Chamber (right) below office floors



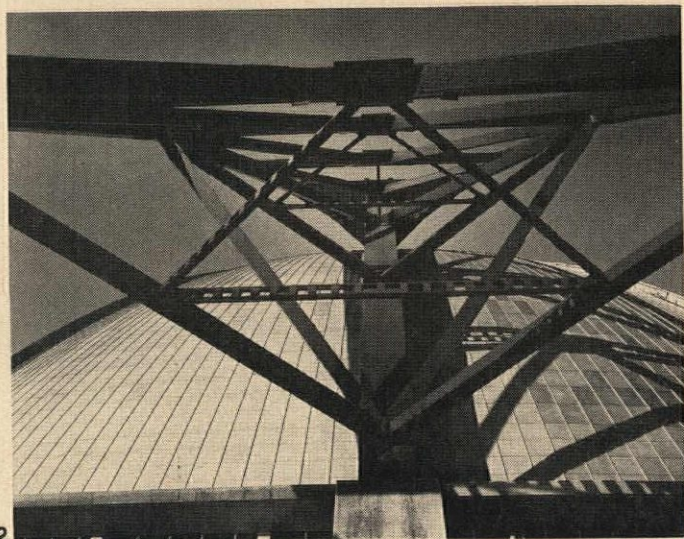
Center section shows central court circled by stepping-back office floors.





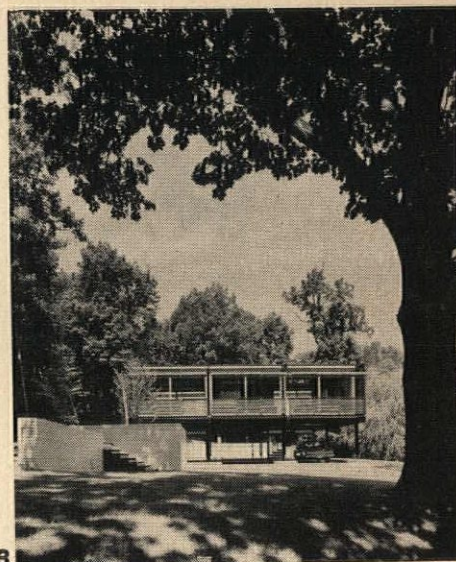
Harper Leiper Studios

1



Joseph Molitor

2



Alexandre Georges

3



Joseph Molitor

9



Ezra Stoller Associates

7



8



Amir H. Farr

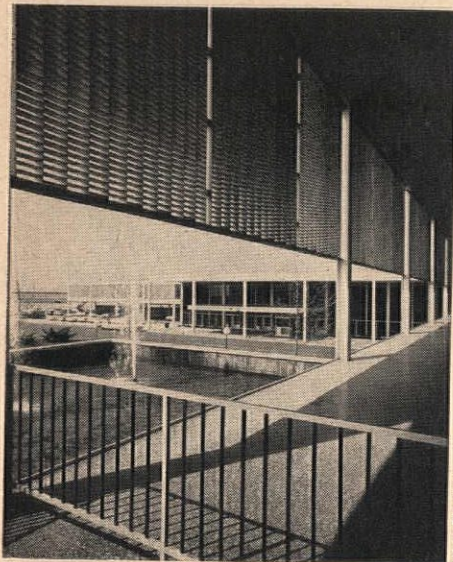
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## NOTABLE DESIGNS USING STEEL CITED BY AISC

NEW YORK, N.Y. Architectural Awards of Excellence for aesthetic use of steel "in a dimension beyond its use as a basic structural frame" have been presented by the American Institute of Steel Construction to 13 architectural firms for the designs of 14 buildings. Jury for the program included Robert W. Cutler, Skidmore, Owings & Merrill, New York; George Edson Danforth, Director, Department of Architecture and City Planning, Illinois Institute of Technology; John T. Grisdale, Carroll, Grisdale & Van Alen, Philadelphia; William J. LeMessurier, William J. LeMessurier & Associates, Consulting Engineers, Boston; and Julian Whittlesey, Whittlesey & Conklin, New York. These jurors also served as critics at the PROGRESSIVE ARCHITECTURE-AISC Workshop Critique on Steel in the Terrace Room of the Plaza Hotel in New York the 14th and 15th of June. All the AISC awards carry equal weight.

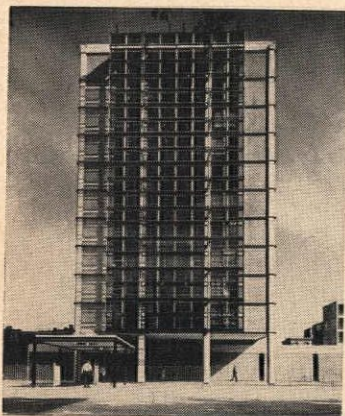
THE AWARD WINNERS: The McAllen State Bank of McAllen, Texas, by Cowell & Neuhaus of Houston (1) was commended as "an excellent example of straightforward steel construction." Structural Engineer was Harold B. Horton. "As clean and logically designed as a piece of machinery" was the encomium earned by Mitchell & Ritchey's Pittsburgh Public Auditorium (2). Ammann & Whitney was structural engineer for the structure, which was also complimented for the great cantilever supporting its roof leaves. Careful detailing of steel for the compatible use of other materials in the Drill House, West Orange, N.J., won an award for Davis, Brody & Wisniewski (3). Wiesenfeld, Hayward & Leon was structural consultant for the house, which was fully presented in the MAY 1962 P/A. Murray-Jones-Murray of Tulsa won an award for the airport terminal building in their home town (4). The jury admired the



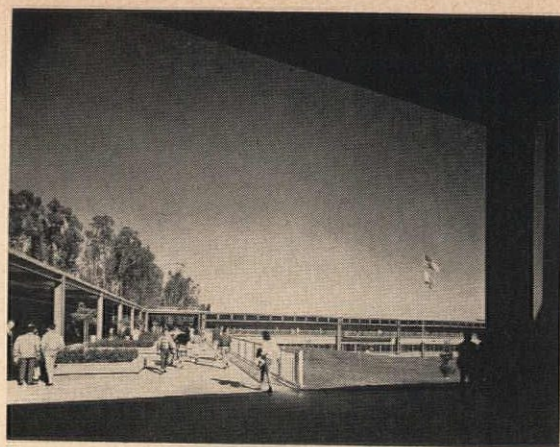


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Ben Newby



10



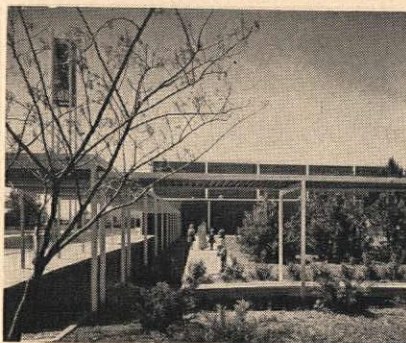
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Roger Sturtevant



12

F. Wilbur Seiders



11

Julius Shulman



13



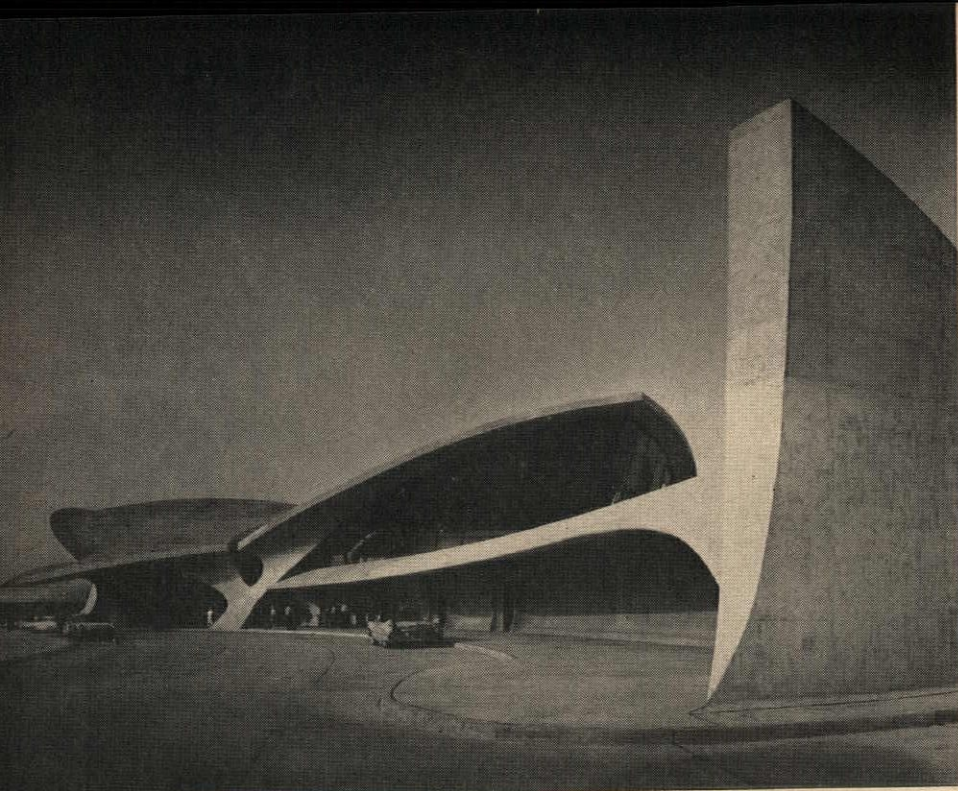
14

building's plan and its "excellent use of steel for framing." Structural engineer was David R. Graham & Associates. Plan, siting, and superior use and expression of steel won an award for Reid, Rockwell, Banwell & Tarics's Aragon High School in San Mateo, Calif. (5). Notable are the steel Viereendeel trusses used in gymnasium and little theater. A "motor age" church (6), permitting 600 cars to park within sight of the minister and tune in the services through individual listening devices, brought an award for Richard J. Neutra & Associates and Structural Engineer Eugene Birnbaum. Skidmore, Owings & Merrill achieved an "excellent expression in the architecture of the space frame" in its design for the general offices of the Upjohn Company (7), according to the jury. A Standard Oil service station for Los Angeles International Airport (8) was described as a "logical solution for a steel roof" and "par-

ticularly attractive from the air." Charles Luckman Associates was Coordinating Architect, with Welton Becket & Associates and Paul R. Williams & Associates; Structural Engineers: Richard R. Bradshaw, Inc., and S. B. Barnes & Associates. An example of high-rise steel construction that the jury felt "speaks steel—you can feel it" garnered acclaim for Gateway Number Four in Pittsburgh (9) by Harrison & Abramovitz, with Structural Engineer Edwards & Hjorth. Use of steel in a well-design sunshade was among the reasons for the premiation of John Hall Dormitory for Men at Temple University by Nolen & Swinburne (10). Severud-Elstad-Krueger Associates was Structural Engineer. Another award went to Murray-Jones Murray for the design of Sts. Peter and Paul Church in Tulsa (11). "A simple, direct structural system, designed for the industrial age," was the jury's comment.

Netherton, Dollmeyer & Solnok did the structural engineering. A decorative steel frame and a fine plan attracted the jury to the office building for the Holland Mortgage and Investment Corporation and the Fidelity-Southern Fire Insurance Company in Houston (12). Architect was Neuhaus & Taylor; Structural Engineer, Vogt & Clouse. The tennis pavilion at Princeton University (13) by Ballard, Todd & Snibbe, recently recipient of an AIA Award of Merit, won an AISC award for being "delightfully decorative and fanciful, romantic and playful—in the spirit of the game." Structural Engineer was Peter W. Bruder. Anshen & Allen's International Building in San Francisco (14) was deemed worthy of premiation because of its structural soundness in an earthquake area, its use of 17-ft steel cantilevers, and a "sophisticated" plan. Structural Engineers: Gould & Degenkolb and Robert D. Dewell.





## TWA Spreads Its Wings

NEW YORK, N.Y. One of the late Eero Saarinen's *chefs-d'oeuvre*, the TWA Terminal at New York International Airport, opened last month and fast became the cynosure of architectural eyes. As is the case with most significant works of architecture, opinions were varied and discussions rife at luncheons and parties where architects and architectural commentators congregated. P/A records here observations pro and con.

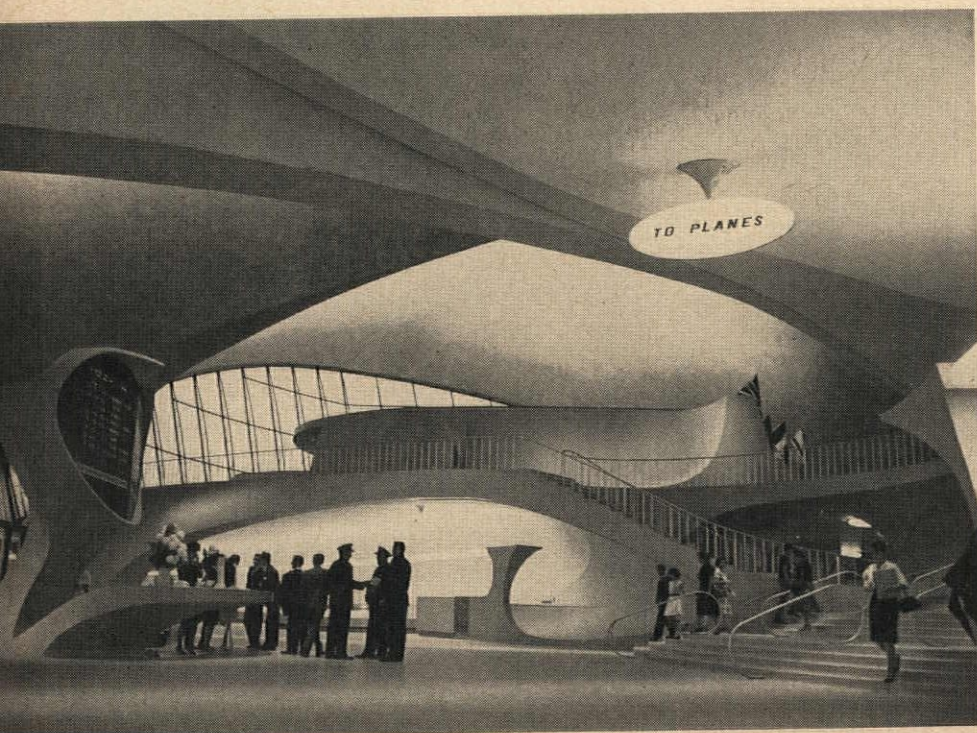
**PRO:** "The architect accomplished in a masterful way the tough task of accommodating within a difficult envelope the numerous requirements of an air terminal. The result is a powerful spatial symphony played without compromise, a sequence of spaces within

spaces. The interior elements are used consistently and knowingly to shape and modulate this sequence. Even the delicately textured, white ceramic flooring tile, used not only on the floor but also on most of the vertical surfaces, is a brilliant device employed to subdue the meaning of planes and to accentuate the meaning of spaces."

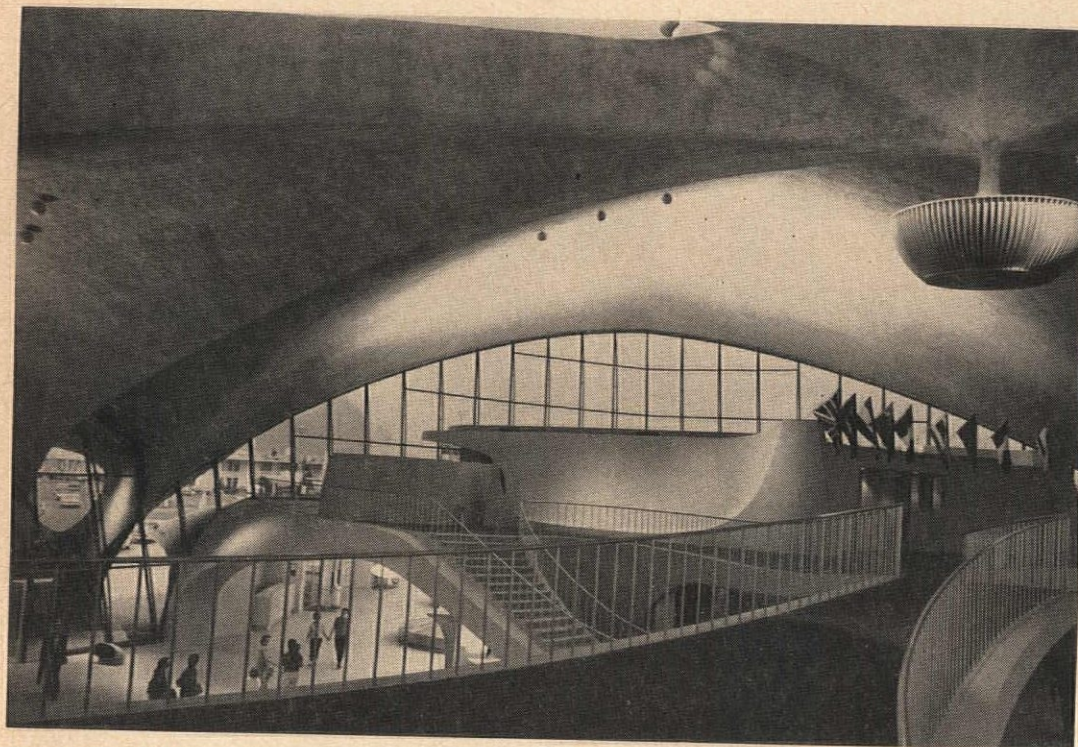
**CON:** "It seems to me that the restlessly obtrusive interiors of the terminal fight with and obscure Saarinen's bold, poised space conception and that this is visually disturbing. The great interior space that could have been created by the four intersecting dome segments does not 'read' because every interior vista is blocked and obscured by strongly sinuous elements. The curved

bridge balcony, the winding stairs, the upturning volutes at the bases of the stair, the sculptured eyes that tell flight times, the bracketed ceilings leading to ticketing and baggage-receiving spaces—all these attract attention to themselves, and prevent one from visually following a vaulted or arched roof element from peak to support. The delicately small-scaled tile floor material creeping up every vertical surface it touches, the dark-ceilinged tunnels leading silhouetted passengers to the planes, the eye-socket windows, all give a surrealist impression on the interior which is in sharp and disturbing contrast to the bold, crudely built concrete forms one sees from the outside."

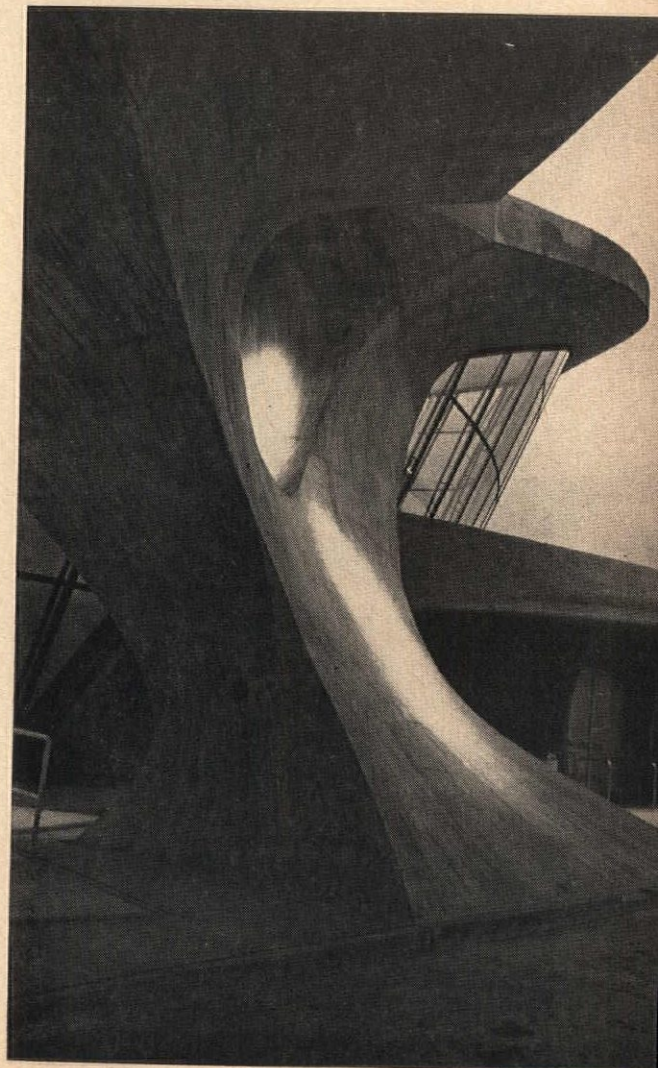
*Chacun à son gout.*







Photos: David Hirsch





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# **ANNUAL P/A**





# DESIGN AWARDS PROGRAM

for projects not yet built

**PROGRESSIVE ARCHITECTURE** announces its tenth annual Design Awards Program. Awards will be made to architects and their clients for projects now in the design stage to be built in 1963 in the United States.

**PURPOSE** of the Design Awards Program is to give recognition to good design in the period of design development, rather than after completion, in order to encourage the designers and owners of the projects so honored.

**AWARDS** will be given by the Jury listed below to the best projects chosen from nine categories—COMMERCE, EDUCATION, DEFENSE, HEALTH, INDUSTRY, PUBLIC USE, RECREATION, RESIDENTIAL DESIGN, RELIGION. AWARDS will be on the basis of site use, choice of structural system and materials and methods of construction, solution of the client's program, and over-all design excellence.

**FIRST DESIGN AWARD** will be given to the one best building submitted. AWARDS and CITATIONS may be given in each of the nine building categories.

**FIRST DESIGN AWARD, AWARDS, AND CITATIONS** may also be given in Planning and Urban Design. Under this phase of the program, the Jury will consider projects in Urban Redevelopment, Campus Planning, Industrial Park Planning, Recreational Area Planning, etc.

The Jury will assign projects to the various categories, and reserves the right to withhold an AWARD in any category.

**JURY** will be composed of Robert L. Geddes, Architect, Geddes-Brecher-Qualls-Cunningham, Philadelphia; John MacL. Johansen, Architect, New Canaan, Conn.; Paul M. Rudolph, Architect and Chairman, Department of Architecture, Yale University; Aline B. Saarinen, Architectural Critic and Historian, Eero Saarinen Associates, Hamden, Conn.; and John Skilling, Consulting Engineer, Worthington, Skilling, Helle & Jackson, Seattle, Wash.

**JUDGMENT** will take place in New York during September 1962. Winners of AWARDS and CITATIONS will be notified (confidentially) immediately after the judgment.

**ANNOUNCEMENT** of the winning projects will be made at a presentation in the home town (if practicable) of the recipient of the First Design Award. Winning projects will be featured in January 1963 P/A. As in the past, P/A will arrange coverage of winning projects in other media, particularly those in the localities of all the AWARD and CITATION winners.

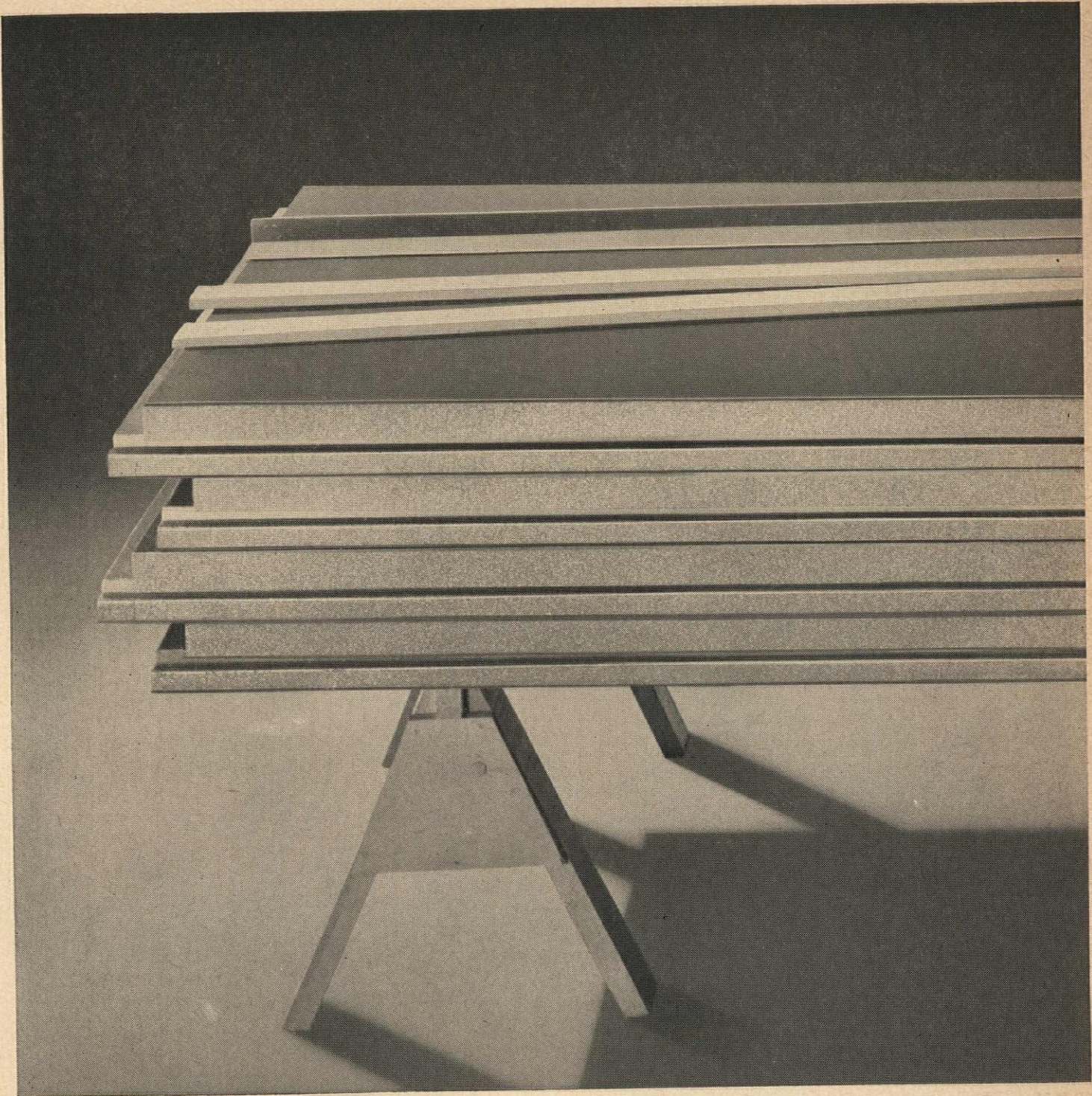
**DEADLINE FOR MAILING** is August 31, 1962. No application blanks are necessary. For each project you submit, simply send:

1. Client's name, location, and proper name for project.
2. Brief explanation of the program and your solution.
3. Description of materials and construction methods used, and the reasons for their use.
4. Site plan; basic building plans; pertinent sections and details.
5. Perspectives or model photographs. Submit 8" x 10" prints, photostats, or photographs. **Original drawings, actual models, or mounted exhibit panels will not be accepted.**
6. A statement that (a) the project is now in the design stage and that construction is anticipated in 1963 and (b) that submission of a project for judgment gives PROGRESSIVE ARCHITECTURE first rights in the architectural field to publish both the project and the finished building if it receives an Award or Citation.

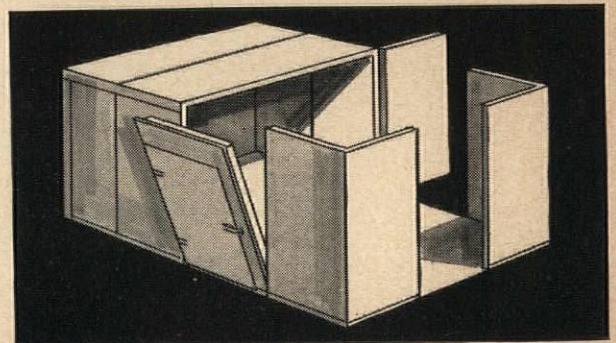
**ADDRESS** on or before August 31, 1962, to:  
Awards Editor, PROGRESSIVE ARCHITECTURE  
430 Park Avenue, New York 22, New York

P/A will guard and return all material that is submitted.

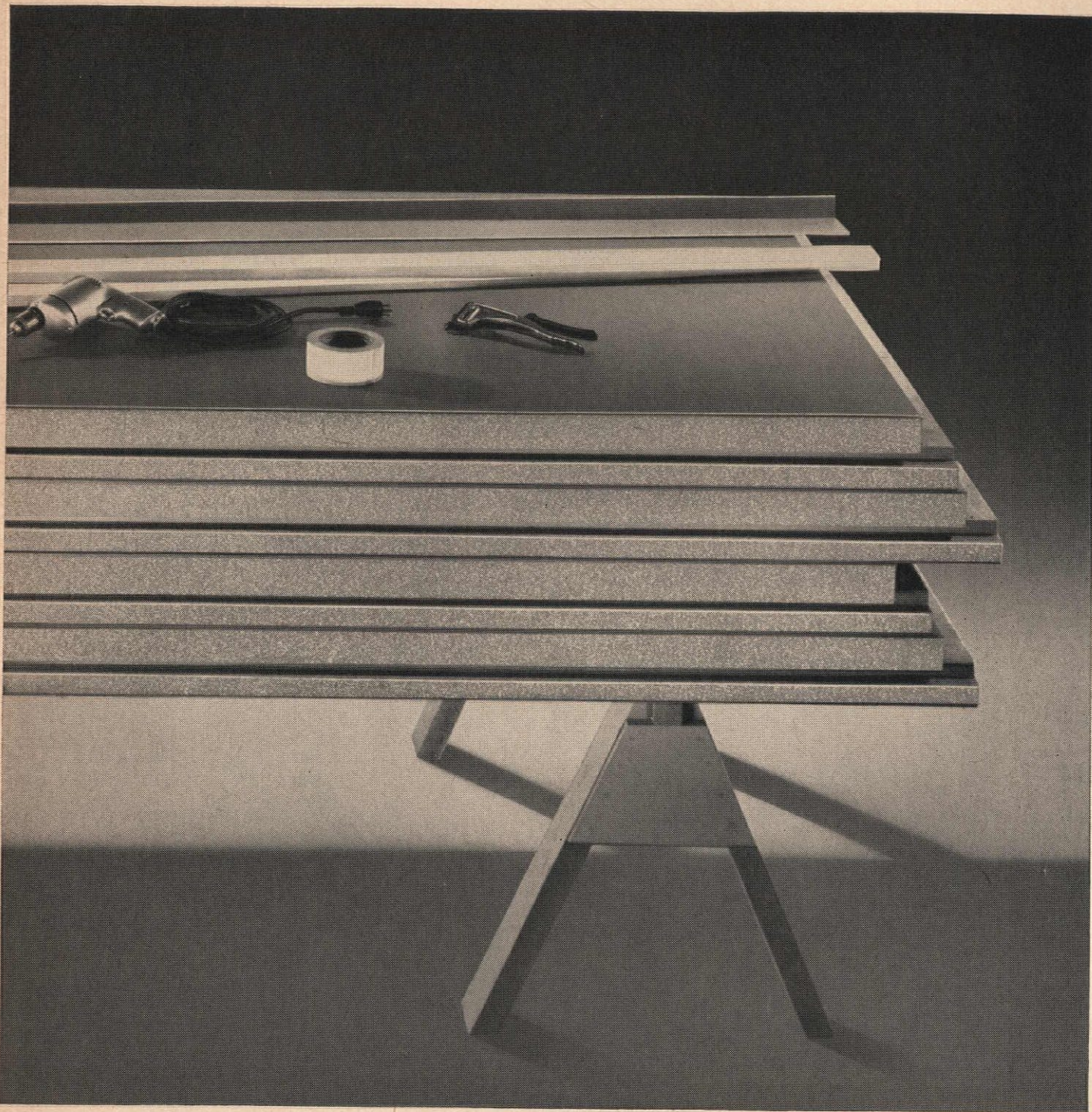




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# PERSONALITIES

"Benjamin Disraeli said once that almost everything that is great has been done by youth. Perhaps the trustees had the same thing in mind when they decided to bring **Dr. Albert Bush-Brown** to the School of Design. He will be a valuable addition in the state's academic and cultural spheres." So ran an editorial in the *Providence*



*Sunday Journal* upon news of the accession of 36-year-old Bush-Brown (same age as your News Editor—Good Grief!) to the presidency of Rhode Island School of Design. Associated for the last eight years with MIT, where he was first assistant then associate professor of architecture, teaching architectural theory, criticism, and history, Bush-Brown brings with him an educational background perhaps unique to one who will have to assume administrative and policy-making duties as head of a major design institution. After receiving his A.B. in Philosophy from Princeton, he went on to take a Master of Fine Arts and Ph.D. there in art and archaeology, in addition to spending three years as a fellow at Harvard. Besides his years at MIT, his teaching experience includes a year as instructor in art and archaeology at Princeton and one as assistant professor of art and architecture at Western Reserve. His wide-ranging interests in architecture and planning are well known to the profession, mainly through his formidable schedule of speaking engagements in this country and abroad, and through his prolific writings, especially last year's well-received *The Architecture of America: A Social Interpretation* (with John E. Burchard). He also produced a slim volume on Louis Sullivan in 1960 for

the George Braziller series on Masters of World Architecture, and has two books in the works: *Theory for Modern Architecture*, due this fall from Atlantic-Little, Brown; and *Image of a University: Architecture and Education*, of which he has six of eight chapters completed.

We need not fear that his new duties will remove this valuable architectural gadfly from the public arenas, where his kind is so needed. He has said to the architect, "... the responsibilities of the architect for criticism and education do not end with his fellows' work. Too few are using the agencies available to them for educating their communities about town planning and architecture."

Museum of Modern Art has published "Four Walking Tours of Modern Architecture in New York City," by ADA LOUISE HUXTABLE ... RALPH BRYAN heads the Dallas chapter AIA for the next year ... New commission for I. M. PEI is the Everson Museum of Art in Syracuse, N.Y.; PIETRO BELUSCHI will be design consultant, and local firm PEDERSON, HUEBER & HARES will be associated ... The Auguste Perret Prize of UIA went to FELIX CANDELA ... A. C. FRISK of Iowa was elected president of the Structural Clay Products Institute ... Brazil's "Cruzeiro do Sul" award was bestowed on Colonel WILLARD F. ROCKWELL of Rockwell-Standard Corp. and Rockwell Manufacturing Co.

Leadership by youth on the campus seems to be a decided trend these days. Just a year older than Albert Bush-Brown is **Charles W. Moore**, who has succeeded Vernon DeMars as Chairman of the Department of Architecture at the University of Cali-



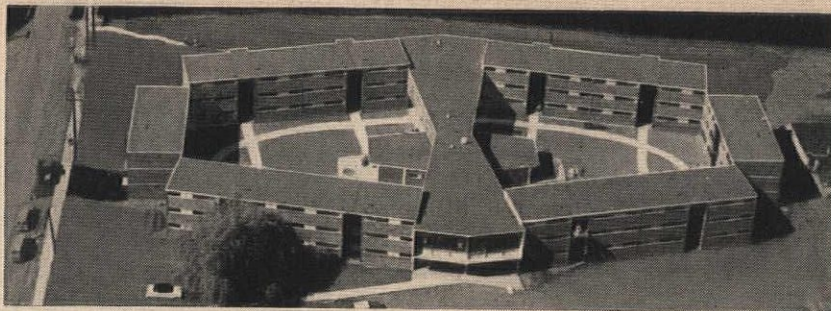
fornia in Berkeley. The department is part of the ceremoniously named College of Environmental Design, whose Dean is William W. Wurster. Born in Benton Harbor, Michigan, Moore received his B.Arch. from the University of Michigan in 1947, moonlighting the while in the offices of Lewis J. Sarvis and Roger Bailey Associates. After graduation, he moved to California and worked with, among others, Mario Corbett and Joseph Allen Stein. In 1949 he won the George W. Booth Traveling Fellowship from his undergraduate alma mater and toured through Europe and the Near East taking photographs for use in teaching architectural design and history. Getting his pedagogical feet wet as an assistant professor at the University of Utah in 1950-52, Moore began to formulate his philosophy of architectural education. "I had become convinced of the value of architectural history as a core discipline in the teaching of architecture," he says. After a two-year service as a lieutenant in the Corps of Engineers in this country and Korea, he matriculated at Princeton to receive his M.F.A. in architectural design and history in 1956 and his Ph.D. in architecture in 1957. He remained at Princeton, from 1957-59, as an assistant professor of architecture. Settling permanently in California again in 1959 (he had been practicing there in the summers during his Princeton residence), Moore became a senior associate in the firm of Clark & Beuttler and an associate professor of architecture at the University of California. Readers of P/A will remember his design for his own house in Orinda, which won an Award Citation in the 1962 Design Awards Program (pp. 146-149, JANUARY 1962 P/A).

New faculty members at Department of Architecture, University of Notre Dame, are JULIAN E. KULSKI, KENNETH A. FEATHERSTONE, and SOLOMON A. LIM ... JOSEPH DECHIARA of Urban Planning Associates is new assistant professor of planning at Pratt Institute ... How to get from one place to another seems to be the specialty of BERNARD RUDOFISKY. His recent exhibit of "Roads" at the Museum of Modern Art, in which he opened our eyes to the appalling power for good or evil inherent in the concrete arteries that lace our land, is now traveling; so is an earlier show, "Stairs," in which Rudofsky traces their development from the Tower of Babel to the U.S. Air Force Academy.

Sketches by

Ronnie Corbetta

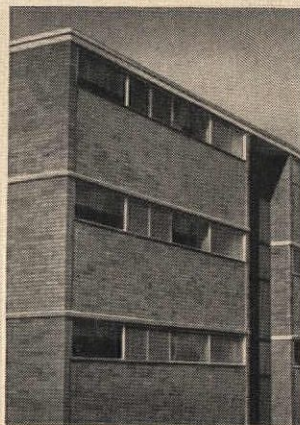




Men's dormitories consist of six three-story units grouped around a central three-story office and lounge building, with total area of 48,094 square feet. They provide a total of 57 four-student housing units, plus apartments for student counselors.

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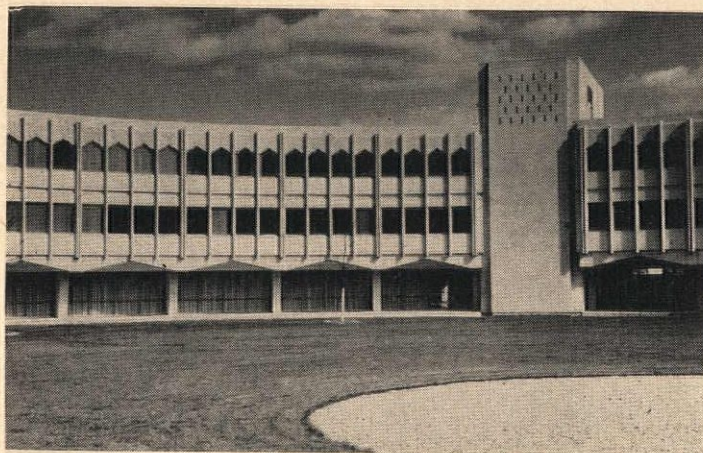


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Photos, except as noted: John M. Dixon



## Baptists Build Circular HQ at Valley Forge

VALLEY FORGE, PA. All national administrative and publishing activities of the American Baptist Convention have been brought together here in a new building by Vincent G. Kling. The Offices are now housed in a circular concrete office structure that gleams white against the summer greenery.

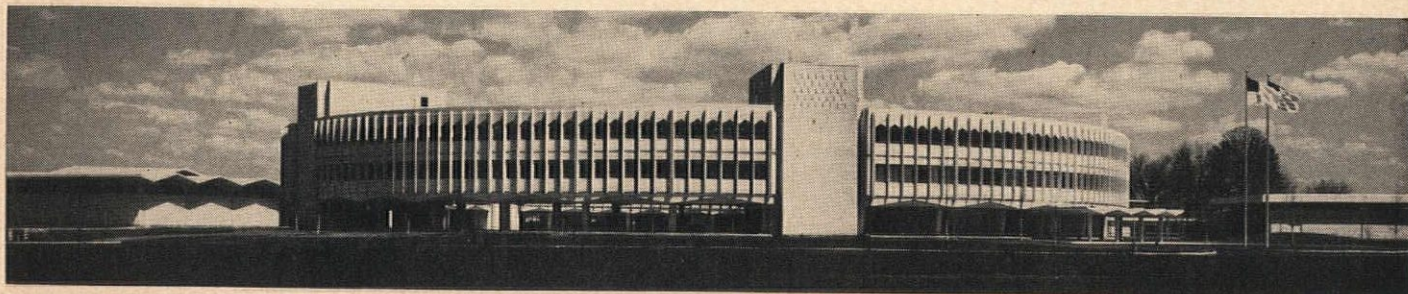
Aside from its significance as a Christian symbol of unity, the circular form was chosen as the one most functional for a body whose different agencies and departments must work inde-

pendently, yet at the same time have a close relationship to each other. The ground floor is two-fifths open to form an arcade extending between the concrete piers. The enclosed portions of this floor contain central lobby, book store, library, and the data processing and accounting department used by all agencies. The second and third floors contain agency offices. Windows on the upper floor have triangular heads to suggest an ecclesiastical feeling in contemporary terms.

Fanning out from the office building is the one-story graphic arts and painting building. The arc shape of this structure follows the circumference of the office building.

At the opposite side of the office building is the cafeteria-conference center, which also follows the circumference of the main structure.

A fourth element will join the center—an 80-ft, circular chapel seating 150 that is expected to be the unifying focus of the composition.



Lawrence S. Williams





Austin Paddock



Creighton, Cowell, Horton



Jones, Holmes, Graham

## Expanding Design Horizons of Steel Discussed

NEW YORK, N.Y. At the Workshop Critique on Steel in Architecture, sponsored by U. S. Steel and conducted by PROGRESSIVE ARCHITECTURE, featuring five of the winners of the AISC Design Awards of Excellence winners (pp. 66-67), the featured luncheon speaker was Austin J. Paddock, Administrative Vice-President of Fabrication and Manufacture of the steel corporation. Illustrating his remarks with scale models of advanced steel designs, Paddock discussed the present and future of design in steel.

"I am not surprised that architects and structural engineers are beginning to exercise their creativity in more radical design concepts, such as geometrical configurations in buildings, single planar cable systems, suspended buildings and load-bearing vertical grid truss walls—all being movements toward greater expression.

"This means that, more than ever, you are hunting better and more versatile materials. You all have definite opinions as to which materials offer you the greatest freedom, and as a group you are perhaps somewhat divided in your views. . . .

"We believe that, if you really are seeking to achieve maximum freedom in your work, the best means to accomplish this is through the proper use of the steels now available to you. . . .

"Recently, construction was begun on a building that will wear its structural steel framework on the outside in the form of a diamond-shaped grid truss wall that will be completely loadbearing. This eliminates spandrel beams and all vertical columns, from the skin of the building to its core. . . .

"To make this design work, no less than five different steels were skillfully blended into the structure. Both of the workhorse carbons obviously were used—A7, for miscellaneous applications, and A36 for about half of the framework. But what is more significant is that substantial portions of the framework will use A441, with its 50,000 psi minimum yield point, and two construc-

tional alloy steels with 100,000 psi.

"This is the first time that standard structural shapes of a 100,000 psi yield strength steel have been used in the framework of a multistory building. The net result is a continuing fine line appeal running from the base to the top of the building.

"Another example comes to mind. Who among us doesn't shudder every time the term 'corrosion' is mentioned? Yet, under controlled circumstances, the whole concept of weathering can be made to work in favor of aesthetics. . . .

"And now, an architect has flown boldly into time-honored taboos and tradition, to design a multi-story building using [an oxidized steel], both unpainted and exposed in the exterior columns and beams. This design will take full advantage of the russet-colored oxidation to blend with the semirural surroundings. . . .

"But what about other forms—hollow structural shapes (round, square and rectangular); wire and wire rope; sheet and strip products; which can be cold or hot formed and coated in many gauges to provide a nearly infinite variety? Cannot the strength levels, corrosion resistance, weldability, formability, and colorability also be taken out of these products and applied freely in architecture to open up vast new horizons in aesthetics?

"Let's take the principles of geometrical configuration in buildings. There has been some suggestion that steel does not offer as much freedom in design here as do other types of material—concrete for one.

"Yet, because of its strength-to-weight ratio and all its other characteristics, steel properly used will give you almost endless freedom. Indeed, if there are any limitations on freedom, they are found not in the metal itself; they are governed, rather, by the degree of creativity exercised by the architects and structural engineers. . . .

"For instance, a new concept of a fabricated, hollow beam combining stainless and high strength steels has al-

ready been exhibited in prototype form for possible use in bridges. Its cross-sectional profile resembles an hourglass—another adaptation of the doubly-curved surface. The relatively thin gauges of the materials, less than 1/8 in., clearly dramatize the additional strength-to-weight factor gained by applying geometrical principles to the already long list of steel behavior patterns.

"Who can say what its architectural potentials might be for beauty, durability, flexibility, and lightness?

"We haven't even touched the subject of wire, which, blended with all kinds of three-dimensional trusses—vertical, horizontal or curved—lays open yet another vista for the inquiring, aesthetically-tuned mind. Steel wire—the strongest and lightest of the strong—[is] capable of carrying its own weight over a distance equal to a million times its diameter. . . .

"And we cannot ignore the concept of suspending entire building frames, either through the application of wire, or bars and flat plates made of higher strength steels. One structure, now building in Mexico, is suspended by channels hung from steel trusses cantilevered from its own service core. It is designed to be earthquake-proof and resistant to soil settlement conditions. . . .

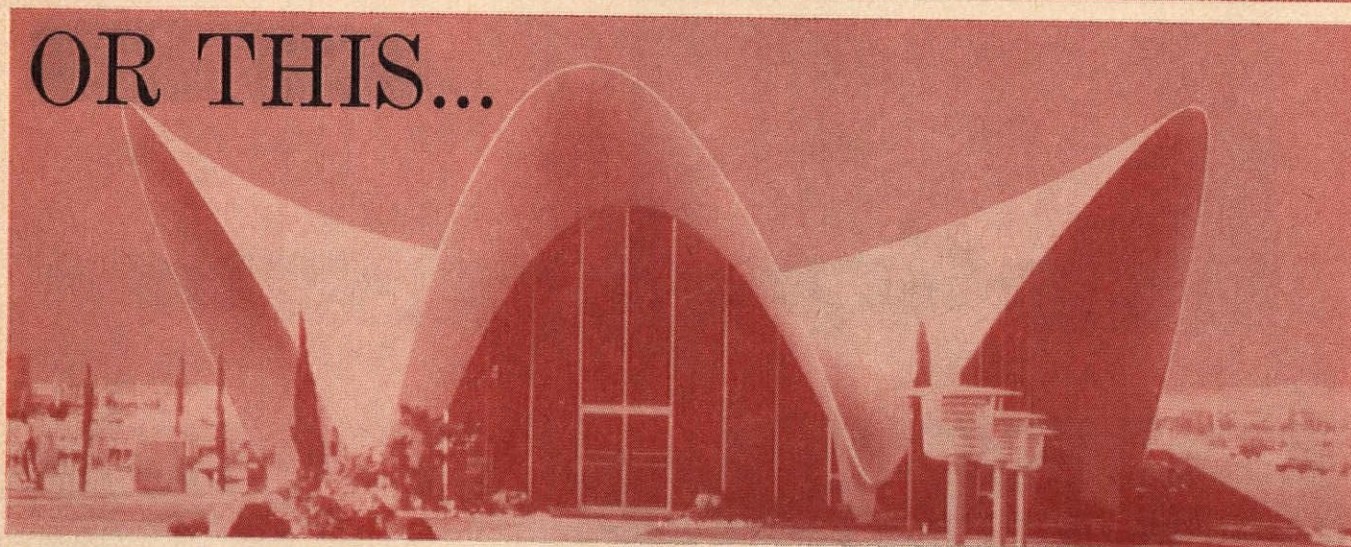
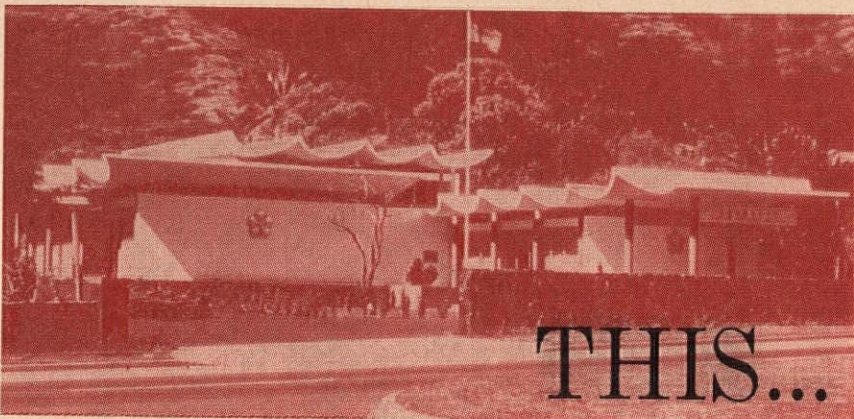
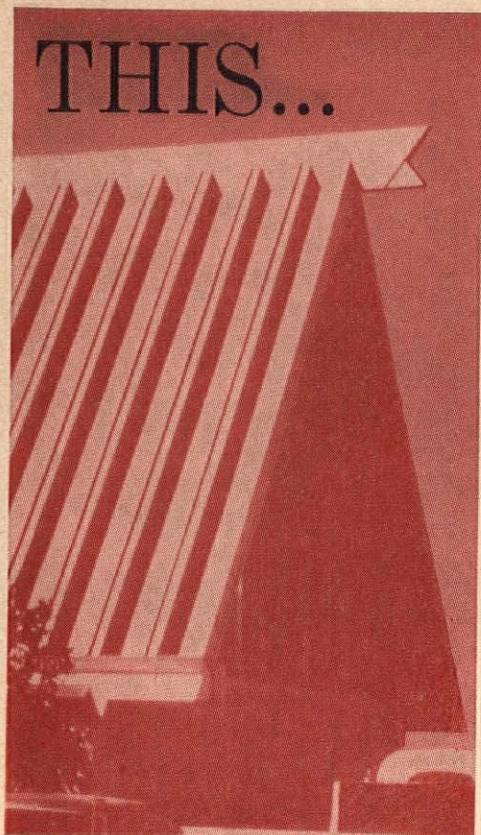
"Concepts and more concepts. Take plastic and orthotropic designs. What other material lends itself better to two- and three-dimensional stressing than does steel?

"Where will the coming use of plastic design take us? Although several universities presently are studying its application to multistory buildings, we have barely scratched the surface. . . .

"Do we think we are at the end of the trail—or only at the beginning? I suggest this answer depends on people like us."

An extensive report on the findings of the all-day design seminar will appear in the NOVEMBER 1962 P/A. Watch for it.





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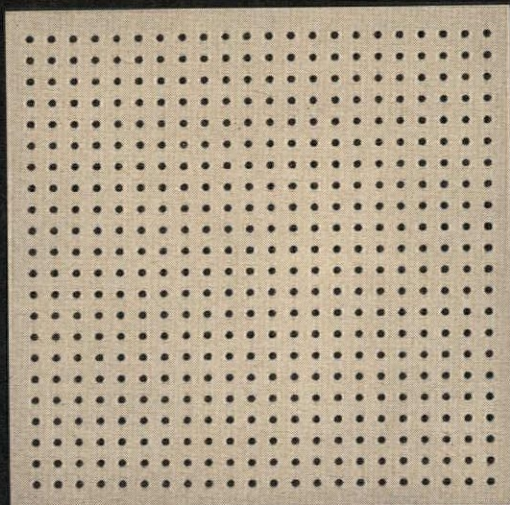
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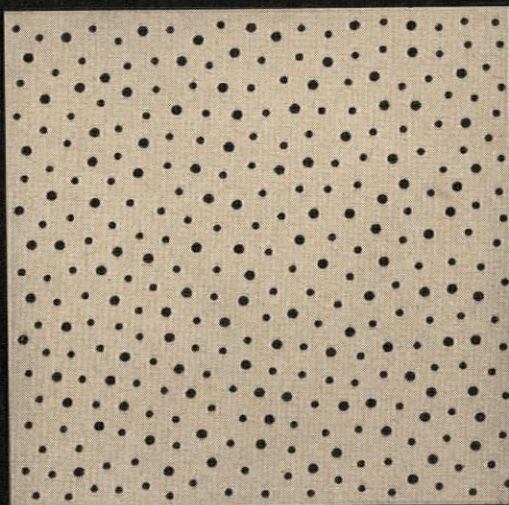


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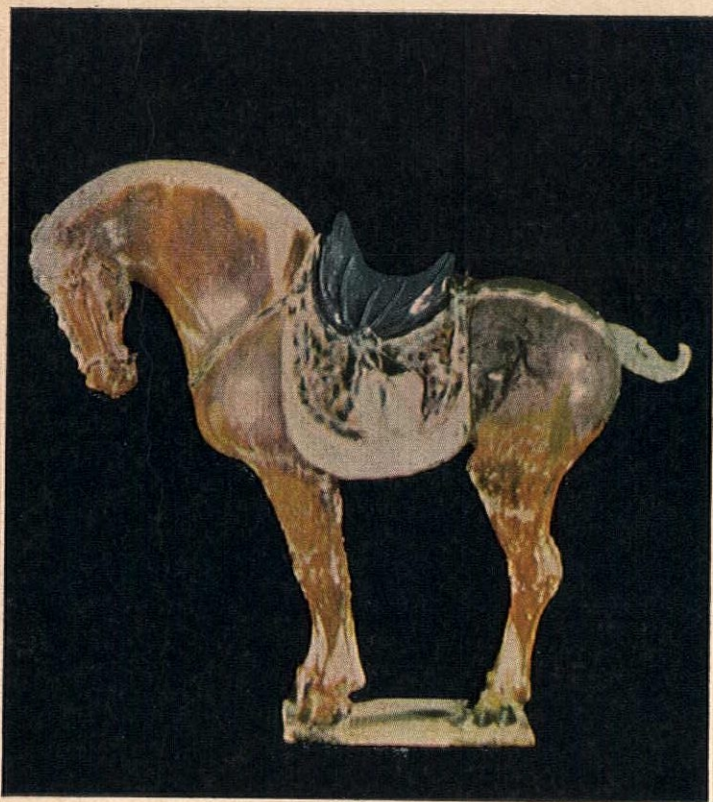


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RANDOM





*"Horse with Saddle," a glazed Terra Cotta tomb figure now in the collection of the Minneapolis Institute of Art. Its beauty has endured since the T'ang dynasty, 618-906 A.D.*

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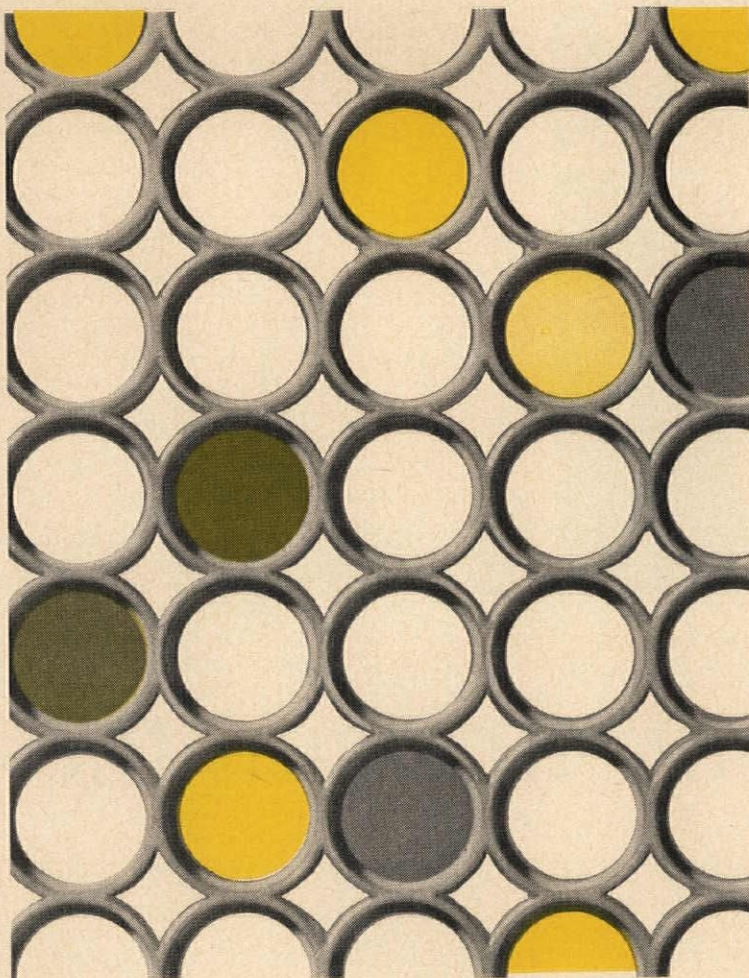
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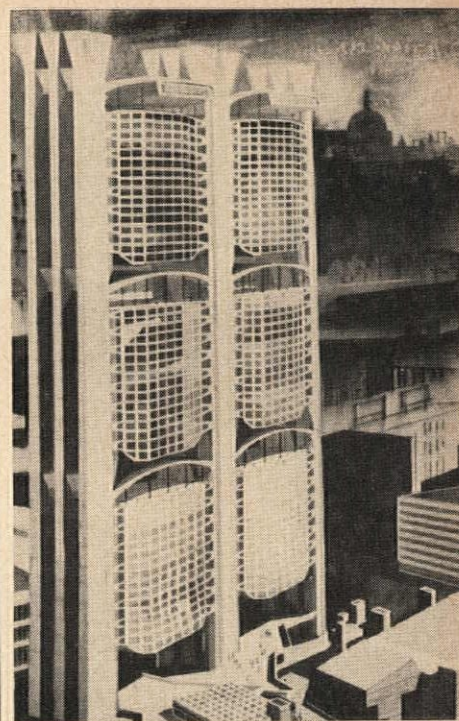
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For more information, turn to Reader Service card, circle No. 352



## Skyscraper Hotel Proposed for Central London

Preliminary plans for a 48-story hotel to be built in London have been announced by the E. A. Coleman property group. If the present plans are approved by the London County Council, this 650-ft structure will be the tallest in the city, nearly twice the height of the two present highest buildings—the 387-ft, 34-story Pickers Building and the 330-ft Shell Building. The new structure would be part of an £8-million development and itself would cost £4 million. Its exact site, and the Continental group for whom it would be built, have not yet been disclosed.

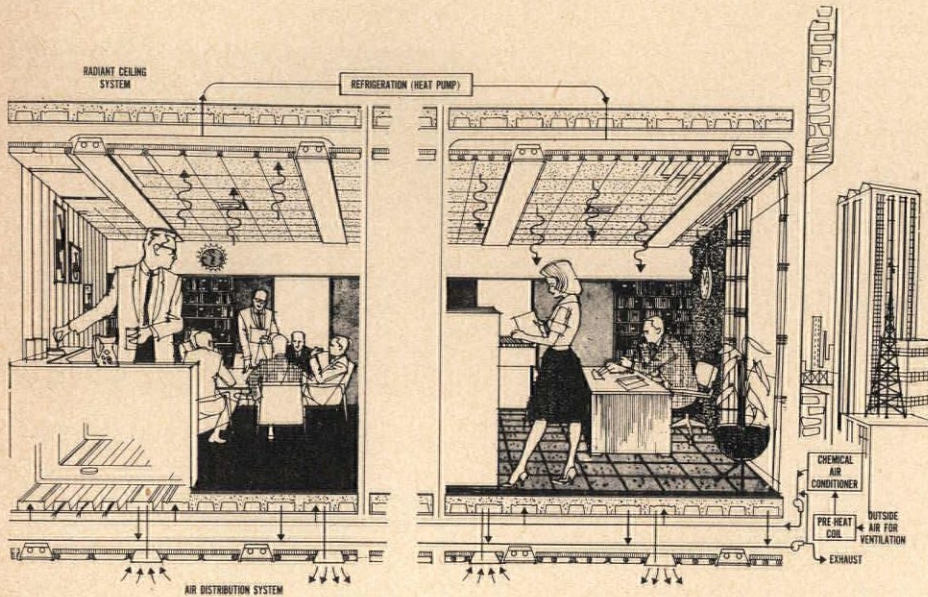
Although the height is significant, of far more interest to architects and engineers is the structural system that was announced by Gordon M. Rose, Consulting Engineer for the entire development. Rose has adapted the "Suspenarch" system so that six 16-floor sections will be suspended by cables between three towers (*rendering above*). A Suspenarch, from which the floors are hung, consists of an arch member with an upward arc whose springings are connected by a cable having a downward arc with a sag equal to the rise of the arch. The arch and the cable are separated by struts at several panel points.

Rose revealed that the originator of the "Suspenarch" system was Paul C. Chelazzi, New York Engineer-Architect, who has proposed this structural method for buildings as high as 300 stories (OCTOBER 1959 P/A).

B.H.H.



## SYSTEM PROVIDES CONTROLLED ENVIRONMENT

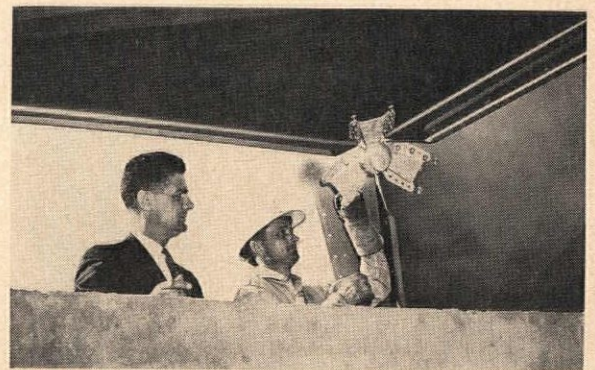


MILWAUKEE, WIS. A new building system has been announced integrating four component systems, which, while not individually new themselves, combine to create an integrated whole.

The system is "Integrated Air Floor," and it consists of Inland Steel's "Cellufloor," radiant ceiling panels, chemical air conditioning, and a standard refrigeration plant. The system takes the four variables affecting physical comfort—temperature of room surfaces, air temperature, relative humidity, and air motion—and blends or controls them to produce a desirable environment. Recommended units for the radiant ceiling panels and the chemical air conditioning are Burgess-Manning Radiant-Acoustical Ceiling System and "Kathabar" units from Midland-Ross Corporation, respectively. The refrigeration plant should be a well-known and dependable make. In addition to providing a pleasant environment, the system significantly reduces the number of disease-producing bacteria in the air. Inland Steel Products, 4101 W. Burnham St., Milwaukee, Wis.

On Free Data Card, Circle 100

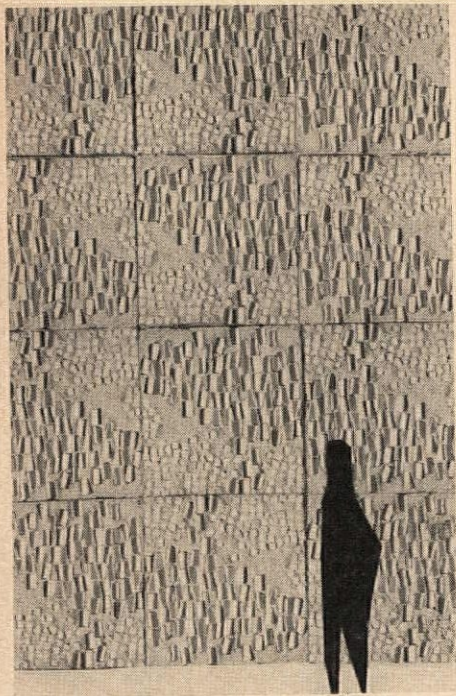
## PUTTING TOGETHER A GEODESIC DOME



TEMPE, ARIZ. The geodesic dome that recently went up to house the Valley National Bank (Weaver & Drover, Architect) utilized "Huckbolt" fasteners to connect its more than 100 anodized panels. The fasteners were effected easily and quickly by two-man teams using pneumatic tools. The first worker applied the bolt and his confederate added the collar and worked the pneumatic device. (The pneumatic instrument was used in all areas except where clearance was a problem; in these areas, hand tools were used to gain the proper clearance.) The fasteners measure  $\frac{3}{8}$ ", and are said to form a stronger, tighter fit than rivets. Huck Manufacturing Co., 2500 Bellevue, Detroit 7, Mich.

On Free Data Card, Circle 101





### Architectural Tiles

Handmade architectural tiles impart dimension and texture to walls and dividing partitions. The tiles are  $\frac{1}{2}$ " thick concrete with latex binder, incorporating such imbedded materials as glass, Italian and marble mosaics, marble grits, brass and aluminum strips, and aluminum or bronze rods. Application is with mastic or in a bed of cement. The tiles have good impact and moisture resistance when mounted; may be cleaned with a solution of soap flakes and water. When used on the exterior, tiles are coated with a transparent silicone solution. Designer Pema Browne has a full range of concrete colors and more than 2000 mosaic colors in stock. Special designs can be made at a design fee. Architectural Muraltiles, Inc., c/o Estelle Dodge Associates, Inc., 239 E. 79th St., New York 21, N.Y.

*On Free Data Card, Circle 102*

### Colored Weathercoating on Building Panels

New process for coating steel and aluminum — "Bowmanizing" — produces siding and roofing sections that are maintenance-free with a permanent color finish. Roll forming of the panels allow for longer lengths, reducing frequent end-lapping. The process enables precise thicknesses of the coating to be applied in the factory. It is applied in the hot state and does not require long curing periods. Resulting coating gives the panels a permanently colored, leather-grained surface, evenly distributed through-

out the panel. Bowman Steel Corp., P. O. Box 2129, Pittsburgh 30, Pa.  
*On Free Data Card, Circle 103*

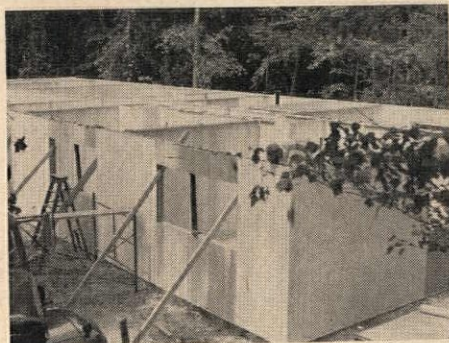
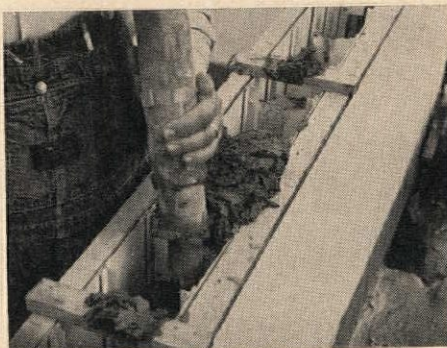
### No Seams on Top

New palstic laminate for laboratory countertops, unlike conventional materials, can be shaped easily under heat to form top and backsplash from the same sheet. Seams and joints in which moisture and corrosive materials might collect are thus eliminated. The durable, nonporous surface of "Kevinite" provides high chemical resistance over long use. A polyester thermosetting plastic, Kevinite is light in weight, self-extinguishing, has low-glare finish. Swedlow, Inc., 394 N. Meridian Rd., Youngstown, Ohio.

*On Free Data Card, Circle 104*

### Noise-Blocking Wall System

A wall system featuring ease of erection, economy, structural solidity, and lack of sound transmission has been announced by a Georgia firm. The system is made up of an interlocking arrangement of aluminum panels 5"



wide with vermiculite aggregate concrete poured into the open space between (which can be either 3" or 5"). The aluminum components are easily cut for doors and windows before the pour. Sound deadening properties of the walls are said to be impressive. Current uses includes tract houses;

the system would also lend itself to all sorts of small commercial and industrial construction. Manufacturers Aluminum Products of U.S.A., Inc., 5580 New Peachtree Road, Chamblee, Ga.

*On Free Data Card, Circle 105*



### Siding Distinguishes Vacation House

The warm and livable vacation house on Shelter Island at the end of Long Island, designed for himself by Peter Schladermundt, uses contemporary sheathing and siding materials to advantage to recall in modern terms the "New England" feeling of local traditional construction. Exterior is cedar plywood paneling applied to the studs, and interior is pecan charter plywood paneling grooved and lacquer-finished at the factory. A 1"-fiber-glass core was used for insulation. Exterior siding was given two coats of stain to gray it down to a finish resembling local seashore buildings. All flat surfaces in kitchen and bathroom are "Micarta." U.S. Plywood Corp., 55 West 44 St., New York 36, N.Y.

*On Free Data Card, Circle 106*

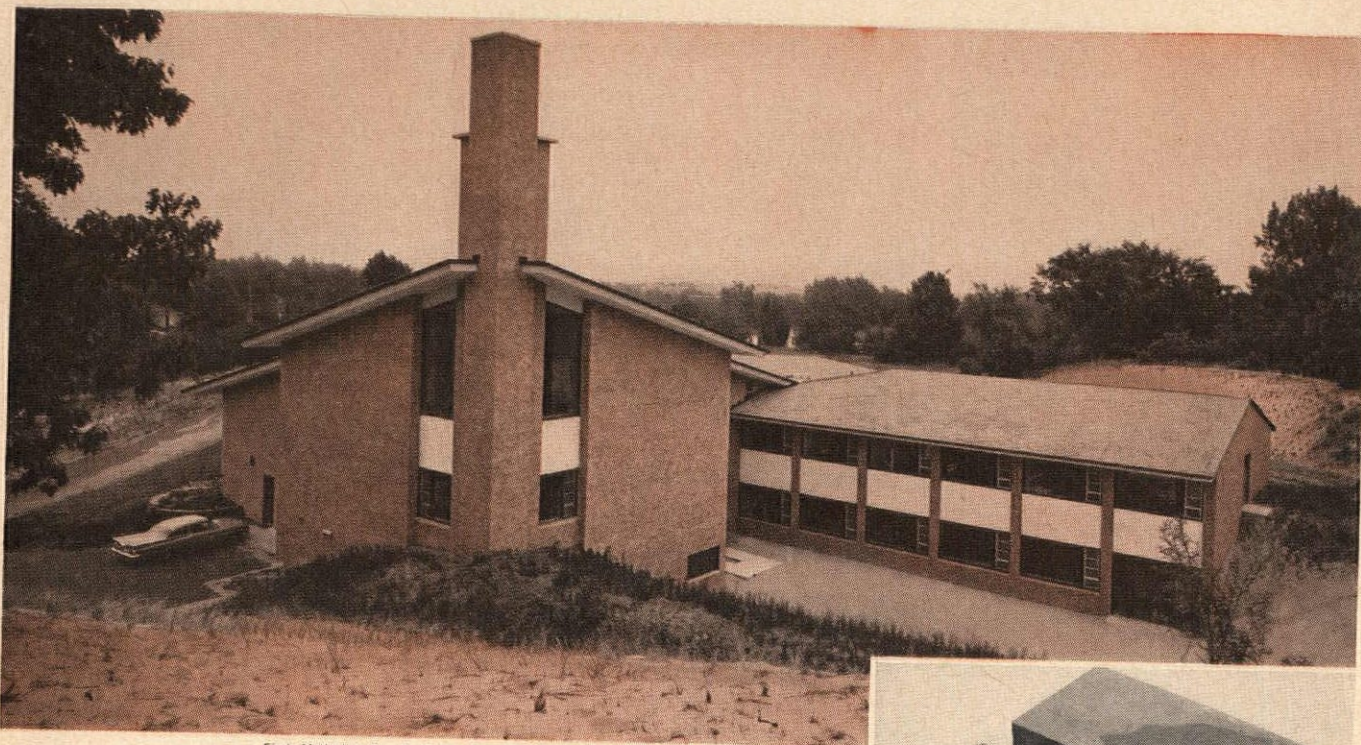
### Surface Retardant for Precast Panels

Precast panel frames for the curtain wall of New York's Banker's Trust Building are now going into place. Designed by Henry Dreyfus (Emery



**BUILDING PRODUCTS NEWS from Dow Corning**

# The enduring beauty of brick



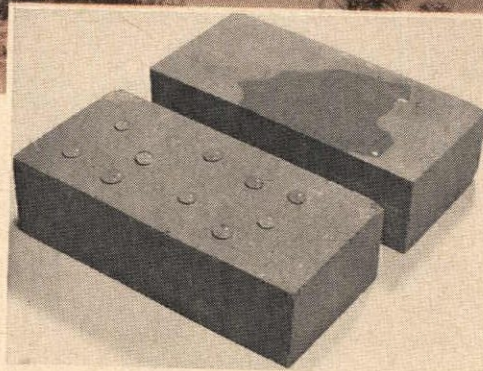
First Methodist Church of The Dunes/Grand Haven, Mich. Architect: Alden B. Dow Inc.

## **Silaneal® preserves it against efflorescence, dirt staining**

The mellow charm of the brick specified for this distinguished new church won't be marred by unsightly discoloration from dirt, rain or efflorescence. The architect's assurance: this brick was factory-treated with Silaneal, the sodium silicate treatment that so effectively helps brick repel water.

**Silaneal Preserves Your Concept** Light and pastel shades of brick are being specified more than ever before. Many such brick, however, have high suction rates and offer little resistance to water penetration. And water discolors brick by carrying dirt *into* the brick, causing its color to dull and darken; and by leaching water-soluble salts *out* of brick, causing ugly efflorescence. But Silaneal treatment slows and *controls* the absorption rate of even highest suction brick . . . dirt is kept outside, where it's rain-washed away, and efflorescence caused by leaching is minimized.

**Walls Go Up Easier, Stay Stronger** Brick treated with Silaneal don't require time-consuming soaking at the job site; water absorption rate is *already* controlled. This also permits proper mortar hydration; the fresh mortar dries more slowly, without leaving hairline shrinkage cracks at the brick-mortar interface. Transverse pressure tests—and tests simulating wind-driven rain—have demonstrated repeatedly that wall sections built



Note revealing contrast in water penetration of these two high suction rate brick. Water dropped on Silaneal-treated brick, at left, beads up without penetration. Same amount of water has spread rapidly across untreated brick, will be totally absorbed within seconds.

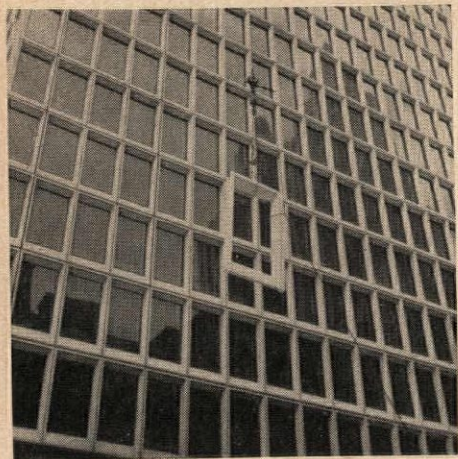
of Silaneal-treated high suction brick prove stronger and resist leakage better than similar, but untreated, brick.

**To Get More Information** Wouldn't it be wise to have on hand more detailed information about brick-improving Silaneal treatment? Just write Dow Corning, Dept. 8707, for further data including a list of brick manufacturers who supply Silaneal-treated brick.



**Dow Corning CORPORATION**  
MIDLAND, MICHIGAN





Roth & Sons, architects for the building, the building will use 1600 of the individual mitered frames. In production at Dextone Company's plant, concrete is placed in specially designed forms previously coated with "Rugasol," a surface retardant. After 18 hours, the frames are lifted out and simultaneously sluiced with water and scrubbed with a fiber brush to remove the top  $\frac{1}{8}$ " mortar which has remained plastic through contact with the Rugasol, thereby revealing the hardened buff mortar and exposed quartz aggregate. Sika Chemical Corp., 35 Gregory Ave., Passaic, N.J.

*On Free Data Card, Circle 107*

## Soundproof Louver Door

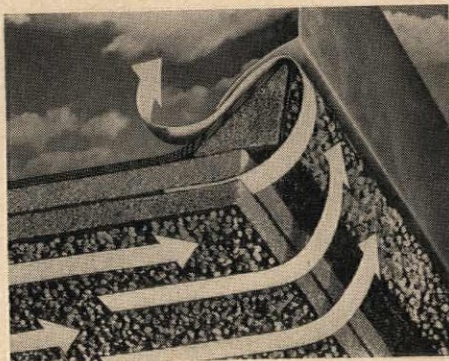
Sound insulation has now been incorporated into louver doors, in the first rated soundproof door with louvers. Pioneer's new sound barrier, when used in their hollow metal doors, reduces sound transmission to 32 db. The door is thus appropriate wherever privacy of speech, exclusion of noise, and flow of free air are required. With the sound-insulating louver door, there is no need for sound-trapped transfer ducts or wall louvers, thus eliminating both additional costs and broken wall surfaces. Pioneer Fireproof Door Co., Div. of Pioneer Industries, Inc., P. O. Box 55, Carlstadt, N.J.

*On Free Data Card, Circle 108*

## Major Development for Built-Up Roofing

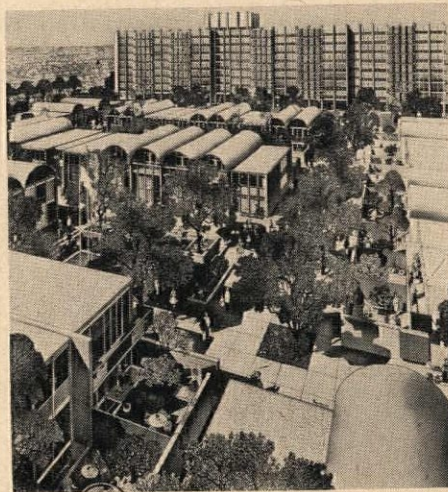
A constant problem in built-up roofing—the effect of trapped air and moisture—is solved by new "Ventsulation" roofing system from Johns-Manville. The system allows air and moisture to ventilate out of a roof assembly both during construction and throughout the life of the roof, thus eliminating blistering, cracking, and pre-

ture failure. Its two basic items are new "Ventsulation Felt" and "Ventsulation," a modified version of J-M's "Roofinsul." The felt has large mineral granules embedded on its under-surface, to separate the felt from the deck and to provide millions of tiny passages for free motion of air and moisture. Insulation units are kerfed



on all four sides, the kerfs serving to conduct air and moisture to the vent spaces at the roof edge. Ventsulation and Ventsulation Felt can be used alone or in combination. Balance of built-up roofing is installed in regular manner. Johns-Manville, Dept. V-362, 22 E. 40th St., New York 16, N.Y.

*On Free Data Card, Circle 109*



## Air Conditioning to Be Piped to Private Homes

For the first time, chilled and heated water for air conditioning will be piped to single-family homes; it will be used in the new River Park Co-operative Homes redevelopment project for Washington, D.C., designed by Charles M. Goodman Associates. A central refrigeration and boiler plant will serve 134 townhouses, as well as 385 units in an 8-story apartment building. Heating and cooling will be furnished by two Carrier 480-ton refrigeration machines and two 392-hp

boilers, to be located in the basement of the high-rise building. Compact fan-coil units will be installed in the basement of each home, and a network of ducts will carry conditioned air to each room in the 2-story homes. Carrier Corp., Carrier Parkway, Syracuse 1, N.Y.

*On Free Data Card, Circle 110*

## New Polyester Coating

A new polyester finish has been announced that has significant advantages over conventional polyester coatings in properties, application, and manufacture. Based on tetrahydrophthalic anhydride, and called "TH-PAA" for short, it gives a brilliant deep gloss immediately upon application, with little or no buffing. The coating has high impact strength and outstanding resistance to mar, moisture, and stains, making it an excellent protection for furniture and paneling. It dries tack-free at room temperature in several hours. High gloss and durability, plus excellent adhesion to steel and other metals, make it a promising coating for appliances. The wax-free polyester finish can also be used on cement blocks and masonry to give a porcelainized effect. National Aniline is offering its THPAA system as a starting formulation to any and all interested companies. National Aniline Div., Allied Chemical Corp., 40 Rector St., New York 6, N.Y.

*On Free Data Card, Circle 111*

## New Fire Ratings for Partitions

Two-hour fire resistance ratings have been earned by a load-bearing wood stud partition and a nonload-bearing steel stud partition. The first partition was faced each side with  $\frac{3}{8}$ " perforated gypsum lath. On each side, a 1", 2-gauge hexagonal wire mesh was applied using furring nails to hold the mesh about  $\frac{5}{16}$ " away from the lath; gypsum perlite basecoat plaster was applied over the lath. Total thickness including white coat finish was 1" on each side, resulting in an over-all thickness of  $6\frac{3}{8}$ ". The latter partition used  $2\frac{1}{2}$ " hollow steel studs, 16" o.c., with  $\frac{3}{8}$ " perforated gypsum lath clipped to each side of the stud. Gypsum-perlite plaster in a proportion of one to two was applied in two coats and finished in white coat. Thickness of plaster was  $\frac{3}{4}$ " from lath face; total partitions thickness was  $4\frac{3}{4}$ ". Gypsum Association, 201 N. Wells St., Chicago 6, Ill.

*On Free Data Card, Circle 112*





6224

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For more information, turn to Reader Service card, circle No. 361



## AIR/TEMPERATURE

### Concise Catalog on Heating and Cooling

Specifications and descriptions of 86 heating and air-conditioning products appear in new 8-page folder. Among the units presented are packaged and split-system air-conditioning (both air-cooled and water-cooled), heat pumps, furnaces (gas-fired and oil-fired), electric heating, electronic air purifiers, and room air conditioners. Features and data are given in brief for each unit. Literature Dept. 532, Chrysler Airtemp, Div. of Chrysler Corp., 1600 Webster St., Dayton 4, Ohio.

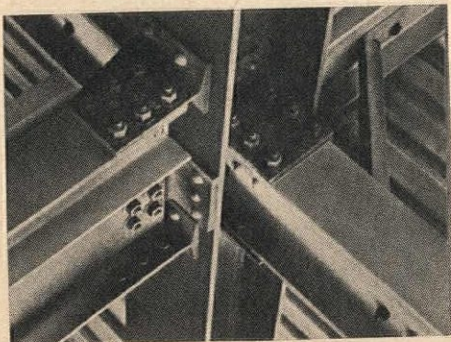
On Free Data Card, Circle 200

### Residential Baseboards

New 12-page catalog on residential baseboards is available. Six new product features are introduced in the booklet; also presented are ratings, dimensions, and details on the complete line. Information is also given on heat-loss calculation, ordering, and installation. Among the redesigned features of the baseboard are a snap-lock hanger, a noiseless expansion cradle, and a snap-in damper. Units are now available in lengths of 3', 4', 5', 6', 7', and 8'. Radiant-Ray Radiation, Inc., 464 Hartford Ave., Newington, Conn.

On Free Data Card, Circle 201

## CONSTRUCTION



### Structural Reports

First of a series of *Structural Reports* from U. S. Steel is a 14-page discussion of the United of America Building in Chicago, by Shaw, Metz & Associates, the first multi-story building in which one of the new high-strength steels furnished to ASTM A440 was used. Report describes the ways that USS "Man-Ten" (A440) and "Cor-Ten" steels were used in the

structure. Economies and other advantages are cited. The detailed structural analysis discusses design loads, allowable steel stresses, assumptions for design, typical column design with combined stresses, typical beam design with stub connection, fabrication and erection. A bibliography is included. United States Steel Corp., 525 William Penn Pl., Pittsburgh 30, Pa.

On Free Data Card, Circle 202

### Architectural Aluminum

New 24-page booklet, *Architectural Aluminum*, summarizes design considerations and engineering data important to architects working with aluminum for structural and decorative uses. Booklet describes aluminum alloys that are particularly suited to varied architectural applications—curtain-wall panels, building hardware, windows, louvers, copings and mullions, fasteners, roofing ductwork, and welded members. Properties and finishes are also discussed. Other sections are on design and selection of extrusions, and methods of cleaning and protecting. A specifications outline is included. Metals Div., Olin Mathieson Chemical Corp., 400 Park Ave., New York 22, N.Y.

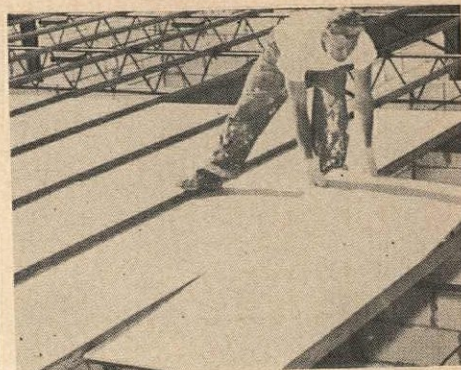
On Free Data Card, Circle 203

### Short Course in Prestressed Concrete

An 84-page handbook, entitled *Fundamentals of Prestressed Concrete Design*, has been published by PCI. The book covers the properties of prestressing steel and high-strength concrete, principals of design for flexure and shear, and interpretation of specifications and codes. Several sample problems show step-by-step procedures for both bridge and building design. Authors are Jack R. Janney and Richard C. Elstner, who have also written a previous PCI publication, and who base the new text on experience conducting many short courses in the design of prestressed concrete. Write (enclosing \$3.00) to: Prestressed Concrete Institute, 205 W. Wacker Dr., Chicago 6, Ill.

### Gypsum Roof Deck

A 14-page illustrated booklet for architects and engineers is available from the national association of gypsum roof deck contractors and suppliers. Entitled *Design Data for Poured Gypsum Roof Deck*, the book-



let gives complete design tables, plus cross-section details on walls, eaves, curbs, ridges, expansion joints, and skylights. Also included are recommendations and specifications. Gypsum Roof Deck Foundation, 1201 Waukegan Rd., Glenview, Ill.

On Free Data Card, Circle 205

### Watertight Concrete

*The Design and Specification of Watertight Concrete*, 6 pages, outlines the basic requirements for watertight concrete and describes the role of "Pozzolith" in reducing permeability, shrinkage, bleeding, and segregation. Pozzolith is essentially a water-reducing agent and plasticizer that converts a dry unworkable mix to a cohesive flowable consistency without the use of added water. The result is a strong, durable, structural concrete that is highly resistant to the penetration of water under normal circumstances. Specifications are included. The Master Builders Co., Div. of Martin-Marietta Corp., 2490 Lee Blvd., Cleveland 18, Ohio.

On Free Data Card, Circle 206

### Getting Down to Nuts and Bolts

A new 32-page edition of *Helpful Hints on Fastening with Screws, Nuts and Bolts* has been published. The booklet covers a broad range of fastening topics—proper fastener selection, torquing, correct bolt loading, tightening limitations, thread selection, factors involved in various joints, fastening in corrosive environments. Diagrams and cutaway drawings illustrate the discussion. Russell, Burdsall & Ward Bolt & Nut Co., 100 Midland Ave., Port Chester, N.Y.

On Free Data Card, Circle 207

### New Waterproof Sealant

"Compriband," an impervious waterproofing sealant produced by a patented



process of impregnating polyurethane foam with asphalt, is described in new 4-page brochure. According to the literature, "the four most wanted sealing characteristics are now available in one product." When compressed it becomes an impenetrable waterproof mass; it is compressive for insertion into preformed or existing joints; it bonds positively to contact surfaces when under compression; and its total memory and recovery create constant pressure to fill joint and maintain bond to contact surfaces. Brochure shows typical details. Pacific Sealants, 1491 Daisy Ave., Long Beach 13, Calif.

On Free Data Card, Circle 208



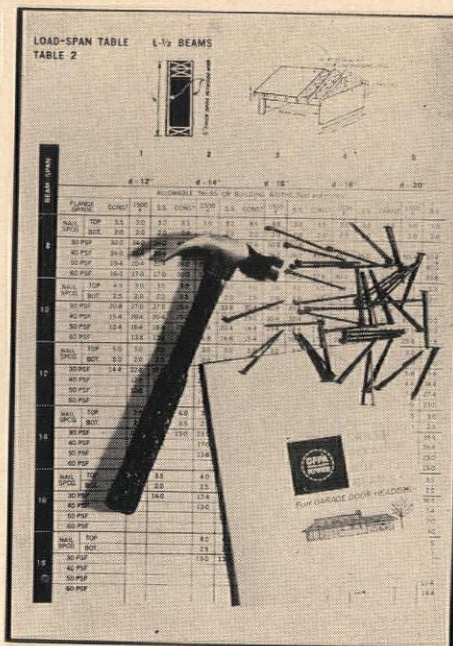
## Fully Prestressed Slabs

Following an 8-year period of research and testing, a new prestressed/precast concrete floor and roof slab has been announced. The fully prestressed units, called "Hi-Stress Flexicore," give longer clear spans and greater load-carrying capacity than the standard pretensioned Flexicore slab that has been in use for over 20 years. Available in 8" x 16" section and in lengths up to 32', the new slabs will easily accommodate roof loads on a 32' clear span, and floor loads on a 26' clear span. *Bulletin L21*, 4 pages, gives basic information and shows several installations. *Catalog L1*, 8 pages, presents the standard Flexicore system and the new Hi-Stress slabs, giving structural details, design data, and specifications. The Flexicore Co., Inc., P.O. Box 825, Dayton 1, Ohio.

On Free Data Card, Circle 209

## Nailed Box Beams

Nails are the only fasteners needed for on-site fabrication of the 360 box beams detailed in new 24-page manual DFPA developed the series of beams, ranging from 8' to 18' in length, in answer to a demand for beams that do not require glue. The beams are intended for window headers, ridge beams, and garage headers. Manual gives complete details on determining



design load and on fabricating the beams. Douglas Fir Plywood Association, 1119 A St., Tacoma 2, Wash.

On Free Data Card, Circle 210

## Gasket Samples

Sample board contains six different "Everlastic" gaskets, designed to meet all sealing requirements—isolating, protecting, cushioning, stress relieving, sealing—in a variety of building applications. Properties and compression data for each material are tabulated on the chart. Williams Seals & Gaskets Div., Williams Equipment & Supply Co., Inc., 486 W. Eight Mile Rd., Hazel Park, Mich.

On Free Data Card, Circle 211

## DOORS/WINDOWS



## Insulating Glass

New "Therm-O-Proof" insulating glass is described as "not just another insulating glass [but] a scientifically developed, fully tested insulating unit which will give many years of trouble-free service." The product is bonded with "Flex-Seal," which has adhesive

qualities such that no metal banding is required to hold the unit together. Thus there can be no metal corrosion that leads to deterioration of the seal. Therm-O-Proof has a 5-year written warranty, and is manufactured in standard sizes up to 10,000 sq in. General information and size listings are available in a 12-page bulletin. Thermoproof Glass Co., Subsidiary of Shatterproof Glass Corp., 4815 Cabot Ave., Detroit 10, Mich.

On Free Data Card, Circle 212

## Entrance Packages

Kawneer Entrance Manual, 28 pages, describes the latest in entrance packages utilizing swing or sliding doors; it explains door construction, concealed and regular closers, automatic operators, panic devices, and hardware. Frame and hardware options are defined for the various standard entrances, sliding doors, and "Duty-Rated" packages. Details and specifications are included. Advertising Dept., Kawneer Co., 1105 N. Front St., Niles, Mich.

On Free Data Card, Circle 213



## Double Dome Redesigned

Bulletin, 4 pages, presents the new and improved "Twin Dome" by Wasco—"the first totally proven dome-with-in-dome daylighting design." The redesigned skylight is the first daylighting product with both inner and outer domes of shatterproof, weatherable acrylic. Both domes are permanently bonded to an aluminum nailing flange by a new field-tested sealant. Bulletin describes these and other features, shows the results of rigid tests, and pictures a typical installation accom-



# Get 40% greater carrying capacity with Ceko's new "H" series joists

Loading for "J" and "LA" series also increased

You have more design freedom with the new Steel Joist Institute approved "H" series open-web steel joists . . . heavier loads can be carried on greater spans at little additional cost.

High strength alloyed steel, produced in Ceko's own modern mill, is used in the fabrication of Ceko "H" series joists. One happy result is that you can place *up to 40% heavier loads* on the extreme spans. For example:

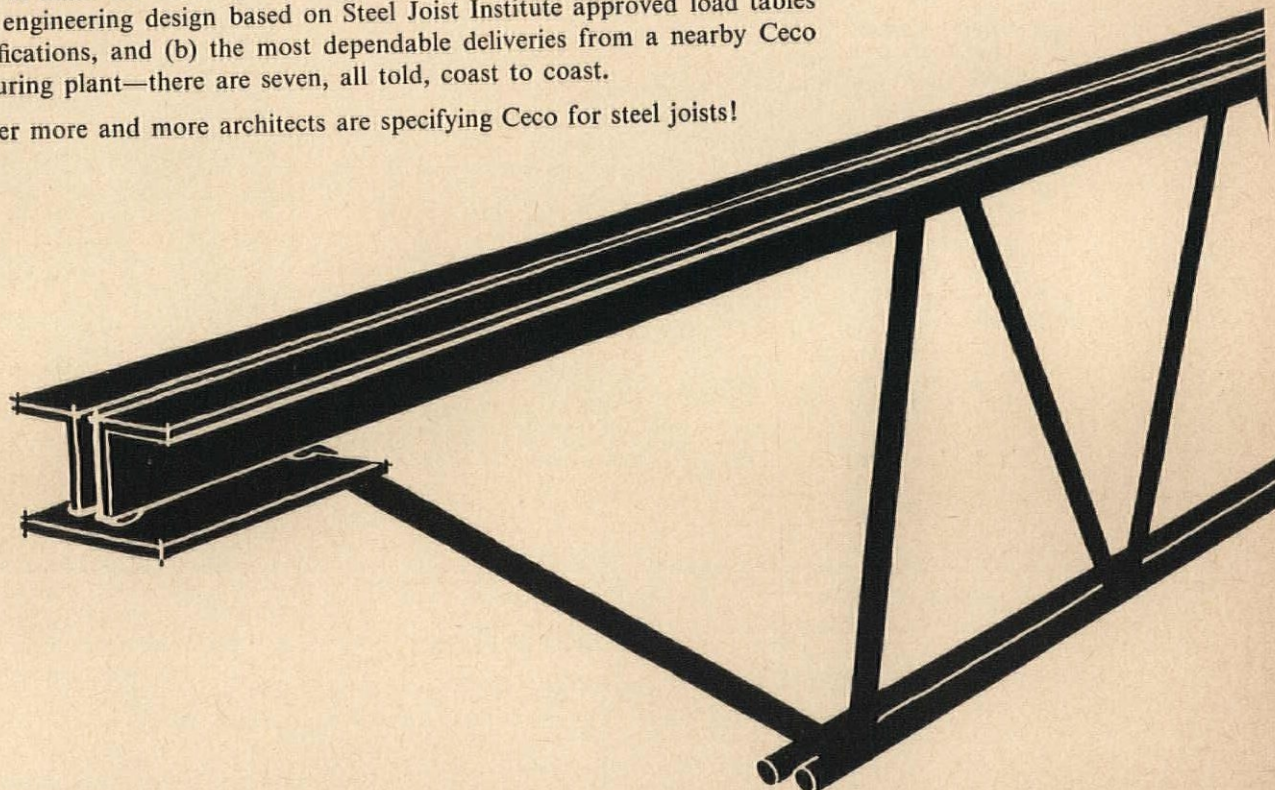
- a 24H8 joist can carry 207 lbs per lineal ft at 48 ft, whereas the old 24S8 joist carries only 145 lbs at that span. Or . . .
- the limit load carried by a 24S8 joist on a 40 ft span can now be carried safely by a 24H8 on a 48 ft span.

Carrying capacities of the "J" series and "LA" series joists have been increased up to 10% by use of A36 steel.

Thus, complete design flexibility can be yours by using Ceko open-web steel joist construction. Ceko's "H", "J", and "LA" series joists include 158 standardized types having clear spans up to 96 feet.

And keep in mind the Ceko "plus" advantages which benefit the whole building team: (a) engineering design based on Steel Joist Institute approved load tables and specifications, and (b) the most dependable deliveries from a nearby Ceko manufacturing plant—there are seven, all told, coast to coast.

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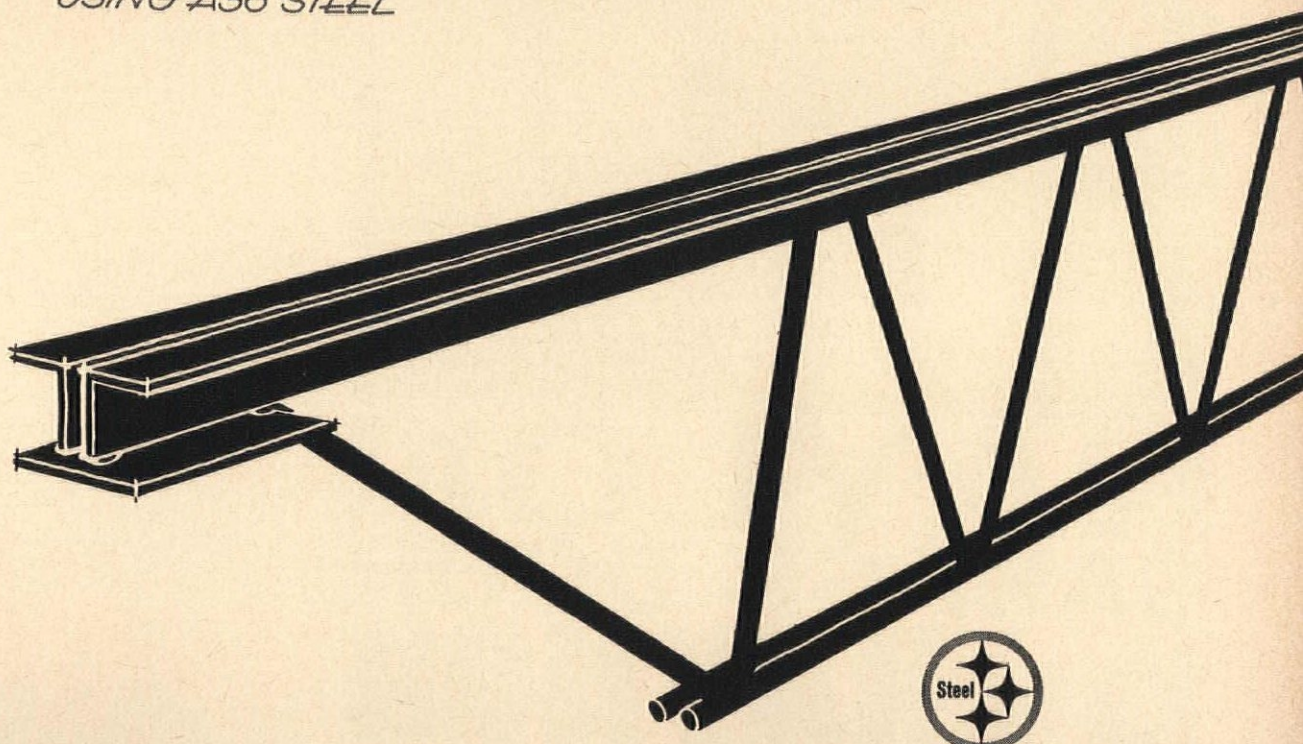


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30,000 PSI TENSILE WORKING STRESS  
USING NEW CECO HIGH STRENGTH STEEL*

*NEW "J" & "LA" SERIES JOISTS*

*36,000 PSI MINIMUM YIELD STRENGTH  
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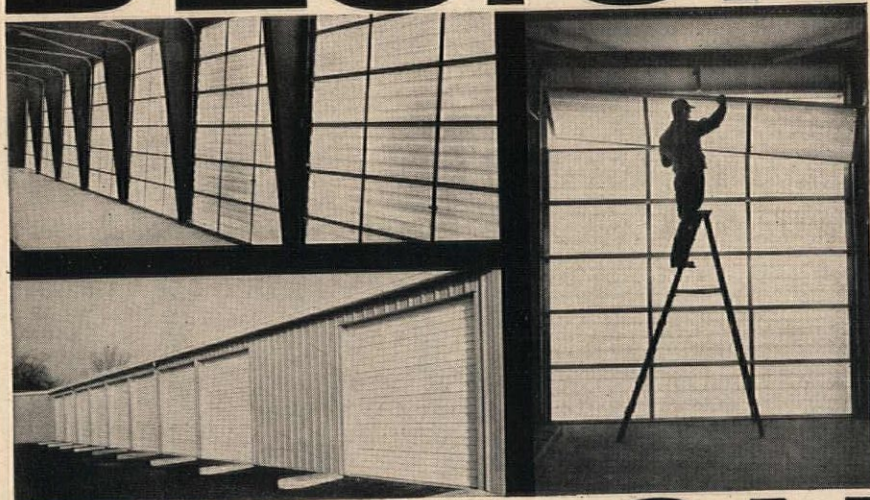
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# NEW BOON TO ARCHITECTURAL DESIGN



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*Continued from page 95*

published by two men in less than 15 minutes. Wasco Products Dept., Subsidiary of American Cyanamid Co., 5 Bay State Rd., Cambridge 38, Mass.

*On Free Data Card, Circle 214*

### Industry Standard for Aluminum Screens

New *Commercial Standard CS 240-61* on aluminum tubular-frame screens provides an industry-wide measure of product quality comparison and establishes minimum acceptable standards. One provision is that the newly established minimum thickness for framing sections must be legibly imprinted along the full length of the sections. Screen Manufacturers Association, 110 N. Wacker Dr., Chicago 6, Ill.

*On Free Data Card, Circle 215*

### Power-Operated Refrigerator Doors

"Electroglide" power-operated refrigerator doors are illustrated in new 8-page brochure. The doors slide horizontally, provide instant automatic opening and closing, and are the first electrically powered refrigerator doors to obtain the UL seal of approval. Booklet describes features that make for safety, convenience, economy, and fast operation. In addition, wall-space requirements, sizes, and specifications are given. Jamison Cold Storage Door Co., Hagerstown, Md.

*On Free Data Card, Circle 216*

### ELECTRICAL EQUIPMENT

#### Lighting Units for Hazardous Locations

Specially designed lighting units, with maximum lighting efficiency and excellent protection in a variety of hazardous locations, are described in a new bulletin entitled *Protected Lighting*. Catalog illustrates explosion-proof fixtures, dust-tight units, and various water-tight and vapor-tight units. Complete specifications and data on the full line are given in the 20-page catalog. Benjamin Div., Thomas Industries Inc., 207 E. Broadway, Louisville 2, Ky.

*On Free Data Card, Circle 217*

#### Fluorescent Ballasts

*What You Need to Know about Fluo-*





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Punch it, poke it, crunch it. . . Moistop resists rips or tears under all kinds of job-site beating, assures an impenetrable barrier (perm rating 0.15) against moisture migration through floors — forever! Combines the inertness of polyethylene film with the toughness of reinforced Sisalkraft. Comes in 1,200 sq. ft. rolls 72", 84", and 96" wide, lays down fast over areas prepared for concrete slabs on grade or basement floors and crawl spaces in homes. Exceeds FHA Minimum Property Requirements. Check complete specifications in SWEET'S Architectural File, 8h/AM. For sample, write: American Sisalkraft Company, Attleboro, Mass.

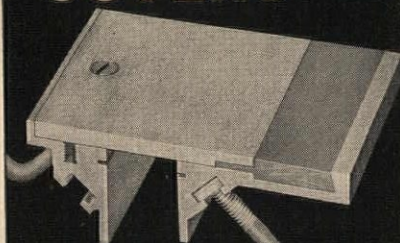
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## Aluminum EXPANSION JOINT COVERS



This is the new E-L Expansion Joint Cover—available in a range to answer all requirements for floors, ceilings, and interior or exterior walls.

E-L covers, of fine quality extruded aluminum, are exceptionally sturdy, strong, and efficient. They are well-made. And they give a trim look to interiors and exteriors.

At the same time, they afford the particular economies synonymous with modern aluminum extrusions. A low first cost, a long range savings in long life and little upkeep.

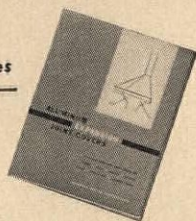
E-L covers are supplied for 1", 1½", and 2" expansion or contraction. Their efficiency is underscored by the design concepts hinted at in the cut-away above. But consider these features too:

**PATTERNS:** Plain plate shown; four different patterned plates and special abrasive plates also available.

**MATERIALS:** All members extruded aluminum. Abrasive plates have aluminum oxide particles embedded in surface. Filler strips of abrasive-resistant extruded vinyl. Aluminum anchors self-locking and adjustable for desired centers.

**FINISHES:** Mill or beautiful satin finish. An array of color finishes too, selected to harmonize pleasingly with tile or terrazzo.

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*rescent Ballasts.* 16 pages, contains basic information on the operation of ballasts and their proper installation in fluorescent-lighting systems. Among the topics discussed are: fluorescent lamp types, ballast function, the three basic ballast circuits, industry specifications and standards, the effect of heat on ballast life, the problem of ballast sound, and the prevention of undesirable ballast failure conditions. A recommended ballast specification form is provided. *Ballasts for Fluorescent Lamps: Ratings and Data*, 24 pages, contains complete descriptions and data on GE's full line. General Electric Co., Schenectady 5, N.Y.

On Free Data Card, Circle 218

## Metering Equipment

Complete line of meter centers and accessories for multi-metering applications is covered in new 16-page *Metering Equipment*. According to the manufacturer, this is the first time that meter centers for every application in separately metered multiple-unit buildings (such as apartment houses and office buildings) have been available from a single source. Bulletin provides photos, layouts, dimensions, and tables on new wall-mounted meter centers, new free-standing metering switchboard lines, as well as on other equipment. I-T-E Circuit Breaker Co., P.O. Box 2384, Station D, Atlanta, Ga.

On Free Data Card, Circle 219

## New Concept for School Stages

A fresh concept of stage lighting and control equipment for schools and similar applications is presented in *New School Stages for Old*. The "Modified Proscenium Stage Plan" shown here was devised by James Hull Miller, theater designer. In this 24-page bulletin, he describes the basic idea and its merits, gives a typical layout, and discusses the background projection system and scenic design for the space stage. Hub Electric Co., Inc., 2255 W. Grand Ave., Chicago 12, Ill.

On Free Data Card, Circle 220

## FINISHERS/PROTECTORS

### Vinyl Coatings

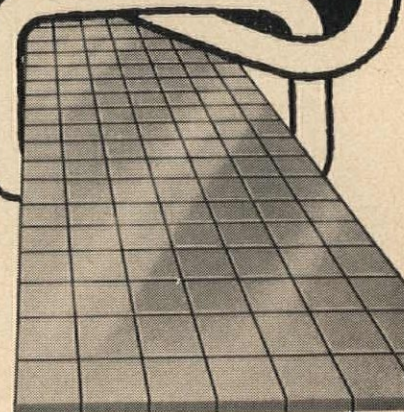
Properties and fields of application of "BFC Vinyl Coatings" are noted in new 4-page brochure. An exposure-resistance chart (based on 20 years of experience with vinyl coatings for

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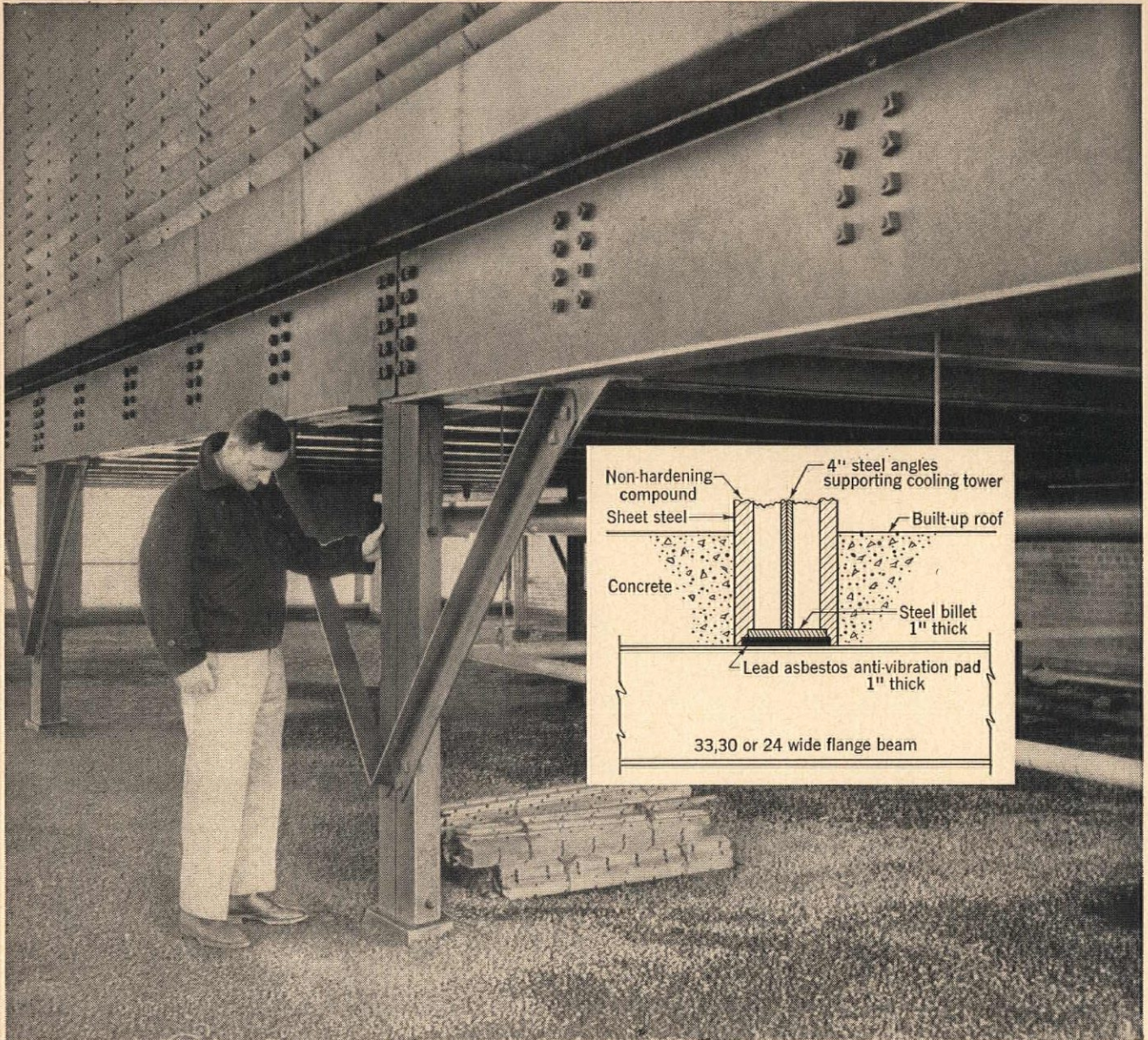


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## Machine vibration tamed with feet of LEAD

Give machinery in motion lead asbestos pads to stand upon, and a designer may have noise and vibration problems quickly under control. An example is the air-conditioning unit atop the new 35-story skyscraper at 575 Lexington Avenue, New York. Here lead asbestos pads just one inch thick, placed between the cooling tower and the building's structural steel, cushion the wide spectrum of noise and vibration created by the 205,000-pound unit and confine it to the tower.

This use of lead asbestos also saved

considerable time and money. Pads and supporting columns for the tower were positioned while major steel work was in progress. It was not necessary, as with usual methods, to wait until the concrete roof slab had been poured.

If you have a vibration or noise problem, perhaps the solution lies in one of the many forms of lead. We'd be more than pleased to help you find it. Write to: Lead Industries Association, Inc., Dept. N-7, 292 Madison Ave., N. Y. 17, N. Y.



*Look Ahead with Lead*

**LEAD INDUSTRIES ASSOCIATION, INC.**

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metal, masonry, wood, and plastics) shows the relative degree of protection afforded by BFC products against the corrosive action of 48 acids, salts, alkalis, gases, and solvents. Concise step-by-step instructions are given for the proper application of vinyl coatings on various substrates. Better Finishes & Coatings Co., Broad St. and Hepburn Rd., Clifton, N.J.

On Free Data Card, Circle 221

## Pool Painting Specs

Complete application data on epoxy pool coatings is contained in 8-page *Guide to Engineered Pool Painting Specifications*. Prepared for architects and engineers, the bulletin gives data for paintings all types of pools—poured concrete, sprayed concrete, steel, and aluminum. Repainting specs are also provided. The Kelley Paint Co., 1445 S. 15 St., Louisville 10, Ky.

On Free Data Card, Circle 222

## Anodic Coating for Architectural Aluminum

New 12-page standard covers quality requirements and conformance tests

for anodically coated aluminum alloys used in architectural applications. This is the first time such a standard has been developed and issued on an industry basis. The standard covers both maintained and unmaintained surfaces. Four appendices deal with preparation of quality-control test specimens, stain test, mortar test for clear lacquers, and methods for measuring thickness of anodic coatings. Write (on letterhead to: The Aluminum Association, 420 Lexington Ave., New York 17, N.Y.

## INSULATION

### Acoustical Materials

1962 edition of *Sound Absorption Coefficients of Architectural Acoustical Materials* features information in three new categories. 1), Flamespread classifications are included for the first time. 2), Fire-resistance data of ceiling acoustical materials, measured in hours, has been noted for a few products in the past two years. This year, the number of products included with such ratings has grown to 39,

and two summary tables have been included for convenient reference. 3), Ceiling-attenuation factors are given for 77 products. Other information provided in the bulletin includes noise-reduction coefficients, recommended specification range of the materials, mounting requirements, size, weight, thickness, and light reflectance. Write (enclosing \$.50) to: Acoustical Materials Association, 335 E. 45 St., New York 17, N.Y.

## SANITATION/PLUMBING

### Stainless-Steel Sinks

New 8-page *Catalog NP-3* has been issued by Elkay, largest producer of stainless-steel sinks in the world. Highlight of the catalog is the new "Cuisine Console," which features for the first time a built-in light source, built-in spray in the faucet, convenient electrical outlets, and other innovations. Another section is devoted to the complete "Cuisine Centre" line. Elkay Manufacturing Co., 2700 S. 17th Ave., Broadview, Ill.

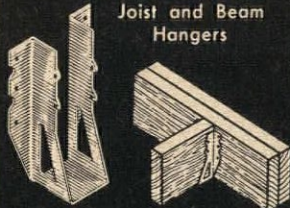
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**TECO**

The Standard of Excellence In Wood Fastenings

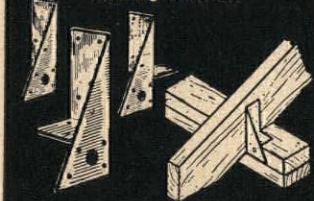
### TECO-U-GRIP

Joist and Beam Hangers



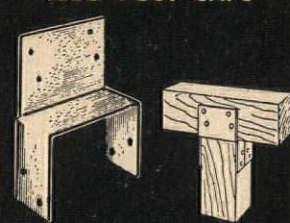
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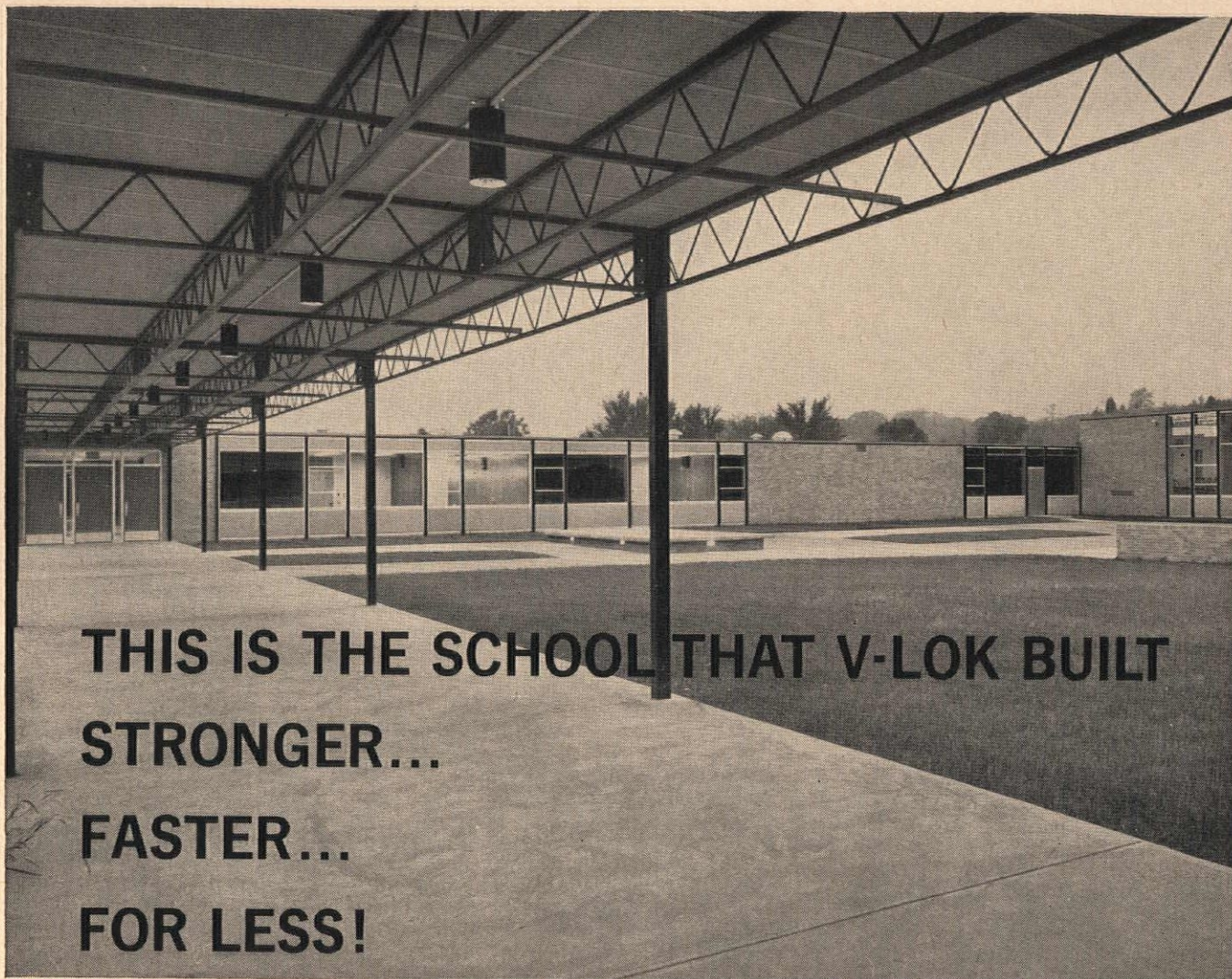
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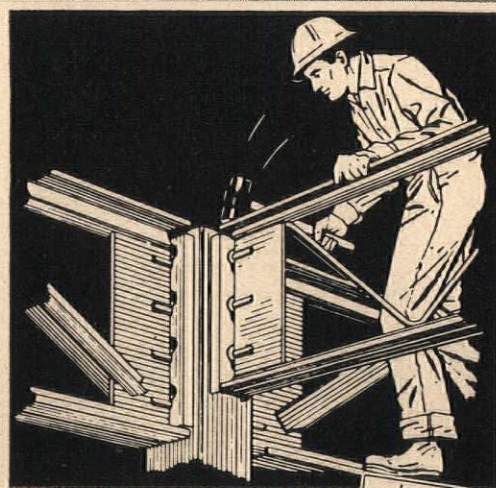


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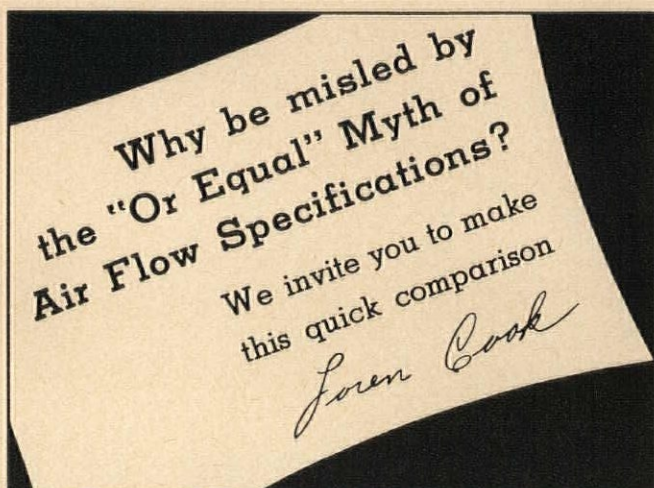
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VP-27



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All aluminum blower wheels	✓	
All aluminum power assembly on belt driven models	✓	
Sealed, prelubricated, rubber mounted bearings	✓	
Variable pitch driver sheaves on belt driven models	✓	
One piece all aluminum curb cap	✓	
Watertight conduit integral part of unit	✓	
All motors with "Sealed for Life" lubrication feature	✓	
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.080-.125 ga. aluminum motor plates	✓	
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Patented storm band and drain on wall unit	✓	
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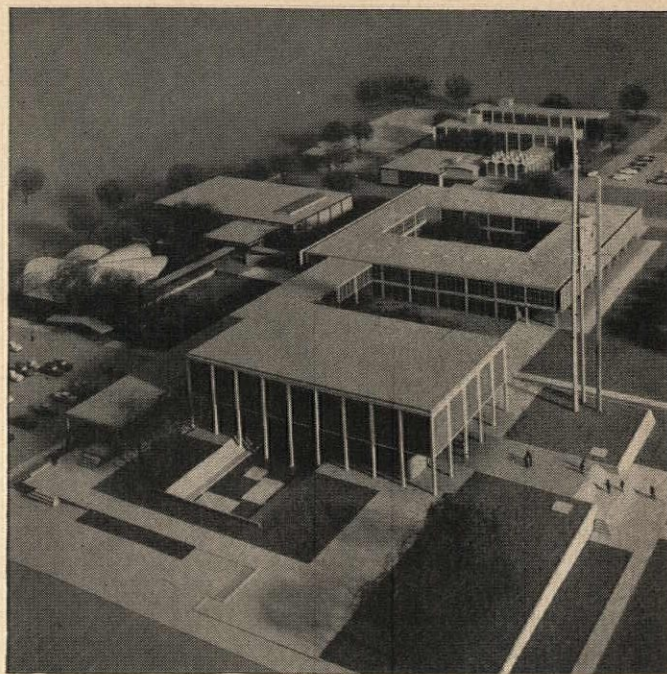


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# IP&S

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### HEAD OF THE CLASS

### AT HOCKADAY SCHOOL

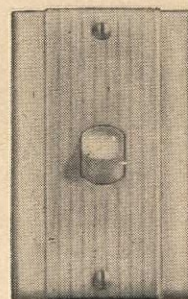
In modern, spacious Hockaday School in Dallas, Texas, 20 ampere Rocker-Glo switches control the lighting in all areas.

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BOSTON CHICAGO LOS ANGELES SAN FRANCISCO

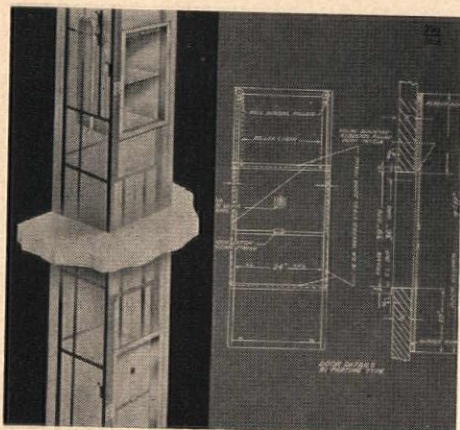
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## SPECIAL EQUIPMENT

Catalog and Guide for  
Hospital Casework

New 80-page book is designed both as a catalog of hospital casework and as a guide to building and remodeling for every type of patient care. A number of innovations in equipment arrangement and use are seen in the cabinets, casework, and wardrobes. Many floor plans in *Catalog 627* give assistance in the planning of hospitals, nursing homes, homes for the aged, sanitariums, and clinics. Write (on letterhead) to: Maysteel Products, Inc., 800 Horicon St., Mayville, Wis.



## Vertical Lifts

Catalog, 12 pages, describes the complete line of Matot vertical lift equipment. Various types of electric dumbwaiters are illustrated: record carriers, book lifts, money lifts, and mail carriers. The catalog also shows hand-operated units that can be economically converted to electric operation in the future. Freight elevators, hand-operated, are described. For each unit, the catalog gives dimensions, engineering data, and operating features. Specifications and installation details are included. D. A. Matot, Inc., 1533 W. Altgeld St., Chicago 14, Ill.

On Free Data Card, Circle 224

## Bathroom Cabinets

1962 line of bathroom cabinets, mirrors, and accessories is illustrated in new 32-page catalog. All models manufactured by Miami-Carey are shown, including mirror-cabinet combinations, recessed and surface cabinets, and cabinets and mirrors for hotel-motel use. Photos of the units are accompanied by specifications and typical installation drawings. Miami

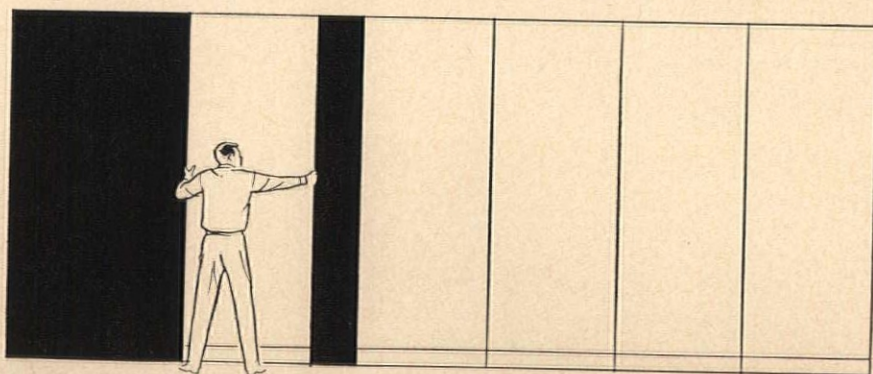
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Cabinet Div., The Philip Carey Manufacturing Co., Middletown, Ohio.  
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## SURFACING MATERIALS



### Particleboard under Floor Coverings

A new guide to installing particleboard and floor coverings is now avail-

able. The application instructions, which include step-by-step details both for an advanced method of gluing the underlayment and for conventional nailing (and stapling), apply specifically to the firm's "Versaboard" particleboard. Weyerhaeuser guarantees performance of its underlayment when so installed. Weyerhaeuser Co., P.O. Box 138, Tacoma, Wash.

On Free Data Card, Circle 226

### Hardboard Panels with Plastic Finish

*Quick Facts about Marlite* is a new reference folder containing color swatches, descriptive literature, and technical information on the complete line of Marlite plastic-surfaced hardboard. Actual samples illustrate a variety of patterns and panel types. Of particular interest is "Korelock," a rigid hollow-core panel that reduces installation time to a minimum. Specification sheets and the 1962 Marlite catalog are included in the folder. Marsh Wall Products, Inc., Dover, Ohio.

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### Tasteful Line of Vinyl Wallcoverings

One of Sweden's leading producers of vinyl wallcoverings, Galon AB, has just introduced a tasteful line of these fabrics to the U.S. Trademarked "Scan-Designs," the wallcoverings have many excellent qualities: they are waterproof, hard-wearing, and washable; resistant to fire, mildew, and stains; will not fade, split, or shrink. Five folders of samples show the five patterns, with swatches illustrating the complete range of handsome and subtle colors. The five patterns are a homespun open-weave texture, linen, grasscloth, leather, and wood. Galon Fabrics, Inc., 281 Fifth Ave., New York 16, N. Y.

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## PROGRESSIVE ARCHITECTURE NEWS REPORT

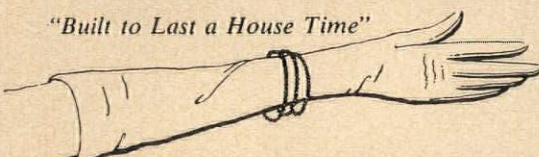
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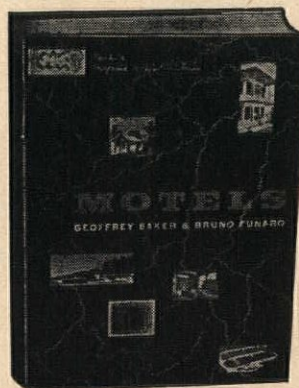
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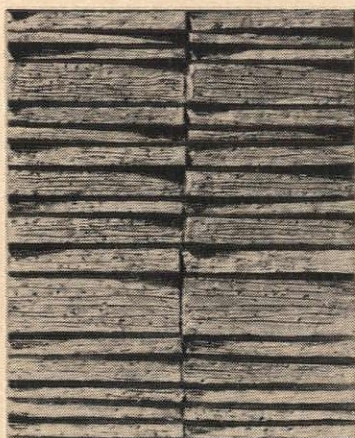
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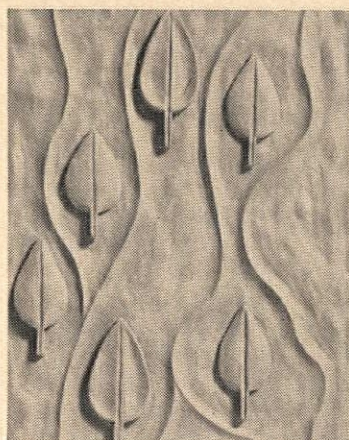
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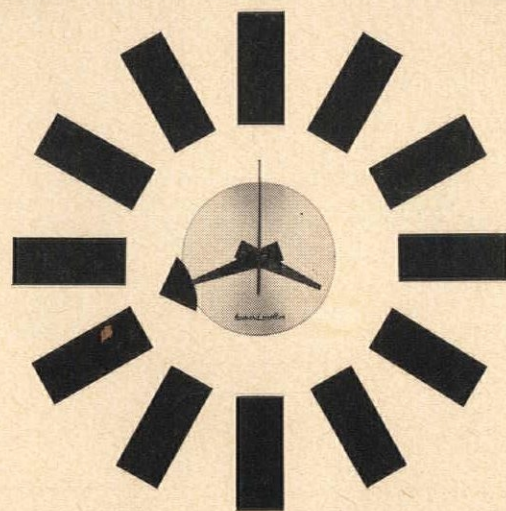
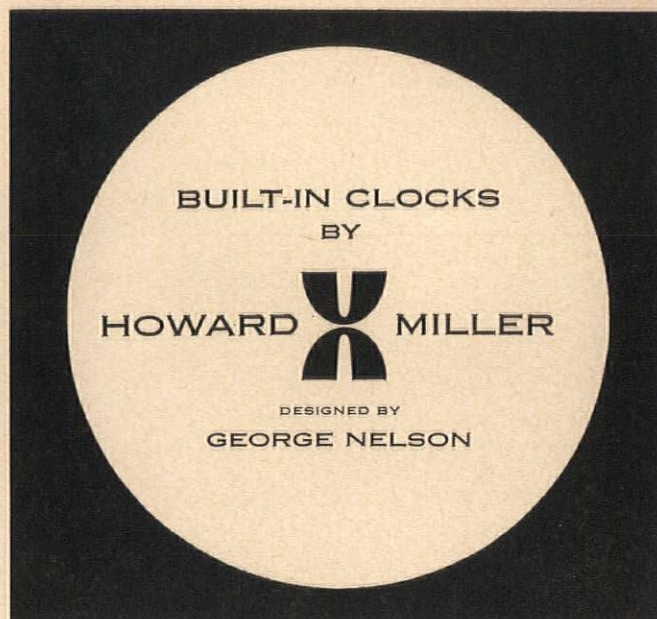
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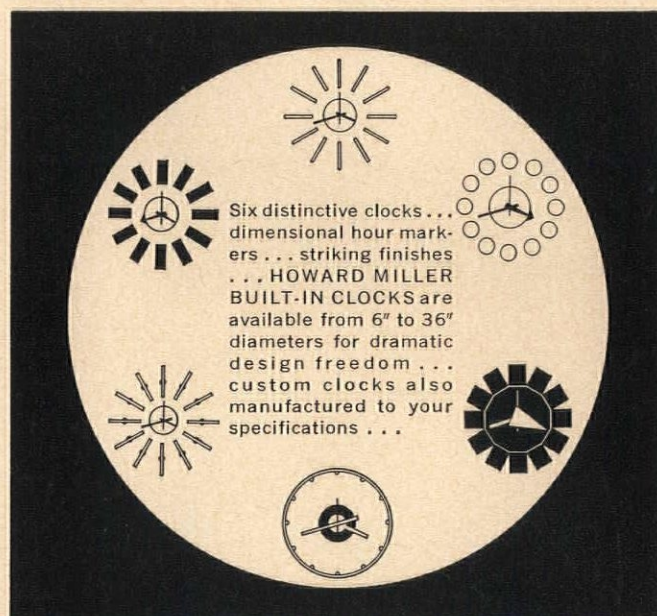
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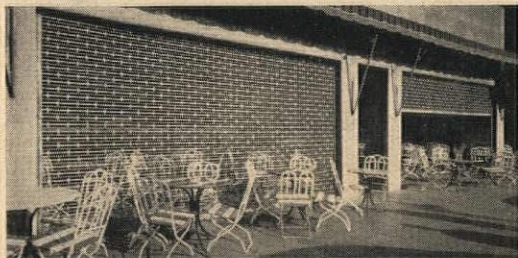
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